JVC®

NETWORK PACK STARTUP GUIDE

KA-DV350U   INSTRUCTIONS

JVC®
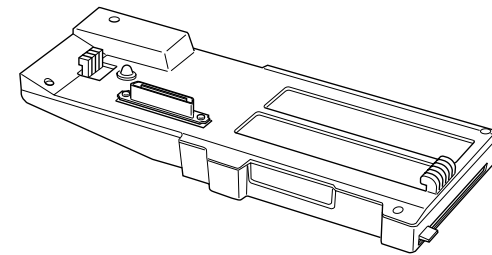
VICTOR COMPANY OF JAPAN, LIMITED

For Customer Use:
Enter below the Serial No. which is located on the body. Retain this information for future reference.

Model No.   **KA-DV350U**

Serial No.

This instruction book is made from 100% recycled paper.
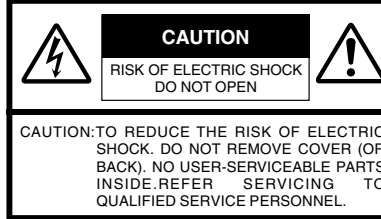
LST0207-001A

LST0207-001A

IMPORTANT SAFEGUARDS

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water .

6. Clean only with a damp cloth.

7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Only use attachments/accessories specified by the manufacturer .

10. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over .

11. Unplug this apparatus during lightning storms or when unused for long periods of time.

12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally , or has been dropped.

PORTABLE CART WARNING
(symbol provided by RETAC)

S3126A

FOR USA AND CANADA

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE.REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash wish arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION FOR USA

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmfull interfrence to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
CAUTION
CHANGES OR MODIFICATIONS NOT APPROVED BY JVC COULD VOID USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS : (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION

Information for USA
This device complies with part 15 of the FCC Rules. Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

INFORMATION (FOR CANADA)
This Class B digital apparatus complies with Canadian ICES-003.

RENSEIGNEMENT (POUR CANADA)
Cet appareil numérique de la Class B est conforme á la norme NMB-003 du Canada.

Safety Precautions

Thank you for purchasing this product.
(These instrustions are for KA-DV350U)
Before beginning to operate this unit, please read the instruction manual carefully in order to make sure that the best possible performance is obtained.

> Due to design modifications, data given in this instruction book are subject to possible change without prior notice.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOIS-TURE.

AVERTISSEMENT:
POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTRO-CUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

POWER SYSTEM
Connection of POWER supply
The power for the network pack is supplied through the camera that is connected to the network pack.

This equipment is in conformity with the provisions and protection requirements of the corresponding European Directives. This equipment is designed for professional video appliances and can be used in the following environments:

• residential area (in houses) or rural area
• commercial and light industry; e.g. offices or theatres
• urban outdoors

In order to keep the best performance and furthermore for electromagnetic compatibility . Use the PC Card which acquired a CE mark.

Caution

Where there are strong electromagnetic waves or magnetism, for example near a radio or TV transmitter, transformer, motor, etc., the picture may be disturbed. In such case, please keep the apparatus away from the sources of the disturbance.
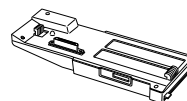
Contents

* The names of other manufacturers and their products mentioned in this document may be the trademarks or registered trademarks of their respective owners.
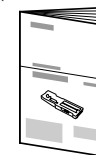In this document, symbols like ™, ®, ©, etc. have been omitted.

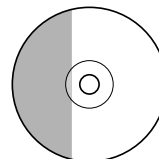## Product Components

Network Pack
KA-DV350

Network Pack Startup Guide
(This document)

Adapter for encoding/decoding video/audio data by connecting to GY-DV300.

This document describes the basic instructions for use of the Network Pack.

CD-ROM

The following software and these Instructions are included on the provided CD-ROM.

• Streamproducer Software
  Software used for distributing movies on a network.
• Network Pack User 's Guide (pdf)
  Reference guide for the Network Pack.
• User's Guide (pdf) to "Streamproducer" – the software for network distribution.
  Software for live broadcasting and distribution on networks.

> Setting of the KA-DV350 is performed on the menu screen of the GY-DV300 camcorder.
> For details on the setting methods, please see the Network Pack User 's Guide (pdf) included on the provided CD-ROM.
> **CD-ROM\ENU\Network Pack User 's Guide (pdf)**
>
> When the Streamproducer program included on the provided CD-ROM is installed, the Network Pack User's Guide (pdf) is automatically installed on the PC and added to the Start menu.
> **[Start/Programs/KA-DV350U/User 's Guide]**
>
> The Adobe Reader is required to view PDF files.

Features

- By connecting the KA-DV350 to GY-DV300, video/audio of camera or of tape playback can be encoded/decoded in realtime. Video data is converted to MPEG-4 and audio data is converted to G726 or μ-Law.
- Installing a LAN-card in the PC card slot enables real-time streaming.
- Installing a Compact Flash card in the PC card slot enables real-time capturing.
- Network distribution of the video/audio file created by the KA-DV350 is possible when the "Streamproducer" program included on the provided CD-ROM is installed on the PC.

Precautions

- Be sure to turn the camcorder 's power supply OFF before the KA-DV350 is attached to the camcorder.
- Be sure to turn the camcorder 's power supply OFF before inserting or removing CF (Compact Flash) cards, etc., into and from the camcorder . Inserting or removing cards while the camcorder 's power supply is turned ON can result in corruption of the recorded sections of the card or damage to the card itself.
- The KA-DV350 accepts the following cards for which operation has been confirmed:

Wired LAN card	EA2906 194 Revision C*1 (Manufacturer: Socket Communications Inc.) *2 PCM100 (Manufacturer: LINKSYS) FA411 (Manufacturer: NETGEAR)
Wireless LAN-card	WLI-CF-S11G (Manufacturer: BUFFALO INC.) WLI2-CF-S11 (Manufacturer: BUFFALO INC.) WCF11 (Manufacturer: LINKSYS) *3 TEW-201PC (Manufacturer: TRENDware international Inc.) TEW-202CF (Manufacturer: TRENDware international Inc.) AIR-PCM352 (Manufacturer: Cisco Systems, Inc.)
CF (Compact Flush) card	SDCFB-16-801 (Manufacturer: SanDisk Corporation) *2 SDCFB-32-801 (Manufacturer: SanDisk Corporation) *2 SDCFB-64-801 (Manufacturer: SanDisk Corporation) *2 SDCFB-128-801 (Manufacturer: SanDisk Corporation) *2 SDCFB-256-801 (Manufacturer: SanDisk Corporation) *2

*1: The Revision designation is indicated on the label fixed to the package.

*2: Use PCMCIA card TYPE 1 or TYPE 2 adapter.

*3: Use PCMCIA card TYPE 2 adapter.

Do not use other cards that those for which operation has been confirmed. Improper installation may cause damage to the KA-DV350.
(For the latest cards for which operation have been confirmed, please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.)

Precautions (cont'd)

Streamproducer Operating Environment

- Under the following conditions, the Streamproducer can be used in the required operating environment.
  - When using 1 camera or 1 file.
  - When recording of the camera image is not performed.
  - When switched distribution is not performed.

Required operating environment

● Hardware

CPU	Pentium III 700 MHz
Memory	128 MB
Display	XGA (1024 X 768)
Hard disk	• 50 MB for installation • 1 hour viewing time requires empty hard disk space equivalent to 25 MB (high compression) to 200 MB (low compression).
Network	• 1 LAN system for connecting the network pack • Internet connection to download codec program for playback of moving pictures • Other network environment for distribution if distribution is to be performed in other environment than that described above

● Software

OS (English)	WindowsXP Home Edition WindowsXP Professional Windows 2000
Player software	Windows Media Player 7.01 or Windows Media Player 8 If Windows Media Player 9.0 is used, some functions of the Streamproducer may be restricted.

- When using multiple cameras or files, the following operating environment is recommended in order to make full use of the application's functions.

Recommended Operation Environment

● Hardware

|	
CPU	Pentium 4, 2.2 GHz or higher
Memory	512 MB or more
Display	SXGA (1280 X 1024) or more Other operating environment demands are the same as the required operating environment demands.

Memo

The described required operating environment and recommend operating environment are both meant as guidelines to ensure optimal use of the application but are not meant as guarantee of operation. Also, even if you use a computer that complies with the operating environment, optimal use of the application may not be obtainable due to the configuration of your system.
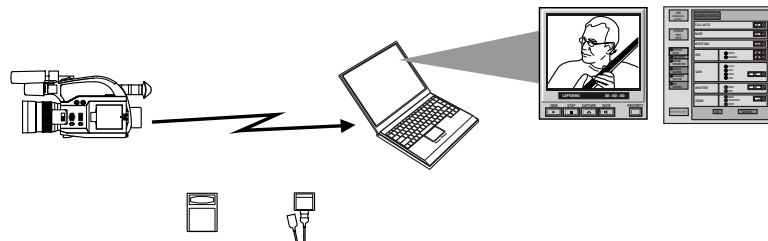
Sending camera video/audio by email using CF (Compact Flash) card

INTERNET
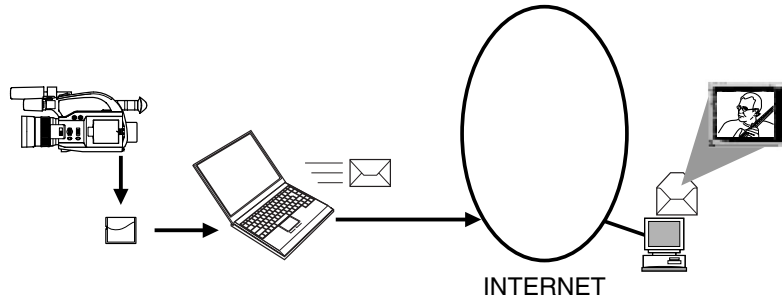
1. Recording the camera images data to a CF card by using the KA-DV350.

2. Sending an image file stored on a CF card as an e-mail attachment file.

Viewing and storing camera video/audio with your PC.

1. Using the KA-DV350 to transfer the camera images data to a PC.

2. Using Streamcapture for viewing and/or storing the camera images data on a PC.

Controlling the camera with computer
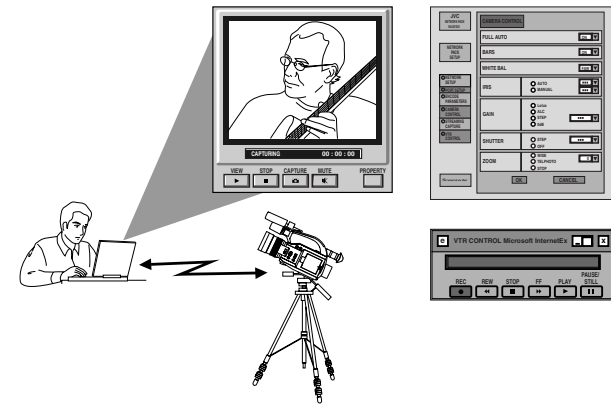
Camera settings and VTR control can be performed using a notebook computer .

Receiving/Distributing the camera video data via LAN
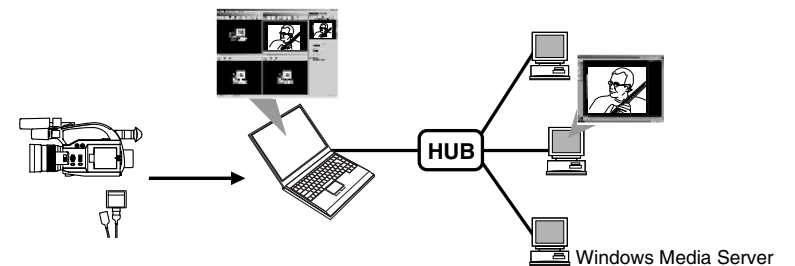
HUB

Windows Media Server

1. Using the KA-DV350 to transfer the camera images data to a PC

2. Using Streamproducer to redistribute the camera images data transferred to the PC
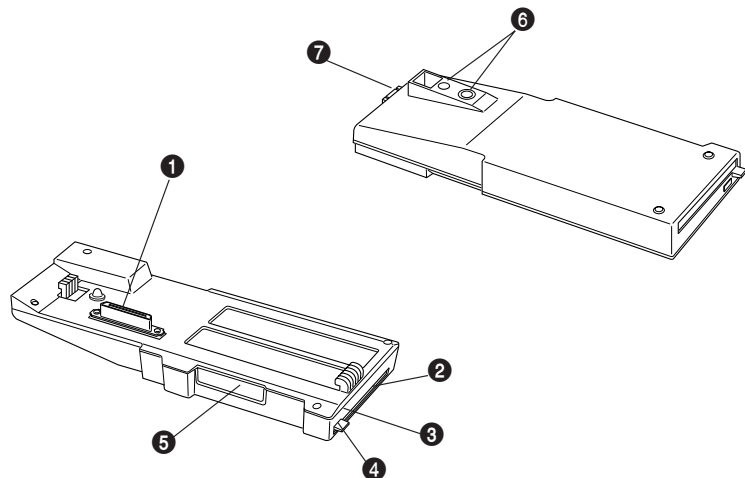
3. Using Windows Media Player to view the distributed camera video data on a PC

Controls, Connectors and Indicators

❶ **Camera connection terminal**
To connect the DV camcorder (GY-DV300). (☞See page 9 "How to Attach")

❷ **PC card slot**
To insert a LAN card, Compact Flash card, etc.

❸ **Access lamp**
This lamp lights when the card is in use.

❹ **Guard**
Guard to prevent the card from being inadvertently ejected.

❺ **Service terminal.**
Do not use this terminal.

❻ **Camera mounting screw holes** (1 /4 inch)
To mount the KA-DV350 and the GY -DV300 on a camera tripod.

❼ **Release button**
Press this button to remove the KA-DV350 from the GY-DV300.

How to Attach

Cover

Release button
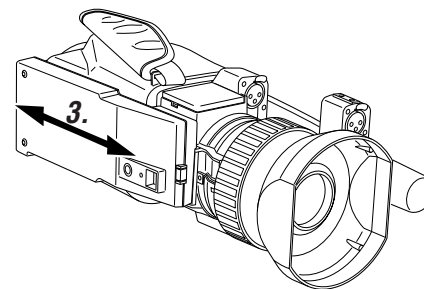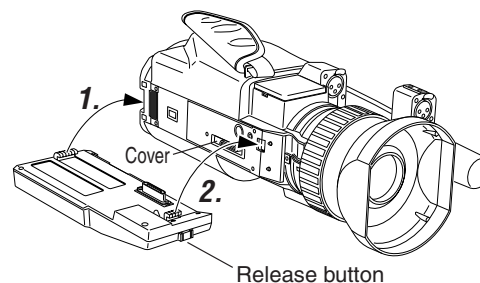
Be sure to turn OFF the power of the GY-DV300 and open the "cover" at the lower part of the camera before attaching the KA-DV350 using the following procedure.

1. Hook the claw at the rear of the KA-DV350 onto the notch of the GY-DV300.

2. While pressing the Release button, press the claw at the front of the KA-DV350 into the notch of the GY-DV300.

3. Attempt to move the KA-DV350 back and forth to ensure that it is securely attached to the camcorder.

Memo

To detach, perform steps 2. and 1. in order while pressing the Release button.

Confirming correct attachment

Use the following procedure to confirm that the KA-DV350 is correctly attached.

e — Card status indicator

1. Turn OFF the power of the GY-DV300.

2. Insert the card.

3. Turn ON the power of the GY-DV300.

4. Confirm the card status indicator.

The card status indicator is displayed on the GY-DV300's LCD screen or viewfinder screen in accordance with the type of the card.

| | : Card not inserted |

| **e** | : LAN card |

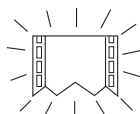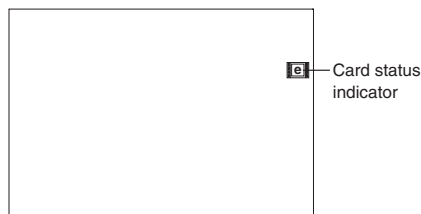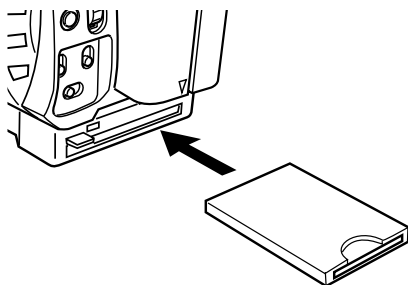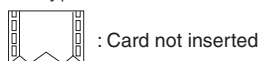| **C F** | : CF card |

Memo

The card status indicator shown on the right blinks during the initialization operation right after the power is turned on.

Caution

Be sure to turn OFF the GY-DV300's power supply before the card is removed from the camcorder.

Installing Streamproducer

Streamproducer JVC
Select your language.
English — Click
Japanese
Streamcorder

Streamproducer JVC
User's Guide. needs AcrobatReader.
Install Streamproducer. — Click
Install Adobe AcrobatReader.
Streamcorder   EXIT   RETURN

1. Insert the CD-ROM of Streamproducer into the CD-ROM drive.
- Wait until the access lamp of the CD-ROM drive goes out.
- The screen shown on the left appears.
- In case the Streamproducer does not start automatically, execute the "autorun.exe" in the CD-ROM.

2. Click on "English". The screen shown on the left appears.

3. Click on "Install the Streamproducer". The Installer starts up.

Memo

- When installing the Streamproducer, make sure that login is made to a PC with "Administrator privileges".

- Detailed information on how to operate the Streamproducer is described in the "Read User's Guide", so please refer to this.
  The "Read User's Guide" can be opened by selecting: Start menu/Programs/Streamproducer/User's Guide.

- There are no descriptions referring to the KA-DV350 in the Streamproducer "Read User's Guide". However, all of the instructions that are required for the KA-DV350 are the same as those for the KA-DV300.

Specifications

- ■ Mass : 150 g (main unit only)
- ■ Power supply : Supplied from the GY-DV300
- ■ Power consumption : DC 7.2 V ⎓ 0.61 A (main unit only)
- ■ Allowable operating temperature : 0 ˚C to 40 ˚C
- ■ Allowable storage temperature : –20 ˚C to 60 ˚C
- ■ Allowable operating humidity : 30 % to 80 % RH
- ■ Provided accessories : CD-ROM
  INSTRUCTIONS
  Warranty Card (USA and Canada only)

● External Dimensions (Unit: mm)
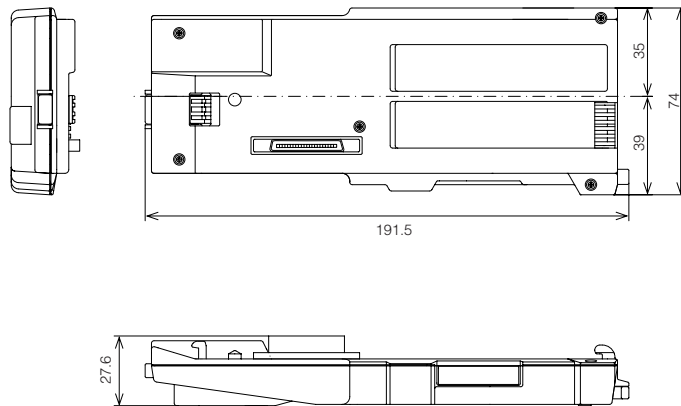
Design and specifications are subject to change without notice.

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NETWORK PACK

KA-DV350U   User's Guide
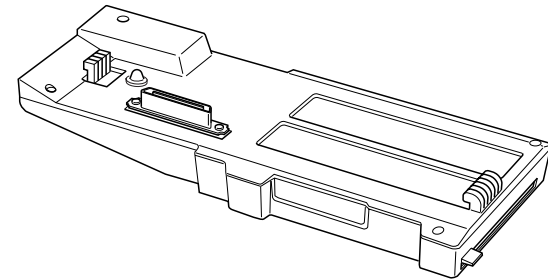
JVC®

VICTOR COMPANY OF JAPAN, LIMITED

Thank you for purchasing
this NETWORK PACK KA-DV350U.

Notes on usage

⚠️ **Caution** Items concerning the operations of this product are described.

📝 **Memo** References concerning the usage, restrictions, etc. of this product are described.

☞ Reference pages and reference items are indicated.

Proprietary terms

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● Windows is a registered trademark of Microsoft Corporation in the U.S.

● All other product names used in this manual are trademarks or registered trademarks of their respective companies. Please note that marks such as ™, ®, ©, stc. have been omitted in this manual.

Illustrated designs, specifications and other contents of this manual are subject to change without prior notice.

Contents

Precautions for Proper Use

Maintenance and operating environment

■ **Do not store or use this equipment in the following environments. This will cause malfunctioning and damage.**
- Locations beyond the allowable operating temperature range of 0 °C to 40 °C.
- Locations beyond the allowable operating humidity level of 30 % to 80 %.
- Near equipment that produces strong magnetic fields, such as transformers or motors.
- Near equipment that emits radio waves, such as transceivers and mobile phones.
- Locations with excessive dust and sand.
- Locations that are subject to excessive vibration.
- Locations prone to condensation.
- Locations that emit radiation, X-rays or corrosive gases.

Handling precautions

■ **Do not stack pieces of equipment**
The heat and noise produced by the various units may cause a malfunction in adjacent equipment, failure or fire.

■ **Do not step over**
The unit may topple over or break and cause injury. Take special care to prevent children from attempting these actions.

■ **Do not place a container of liquid (including a vase, flowerpot, toilet articles, medicine, etc.) on the unit.**
Penetration of a liquid inside the unit may cause a fire or electric shock.

■ **Do not allow any object to enter the unit.**
If a metallic or easily flammable object is inserted PC card slot, a fire or electric shock may result.

Cleaning

■ **Wipe this equipment using soft rags.**
Wiping with thinner or benzene may dissolve or tarnish its surface. For dirt that cannot be easily removed, wipe using a neutral detergent diluted with water, followed by wiping with a dry cloth.

Transportation

■ Turn off the power for camera and unplug the power cord from AC outlet before transportation.
This may cause damage to power cord, fire or electrical shock.

Saving Energy

■ Turn off the power to save energy when the equipment is not to be used for extensive periods of time.

Copyright information

■ Duplication, alteration and transmission of copyrighted materials including video and audio materials require the permission of the copyright owners, except in a case in which the person attempting these actions is the copyright owner of the video or audio material or a person who has obtained previous permission for these actions from the copyright owner.
If you duplicate, alter or transmit a copyrighted material without the permission of the copyright owner, an infringement of copyright law is constituted and you may be liable for damages. Therefore, when you want to utilize a copyrighted material as a video or audio material, be sure to check in advance, the conditions that relate to obtaining permission for the use of the copyrighted material.
In the case of a subject of shooting has been copyrighted, it is also necessary to obtain permission for shooting and utilizing it. Be sure to check in advance the conditions that relate to obtaining permission.

Loss of opportunity

Before performing an important recording, always perform test recording and confirm normal recording results in advance.
Should normal recording fail due to a problem with this unit, JVC will not assume liabilities for any damages that may result from the failure.

INTRODUCTION PREPARATION OPERATION OTHERS

Caution for using wireless LAN card

■ **Receiving Level Indicator of Wireless LAN**
If you are using wirelss LAN card that can detect receiving level, receiving level indicator is shown next to the card status information on LCD of your camcorder. The indicator shows value from 5 to 0, 5 means maximum level and 0 means minimum level. (The indicator is for reference. The value does not guarantee communication.)

■ WLAN CH is the wireless frequency band used for communication. If there is an access point, adapter, etc., using the same band in the proximity, there may be a hindrance in the communication and may reduce throughput or the quality of communication. When setting, check the settings of surrounding access points, etc., to avoid doubling.
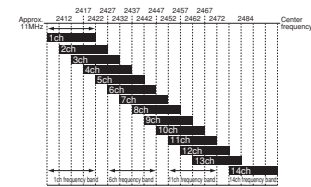
Since adjacent channels causes signal interference, channels are normally spaced 5 channels apart.

Frequency bands (ISM bands) and channels (IEEE803.11b standard)
N. America : FCC / 2.412~2.462GHz (11 channels)
Europe : CE ETSI / 2.412~2.472GHz (13 channels)
Japan : 2.412~2.4835GHz (14 channels)
France : 2.457~2.472GHz (4 channels)
Spain : 2.457~2.462GHz (2 channels)

(Set according to operating environment.)

Caution for using wireless LAN card

■ For the WLAN ESS ID, input the values of ESSID set in:
Ad hoc mode : PC of other party
Infrastructure : Access point
■ WLAN AD HOC MODE
When IBSS is set, the NETWORK MODE setting of the wireless LAN card on the PC side must be set to 802.11 Adhoc.
When AHDM is set, the NETWORK MODE setting of the wireless LAN card on the PC side must be set to Adhoc. Depending on the LAN card on the PC side, only 802.11 Adhoc mode may be available.

About restriction of audio record

■ This unit is not compatible with audio sampling frequency of 44.1kHz. When playing back a tape recorded with audio of 44.1kHz on GY-DV300 or when inputting audio in the 44.1kHz mode into the DV terminal, the audio will be processed as muted sound. However,the video will be processed as normal.

INTRODUCTION PREPARATION OPERATION OTHERS

PC Operating Environment

The operation of this unit has been confirmed under the following PC environment. The following PC environment was available as of January 2004. For details of the latest available operating environment, please consult your nearest JVC-authorized agent.

Minimum requirements of PC

OS	: Windows XP Home Edition
	Windows XP Professional
	Windows 2000 Professional
CPU	: Pentium III 700 MHz
Memory	: 128 MB
Display	: XGA (1024 x 768)
Sound card	: Sound Blaster, compatible with DirectX.
	SoundBlaster-compatible card, compatible with DirectX.

Web browser

Internet Explorer 6.0 : For the CPU performance and required memory capacity, refer to the recommended specifications for the browser.

Player software

Windows Media Player 7.01 : If Windows Media Player 9.0 is used, some
or functions of the Streamproducer may be
Windows Media Player 8 restricted.

LAN environment

100BASE-TX /10BASE-TX : Using a crossover cable enables 1-to-1 connection of the PC and this unit.

* The use of a crossover cable may be inhibited with certain LAN boards. Please check your LAN board details.

6

PC Operating Environment

Available card

Wired LAN card	: EA2906 194 Revision C*1
	(Manufacturer: Socket Communications Inc.) *2
	PCM100 (Manufacturer: LINKSYS)
	FA411 (Manufacturer: NETGEAR)
Wireless LAN-card	: WLI-CF-S11G (Manufacturer: BUFFALO INC.)
	WLI2-CF-S11 (Manufacturer: BUFFALO INC.)
	WCF11 (Manufacturer: LINKSYS) *3
	TEW-201PC (Manufacturer: TRENDware international Inc.)
	TEW-202CF (Manufacturer: TRENDware international Inc.)
	AIR-PCM352 (Manufacturer: Cisco Systems, Inc.)
CF (Compact Flush) card	: SDCFB-16-801 (Manufacturer: SanDisk Corporation) *2
	SDCFB-32-801 (Manufacturer: SanDisk Corporation) *2
	SDCFB-64-801 (Manufacturer: SanDisk Corporation) *2
	SDCFB-128-801 (Manufacturer: SanDisk Corporation) *2
	SDCFB-256-801 (Manufacturer: SanDisk Corporation) *2

*1: The Revision designation is indicated in the upper right of the serial number label af fixed to the package.
*2: Use PCMCIA card TYPE 1 or TYPE 2 adapter
*3: Use PCMCIA card TYPE 2 adapter

Caution

The operation of the cards in the list above has been confirmed. (available as of January 2004) Do not use the cards not mentioned in the list. It may cause of malfunction of this unit.

Memo

Please ask our company's sales clerk about the newest card checked of operation.

7

LCD and Viewfinder Display

Information from Network Pack KA-DV350 is displayed on the GY-DV300 LCD screen/ viewfinder screen.
When there is a system error, network error, unit malfunction, etc., KA-DV350 displays the error on the GY-DV300 LCD screen or viewfinder screen.

```
                        ▯▯▯
        CF  FULL!        [e]  ❶ Card status displays

                             ❷ CF card warning display


                0 3／0 3／0 3
              AM 0 1 : 2 3 : 4 5
```

<LCD screen or viewfinder screen>
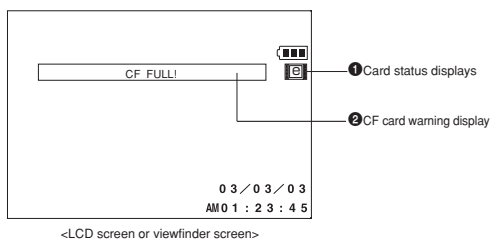
❶ Card status displays

Display	Description
(film strip icon)	No card is inserted in Network Pack. Flashing display during initialization (after power on).
e (White display)	LAN card is inserted in Network Pack.
e (Red display)	Video/audio data is being sent from LAN card.
CF (White display)	CF card is inserted in Network Pack.
CF (Red display)	CF card is being recorded with data.
X Flashing display	Card is inserted in Network Pack but transmission is not available. There is possibility of unit malfunction. Contact your nearest JVC dealer.

❷ CF card warning display
Displays CF card status and system errors.

* For details concerning warning displays, see page 9.

LCD and Viewfinder Display

```
                        ▯▯▯
        CF  FULL!        [e]  ❶ Card status displays

                             ❷ CF card warning display


                0 3／0 3／0 3
              AM 0 1 : 2 3 : 4 5
```

<LCD screen or viewfinder screen>

<File system related>
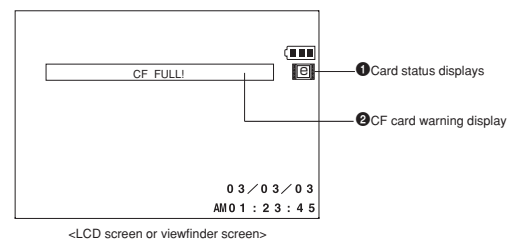
Screen display	Cause	Remedy	Reference page
CF REMAIN 60SEC! (Flashing for 3 sec.)	Remaining time became less than 60 seconds during recording to CF card.	Stop recording and replace with a new CF card, or delete files on the current CF card to secure recording space.	47
			48
CF REMAIN 30SEC!	Remaining time became less than 30 seconds during recording to CF card.		49
			50
			51
CF REMAIN 20SEC!	Remaining time became less than 20 seconds during recording to CF card.		
CF REMAIN 10SEC!	Remaining time became less than 10 seconds during recording to CF card.		
CF FULL! (Displayed until CF recording stops)	Remaining time has run out during recording to CF card.		
CF FULL! (Flashing for 3 sec.)	Recording is being attempted on CF card with remaining time of less than 10 seconds.		
FORMAT ERROR!	Failed to format CF card.	Check the CF card and format again. If the card still cannot be formatted, contact your nearest JVC-authorized service agent.	46
NO CF FORMAT! (Flashing)	CF card is unformatted, or an unknown format is being used.	Check the CF card and format.	46

LCD and Viewfinder Display

<Operation related>

Screen display	Cause	Remedy	Reference page
NO CF CARD! (Flashing for 3 sec.)	There is no CF card inserted.	Insert a CF card.	45
PROTECT! (Flashing for 3 sec.)	Deletion of a protected clip file was attempted.	To delete the clip file, remove the protection.	55
NO CLIP! (Flashing for 3 sec.)	There is no CF card inserted, of there is no clip file available.	Check the CF card.	—
SET WLAN AD HOC MODE OFF! (Flashing for 3 sec.)	Use of DHCP server was attempted while in the AD HOC mode. It is displayed also when the LEAP mode is set to ON on the NETWORK MAIN menu.	Set DHCP in the NETWORK SET menu screen to OFF when using the AD HOC mode.	14
SET DHCP OFF! (Flashing for 3 sec.)	Selection of AD HOC mode was attempted while using DHCP server.	Set WLAN AD MOC MODE in the NETWORK SET menu screen to OFF when using DHCP server.	16
OVERLAP HTTP! (Flashing for 3 sec.)	Port set for HTTP of WEB Browser is already in use.	Set an unused port.	15
OVERLAP ASF-HTTP! (Flashing for 3 sec.)	Port set for HTTP of Media Player is already in use.	Set an unused port.	15
OVERLAP ASF-RTSP! (Flashing for 3 sec)	Set port for RTSP of Streamproducer is already in use by another port.	Set an unused port.	15
OVERLAP QT-RTSP! (Flashing for 3 sec)	Set port for RTSP of Quick Time is already in use by another port.	Set an unused port.	15
ILLEGAL SETTING! (Flashing for 3 sec.)	Set value exceeded setting range.	Set a value within the setting range.	14
DATA LENGTH 10 or 26 (Flashing for 3 sec)	Setting made with other than 10 or 26 characters.	Set using 10 or 26 characters.	17
CHRACTER IS SHORT!! (Flashing for 3 sec)	Set number of characters is 2 or less / 3 or less.	Set using 3 or more / 4 or more characters.	14 / 17
SET LEAP MODE OFF!! (Flashing for 3 sec)	ADHOC mode use is attempted when the LEAP mode is set to ON.	Set LEAP to OFF when in the ADHOC mode.	16
SAME OLD PASSWORD NAME!! (Flashing for 3 sec)	The new password is the same as the old password.	Set a password different from the old password.	17
WRONG PASSWORD!!	Wrong password is input.	Input a correct password.	27
GARBAGE! (Flashing display while optimizing)	Optimization of internal ROM disk currently being processed.	Please wait until process is completed.	—

LCD and Viewfinder Display

<Operation related>

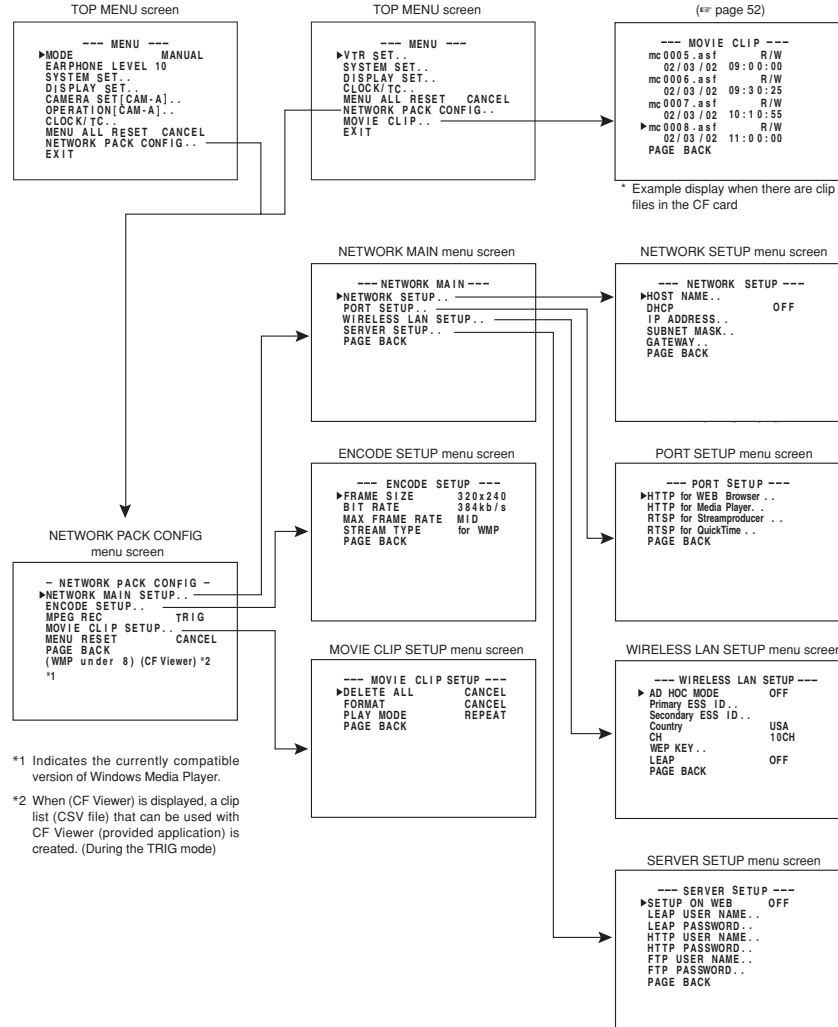| Screen display	Cause	Remedy	Reference page
IP ADDRESS ERROR! (Flashing display until network connection is established)	Failed to acquire IP address when DHCP is ON.	Set DHCP again.	14
NO UPDATE FILES! (Flashing for 3 sec.)	There is no update data in the CF card.	Insert a CF card with UPDATE data into the slot.	—
NO UPDATE CARD! (Flashing for 3 sec.)	CF card is not inserted.	Insert a CF card with UPDATE data into the slot.	—
UPDATE FAILED!	Update was not successful.	Contact your JVC dealer.	—
COPY GUARD!	Signal of recording origin is protected with copy guard.	Input recording signal with no copy guard protection.	—
SETTING FAILED!	Input settng is wrong.	Check the setting again.	—

Setup Menus

When attaching Network Pack KA-DV350 to DV Camcorder GY-DV300, NETWORK PACK CONFIG menu and MOVIE CLIP menu are appeared on the GY-DV300 TOP MENU screen.

MODE switch: When CAM-A or CAM-B is selected

TOP MENU screen

```
   --- MENU ---
▶MODE           MANUAL
 EARPHONE LEVEL 10
 SYSTEM SET..
 DISPLAY SET..
 CAMERA SET[CAM-A]..
 OPERATION[CAM-A]..
 CLOCK/TC..
 MENU ALL RESET  CANCEL
 NETWORK PACK CONFIG..
 EXIT
```

MODE switch: VTR is selected

TOP MENU screen

```
   --- MENU ---
▶VTR SET..
 SYSTEM SET..
 DISPLAY SET..
 CLOCK/TC..
 MENU ALL RESET   CANCEL
 NETWORK PACK CONFIG..
 MOVIE CLIP..
 EXIT
```

MOVIE CLIP list screen
(☞ page 52)

```
   --- MOVIE CLIP ---
 mc0005.asf       R/W
   02/03/02  09:00:00
 mc0006.asf       R/W
   02/03/02  09:30:25
 mc0007.asf       R/W
   02/03/02  10:10:55
▶mc0008.asf       R/W
   02/03/02  11:00:00
 PAGE BACK
```

* Example display when there are clip files in the CF card

NETWORK PACK CONFIG menu screen

```
 – NETWORK PACK CONFIG –
▶NETWORK MAIN SETUP..
 ENCODE SETUP..
 MPEG REC          TRIG
 MOVIE CLIP SETUP..
 MENU RESET      CANCEL
 PAGE BACK
 (WMP under 8) (CF Viewer) *2
 *1
```

NETWORK MAIN menu screen

```
   --- NETWORK MAIN ---
▶NETWORK SETUP..
 PORT SETUP..
 WIRELESS LAN SETUP..
 SERVER SETUP..
 PAGE BACK
```

ENCODE SETUP menu screen

```
   --- ENCODE SETUP ---
▶FRAME SIZE     320x240
 BIT RATE      384kb/s
 MAX FRAME RATE    MID
 STREAM TYPE   for WMP
 PAGE BACK
```

MOVIE CLIP SETUP menu screen

```
   --- MOVIE CLIP SETUP ---
▶DELETE ALL      CANCEL
 FORMAT          CANCEL
 PLAY MODE       REPEAT
 PAGE BACK
```

NETWORK SETUP menu screen

```
   --- NETWORK SETUP ---
▶HOST NAME..
 DHCP             OFF
 IP ADDRESS..
 SUBNET MASK..
 GATEWAY..
 PAGE BACK
```

PORT SETUP menu screen

```
   --- PORT SETUP ---
▶HTTP for WEB Browser ..
 HTTP for Media Player..
 RTSP for Streamproducer ..
 RTSP for QuickTime ..
 PAGE BACK
```

WIRELESS LAN SETUP menu screen

```
   --- WIRELESS LAN SETUP ---
▶ AD HOC MODE        OFF
 Primary ESS ID..
 Secondary ESS ID..
 Country            USA
 CH                10CH
 WEP KEY..
 LEAP               OFF
 PAGE BACK
```

SERVER SETUP menu screen

```
   --- SERVER SETUP ---
▶SETUP ON WEB     OFF
 LEAP USER NAME..
 LEAP PASSWORD..
 HTTP USER NAME..
 HTTP PASSWORD..
 FTP USER NAME..
 FTP PASSWORD..
 PAGE BACK
```

*1 Indicates the currently compatible version of Windows Media Player.

*2 When (CF Viewer) is displayed, a clip list (CSV file) that can be used with CF Viewer (provided application) is created. (During the TRIG mode)

Setup Menus

NETWORK PACK CONFIG menu

● indicates default factory setting.

Item	Setting	Description
NETWORK MAIN SETUP		Displays menu screen for network related settings.
ENCODE SETUP		Displays menu screen for setting video and audio compressions.
MPEG REC	TRIG● SPLIT OFF	Selects the operation method for recording video data to a CF card or sending data to a remote media from a LAN card. TRIG : Pressing the REC START/STOP button of GY-DV300 starts operation. Use this setting when simultaneously recording to a DV tape. SPLIT : Use this setting when recording or transferring with CF card or LAN card only. Operation starts when pressing the SELECT dial of GY-DV300. OFF : Recording will not be made to the CF card and streaming data from the LAN card will not be recorded/sent to the PC even when pressing the REC START/STOP button or the SELECT dial of GY-DV300.
MOVIE CLIP SETUP		Displays the menu screen for CF card related settings such as formatting or deleting all recorded clip files.
MENU RESET	CANCEL● EXECUTE	Selecting EXECUTE and pressing the SELECT dial returns NETWORK PACK CONFIG menu screen settings to the original factory settings.
PAGE BACK		Pressing the SELECT dial returns to the TOP MENU screen.

Memo
The details of a menu item refer to page 14.

Memo
The details of a menu item refer to page 18.

Memo
The details of a menu item refer to page 20.

Setup Menus

NETWORK MAIN menu

● **indicates default factory setting.**

NETWORK SETUP menu

Item	Setting	Description
HOST NAME	none●	Displays the host name input setting screen. (4 - 64 alphanumerical characters) [Factory setting: none]
DHCP	ON OFF●	Select whether DHCP server is used. OFF : Use this setting when using LAN connection rather than DHCP. When this setting is used, IP ADDRESS and SUBNET MASK, GATEWAY must also be set. ON : Use this setting when using DHCP connection. When using this setting, IP ADDRESS and SUBNET MASK, GATEWAY are automatically set.
IP ADDRESS	192. 168. 100. 101●	Displays the IP address setting screen. When using LAN connection with DHCP set to OFF, this setting is required. Set a unique IP address. [Factory setting] 192.168.100.101
SUBNET MASK	255. 255. 255. 000●	Displays the subnet mask input screen. This setting is required when using LAN connection with DHCP set to OFF. [Factory setting: 255.255.255.000]
GATE WAY	192. 168. 100. 254●	Displays the gateway address input screen. [Factory setting: 192.168.100.254]
PAGE BACK		Pressing the SELECT dial returns to the NETWORK MAIN SETUP menu screen.

Memo
When DHCP is set to ON, WLAN ADHOC MODE cannot be set to AHDM or IBSS.

Memo
IP ADDRESS setting is not available when DHCP is set to ON.

Memo
SUBNET MASK setting is not available if DHCP is set to ON.

Memo
GATEWAY setting is not available when DHCP is set to ON.

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Setup Menus

NETWORK MAIN manu

● **indicates default factory setting.**

PORT SETUP menu screen

Item	Setting	Description
HTTP for WEB Browser	1 : 80● : 32767	The screen for setting RTSP and HTTP port numbers appears. HTTP for Web Browser can be set with the Web browser HTTP port number and HTTP for Mediaplayer can be set with the Mediaplayer HTTP port number. RTSP for Streamproducer can be set with the Streamproducer RTSP port number and RTSP for QuickTime can be set with the QuickTime RTSP port number. Normally, the unit can be used without changing the factory settings. If there are port restrictions for the LAN environment of your PC, consult your network administrator.
HTTP for Media player	1 : 8080● : 32767	
RTSP for Streamproducer	1 : 8554● : 32767	
RTSP for QuickTime	1 : 554● : 32767	
PAGE BACK		Pressing the SELECT dial returns to the NETWORK MAIN menu screen.

Memo
• When changing a port number, refer to "4.2.1 Connecting to Streamcorder" of the "Streamproducer" User's Guide of the network distribution software to change settings.
• Do not use the same port numbers for RTSP and HTTP.
• When a port number is changed, switch the power of the GY-DV300 off once, and then switch it on again.

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Setup Menus

NETWORK MAIN menu

● indicates default factory setting.

Item	Setting	Description
WIRELESS LAN SETUP menu		
AD HOC MODE	OFF● AHDM IBSS	Wireless LAN setting OFF : Use this setting when performing communication via access point. AHDM/IBSS : Use this setting when performing communication in AD HOC mode with a PC connected with a wireless LAN card. (☞page 16)
Primary ESS ID	NONE●	Displays the wireless LAN ESS-ID input setting screen (Max. 32 alphanumerical characters)
Secondary ESS ID	NONE●	
Country	USA● EU FRN SPN JPN	Setting for the country using wireless LAN USA: USA, EU: Europe, FRN: France, SPN: Spain, JPN: Japan (Set according to operating environment.)
CH	1CH : 10CH● : 14CH	Wireless LAN channel setting CH setting changes depending on the Country setting. USA: 1 to 11CH, EU: 1 to 13CH, FRN: 10 to 13CH, SPN: 10, 11CH, JPN: 1 to 14CH
WEP KEY		When encrypting data, set the WEP KEY (10 or 26 characters consisting or letters a to f and numbers). Must be compatible with access point authentication for the use of this item.
LEAP	ON OFF●	Set to ON when connecting a Cisco Systems wireless LAN device and using the LEAP function.
PAGE BACK		Pressing the SELECT dial returns to the NETWORK MAIN SETUP menu screen.

Memo
When this item is set to AHDM or IBSS, DHCP cannot be set to ON.

Memo
The LEAP function is exclusive to Cisco Systems wireless LAN devices. For details concerning the LEAP function, see the instruction manual accompanying the wireless LAN device.

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Setup Menus

NETWORK MAIN menu

● indicates default factory setting.

Item	Setting	Description
SERVER SETUP menu		
SETUP ON WEB	ON OFF●	Set to ON when changing the USER NAME and PASSWORD from the Web.
LEAP USER NAME	leap-user●	Displays the LEAP USER NAME input screen. (4 to 32 alphanumerical characters) Set when using the LEAP function. [Default setting: leap-user]
LEAP PASSWORD	ka-dv-jvc●	Displays the LEAP PASSWORD input screen. (4 to 32 alphanumerical characters) Set when using the LEAP function. [Default setting: ka-dv-jvc]
HTTP USER NAME	jvc●	Displays the HTTP USER NAME input screen. (3 to 8 alphanumerical characters) Set when connecting from the Web browser. [Default setting: jvc]
HTTP PASSWORD	ka-dv300●	Displays the HTTP PASSWORD input screen. (4 to 8 alphanumerical characters) Set when connecting from the Web browser. [Default setting: ka-dv300]
FTP USER NAME	ftp-user●	Displays the FTP USER NAME input screen. (3 to 8 alphanumerical characters) Used when uploading USER PAGE. [Default setting: ftp-user]
FTP PASSWORD	ka-dv●	Displays the FTP PASSWORD input screen. (4 to 8 alphanumerical characters) Used when uploading USER PAGE. [Default setting: ka-dv]
PAGE BACK		Pressing the SELECT dial returns to the NETWORK MAIN SETUP menu screen.

Memo
If higher security is desired, set this function to OFF so that changes cannot be made from the Web.

Memo
For details concerning user name and password settings, see page 27.

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ENCODE SETUP menu

● indicates default factory setting.

Item	Setting	Description
FRAME SIZE	320 × 240● 160 × 120	Sets the video compression size. 320 × 240 : Sets the image size to 320 × 240 pixels. 160 × 120 : Sets the image size to 160 × 120 pixels.
BIT RATE	56K 128K 256K 384K● 512K	Sets streaming speed (bps). 56K : MPEG4 24 kbps (G726 16 kbps for WMP) 128K: MPEG4 104 kbps (G726 16 kbps for WMP) 256K : MPEG4 224 kbps (G726 32 kbps for WMP) (μlaw 64kbps for QT) 384K : MPEG4 352 kbps (G726 32 kbps for WMP) (μlaw 64kbps for QT) 512K : MPEG4 472 kbps (G726 40 kbps for WMP) (μlaw 64kbps for QT)
MAX FRAME RATE	MAX MID● MIN	Sets the frame rate per second. Settings are as shown below.

BIT RATE (bps)		FRAME SIZE					
		320×240			160×120		
		MAX	MID	MIN	MAX	MID	MIN
512K	NTSC	15	10	7.5	30	15	7.5
	PAL	12.5	5	5	25	12.5	5
384K	NTSC	15	10	7.5	30	15	7.5
	PAL	12.5	5	5	25	12.5	5
256K	NTSC	15	7.5	5	30	15	7.5
	PAL	12.5	5	5	25	12.5	5
128K	NTSC	7.5	5	3	15	10	7.5
	PAL	5	5	1	12.5	12.5	5
56K	NTSC	3	1	1	10	7.5	5
	PAL	1	1	1	12.5	5	5

Memo
The input image for a 160x120 pixel image is 160x120 pixels. However, they will be 160x128 pixels when compressed.

Memo
Do not set the BIT RATE Item to "56K" or "128K" while the STREAM TYPE Item is set to the "for QT".

Memo
The frame rates shown in the table are not guaranteed values.

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→ **OVER**

ENCODE SETUP menu

● indicates default factory setting.

Item	Setting	Description
STREAM TYPE	for WMP● for QT	Sets the player for stream playback. for WMP : Media Player, Streamproducer for QT : QuickTime
PAGE BACK		Pressing the SELECT dial returns to the NETWORK PACK CONFIG menu screen.

Memo
• No sound will be heard when playing back using QuickTime while in the WMP mode.

• No sound will be heard when playing back using Media Player while in the QT mode.

• Set to WMP mode when recording to CF card.

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MOVIE CLIP SETUP menu

● **indicates default factory setting.**

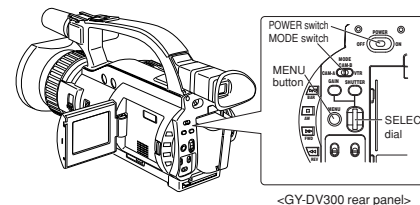| Item	Setting	Description
DELETE ALL	CANCEL●	Selecting EXECUTE and pressing the SELECT dial deletes all clip files on the CF card.
	EXECUTE	Protected clip files are not deleted.
FORMAT	CANCEL●	Selecting EXECUTE and pressing the SELECT dial starts formatting the card.
	EXECUTE	All recorded clips are erased.
PLAY MODE	OFF	Playback is performed from the specified clip file to the latest clip file and pauses at the specified clip file.
	REPEAT1	Specified clip file is played backed 3 times.
	REPEAT●	Playback is performed 3 times from the specified clip file to the latest clip file.
PAGE BACK		Pressing the SELECT dial returns to the NETWORK PACK CONFIG menu screen.

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Setup Menus

Changing the NETWORK PACK CONFIG menu settings

Menu screen settings can be made regardless of whether a card is inserted. Settings will be stored in the KA-DV350 memory even when turning the power off.
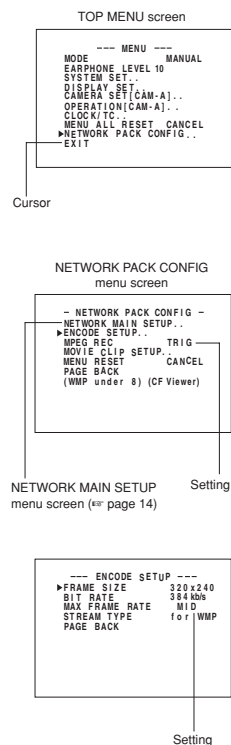

<GY-DV300 rear panel>

Memo

• Settings are made by viewing the LCD screen or viewfinder screen. If OUTPUT CHAR of the DISPLAY [2/2] menu screen is set to MIX, the menu screen also appears on the monitor screen connected to the VIDEO OUT or Y/C connector.

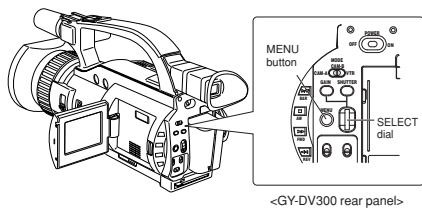• The NETWORK PACK CONFIG menu screen will not appear during card initialization (flashing display).

TOP MENU screen

```
--- MENU ---
MODE          MANUAL
EARPHONE LEVEL 10
SYSTEM SET..
DISPLAY SET..
CAMERA SET[CAM-A]..
OPERATION[CAM-A]..
CLOCK/TC..
MENU ALL RESET  CANCEL
▶NETWORK PACK CONFIG..
 EXIT
```

Cursor

NETWORK PACK CONFIG menu screen

```
– NETWORK PACK CONFIG –
 NETWORK MAIN SETUP..
▶ENCODE SETUP..
 MPEG REC        TRIG
 MOVIE CLIP SETUP..
 MENU RESET     CANCEL
 PAGE BACK
 (WMP under 8) (CF Viewer)
```

NETWORK MAIN SETUP
menu screen (☞ page 14)   Setting

```
--- ENCODE SETUP ---
▶FRAME SIZE    320x240
 BIT RATE     384 kb/s
 MAX FRAME RATE   MID
 STREAM TYPE   for WMP
 PAGE BACK
```

Setting

1. Set the POWER switch to ON.

2. Set the MODE switch.
• Set to "CAM-A" or "CAM-B" when shooting a video.
• Set to "VTR" for VTR playback, clip file playback or DV signal recording.
(GY-DV300E can not record the DV input signal.)

3. Press the MENU button for about 1 seconds. The TOP MENU screen appears.
• Turn the SELECT dial, move the cursor (▶) to NETWORK PACK CONFIG and press the SELECT dial.
• The NETWORK PACK CONFIG menu screen appears.

4. Select the item to set.
Turn the SELECT dial, move the cursor to the desired item to set and press the SELECT dial.
• The selected menu screen appears.
• When selecting MPEG REC or MENU RESET, the setting area flashes and the setting can be changed. Set the item according to step **6.**
• When selecting NETWORK MAIN SETUP, the network related setting screen appears. (☞ page 14)

5. Select an item within the menu screen.
Turn the SELECT dial, move the cursor (▶) to the desired item to set and press the SELECT dial.
• The setting area flashes and the setting can be changed.

6. Change the setting.
Turn the SELECT dial to change the setting and press the SELECT dial.
• Flashing of the setting area stops and the new setting is confirmed.

■ **When changing multiple settings, repeat steps 5 and 6 above.**

7. Return to the TOP MENU screen.
Turn the SELECT dial, move the cursor (▶) to PAGE BACK and press the SELECT dial.

8. When quitting menu screen setting and returning to the normal screen, perform one of the following operations.
• Press the MENU button.
• Move the cursor (▶) to EXIT in the TOP MENU screen and press the SELECT dial.

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Setup Menus

MENU
button

SELECT
dial

<GY-DV300 rear panel>

NETWORK PACK CONFIG
menu screen

```
─ NETWORK PACK CONFIG ─
NETWORK MAIN SETUP..
ENCODE SETUP..
MPEG REC              TRIG
MOVIE CLIP SETUP..
▶MENU RESET      EXECUTE
PAGE BACK
(WMP under 8) (CF Viewer)

     MENU RESET
```

1. Check to see that the card status display has changed from a flashing to constant display.

2. Press the MENU button to display the TOP MENU screen.

3. Turn the SELECT dial to select NETWORK PACK CONFIG and press the SELECT dial.
   • The NETWORK PACK CONFIG menu screen appears.

4. Turn the SELECT dial to set MENU RESET to "EXECUTE" and press the SELECT dial.
   • When resetting the menu, "MENU RESET.." will appear at the bottom of the screen for about 5 seconds.
   • The NETWORK PACK CONFIG menu screen settings will return to the factory settings.

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Operations Available with This Unit

Sending camera video/audio by email using CF (Compact Flash) card

INTERNET
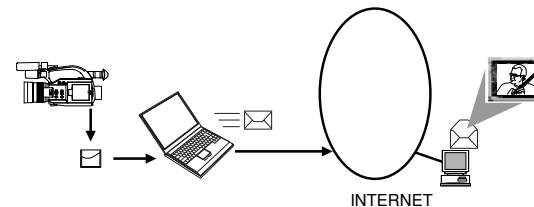
1 Using the KA-DV350 for filing the camera image on a CF card.

**2** Sending an image file stored on a CF card as an e-mail attachment file.

Viewing and filing camera images on your PC using "Streamcapture"
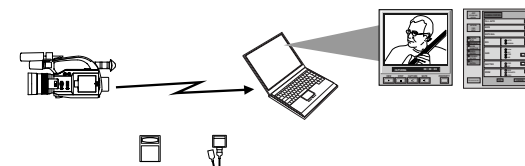
1 Using the KA-DV350 to transfer the camera images to a PC.

2 Using Streamcapture for viewing and/or filing the camera images on a PC.

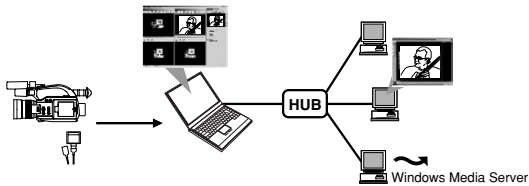INTRODUCTION

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Operations Available with This Unit

Controlling the camera with computer
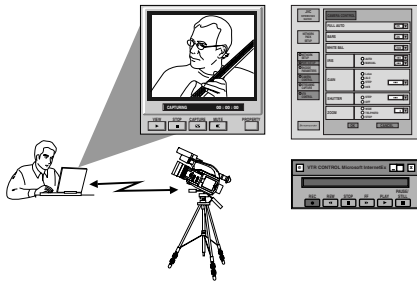
Camera settings and VTR control can be performed using a computer.

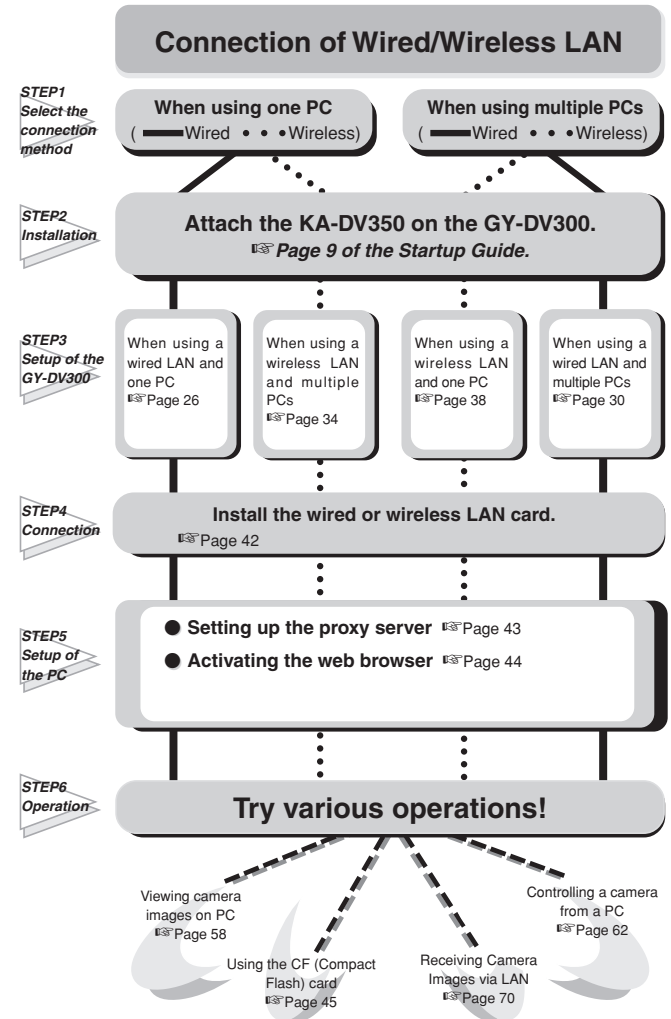## Distributing the camera images on an internet

Windows Media Server

1 Using the KA-DV350 to transfer the camera images to a PC.

2 Using Streamproducer to redistribute the camera images transferred to the PC.

3 Using Windows Media Player to view the distributed camera images on a PC.

Flow of Preparation

To prepare for the operation of the KA-DV350, perform the network setup and the initial setup of the GY-DV300 as shown below.

Connection of Wired/Wireless LAN

STEP1
Select the connection method

When using one PC
(──Wired • • •Wireless)

When using multiple PCs
(──Wired • • •Wireless)

STEP2
Installation

Attach the KA-DV350 on the GY-DV300.
☞*Page 9 of the Startup Guide.*

STEP3
Setup of the GY-DV300

When using a wired LAN and one PC
☞Page 26

When using a wireless LAN and multiple PCs
☞Page 34

When using a wireless LAN and one PC
☞Page 38

When using a wired LAN and multiple PCs
☞Page 30

STEP4
Connection

Install the wired or wireless LAN card.
☞Page 42

STEP5
Setup of the PC

● **Setting up the proxy server** ☞Page 43

● **Activating the web browser** ☞Page 44

STEP6
Operation

Try various operations!

Viewing camera images on PC
☞Page 58

Using the CF (Compact Flash) card
☞Page 45

Receiving Camera Images via LAN
☞Page 70

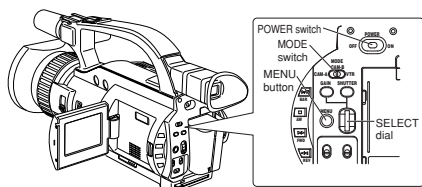Controlling a camera from a PC
☞Page 62

Setup of the GY-DV300 <small>When using a wired LAN and one PC</small>

When using a LAN card, network related settings for KA-DV350 are made using NETWORK MAIN SETUP of the NETWORK PACK CONFIG menu. Settings will be stored in the KA-DV350 memory even when turning the power off.

Display the NETWORK SETUP menu screen

Memo

• Settings are made by viewing the LCD screen or viewfinder screen. If OUTPUT CHAR of the DISPLAY [2/2] menu screen is set to MIX, the menu screen also appears on the monitor screen connected to the VIDEO OUT or Y/C connector.

• It is possible to set the menu without installing a LAN card.

POWER switch
MODE switch
MENU button
SELECT dial

<GY-DV300 rear panel>

TOP MENU screen
```
––– MENU –––
MODE            MANUAL
EARHONE LEVEL 10
SYSTEM SET..
DISPLAY SET.
CAMERA SET[CAM-A]..
OPERATION[CAM-A]..
CLOCK/TC.
MENU ALL RESET CANCEL
▶NETWORK PACK CONFIG..
EXIT
```

NETWORK PACK CONFIG menu screen
```
– NETWORK PACK CONFIG –
▶NETWORK MAIN SETUP..
 ENCODE SETUP..
 MPEG REC         TRIG
 MOVIE CLIP SETUP..
 MENU RESET    CANCEL
 PAGE BACK
 (WMP under 8)(CF Viewer)
```

NETWORK MAIN menu screen
```
––– NETWORK MAIN –––
▶NETWORK SETUP..
 PORT SETUP..
 WIRELESS LAN SETUP..
 SERVER SETUP..
 PAGE BACK
```

NETWORK SETUP menu screen
```
––– NETWORK SETUP –––
▶HOST NAME..
 DHCP           OFF
 IP ADDRESS..
 SUBNET MASK..
 GATEWAY..
 PAGE BACK
```

1. Turn on the GY-DV300 power.

2. Press the MENU button to display the TOP MENU screen.
• Turn the SELECT dial, move the cursor (▶) to NETWORK PACK CONFIG and press the SELECT dial.
• The NETWORK PACK CONFIG menu screen appears.

3. Turn the SELECT dial, move the cursor (▶) to NETWORK MAIN SETUP and press the SELECT dial.
• The NETWORK MAIN menu screen will appear.
The NETWORK MAIN menu screen is structured by 4 screens.
NETWORK SETUP
PORT SETUP
WIRELESS LAN SETUP
SERVER SETUP

4. Turn the SELECT dial, move the cursor (▶) to one SETUP and press the SELECT dial.
• The selected one SETUP screen appears.
Items with ".." at the end of the name are set in the INPUT screen.

5. To return to the NETWORK MAIN menu screen, select PAGE BACK and press the SELECT dial.

6. To return to the normal screen after completing setting, perform one of the following operations.
• Press the MENU button
• Select PAGE BACK to return to the TOP MENU screen. Select EXIT in the TOP MENU screen and press the SELECT dial.

Setup of the GY-DV300 <small>When using a wired LAN and one PC</small>

Setting user names and passwords

Memo

• Do not forget to take a memo of the password. The password cannot be redisplayed.

• Each character input on the PASSWORD menu screen is hidden using asterisks (*).

• When performing MENU RESET, the unit will return the default factory settings.

Set LEAP, HTTP and FTP PASSWORD using the procedure shown below.

1. First, enter the currently used password when "ENTER OLD PASSWORD" is displayed.

2. Next, enter the new password when "ENTER NEW PASS-WORD" is displayed.

3. Lastly, enter the new password again when "CONFIRM NEW PASSWORD" is displayed.

■ Changing the user name
When changing the HTTP USER NAME or FTP USER NAME, "NEXT STEP SET PASSWORD" will appear on the screen and the PASSWORD menu screen is displayed.
When input is canceled in the PASSWORD menu screen, the user name will also be canceled.
It is possible to change only the password.
When changing the LEAP USER NAME setting, the PASSWORD menu screen will not appear automatically.
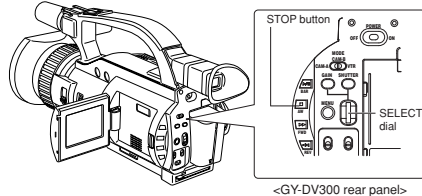
INTRODUCTION PREPARATION OPERATION OTHERS

INTRODUCTION PREPARATION OPERATION OTHERS

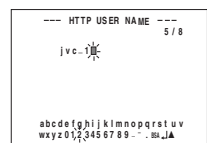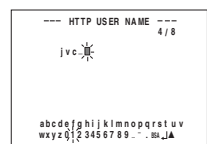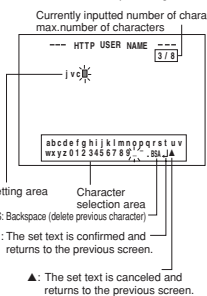# Setup of the GY-DV300 When using a wired LAN and one PC

Network related settings are made in the individual input setting screens.
Here, HTTP USER NAME is set as an example. Other settings are also made in the same manner.

Setup for network settings

Example:
Changing HTTP USER NAME from
jvc to jvc_1234

HTTP USER NAME input setting screen

Currently inputted number of characters/
max.number of characters

```
――― HTTP USER NAME ―――
                           3 / 8
    j v c

 abcde f g h i j k l m n o p q r s t u v
 w x y z 0 1 2 3 4 5 6 7 8 9 ˙ ‐ .  BS ↲▲
```

Setting area   Character
                selection area
BS: Backspace (delete previous character)

↲ : The set text is confirmed and
returns to the previous screen.

▲: The set text is canceled and
returns to the previous screen.

```
――― HTTP USER NAME ―――
                           4 / 8
    j v c ˙

 abcde f g h i j k l m n o p q r s t u v
 w x y z 0 1 2 3 4 5 6 7 8 9 ˙ ‐ .  BS ↲▲
```

```
――― HTTP USER NAME ―――
                           5 / 8
    j v c ˍ 1

 abcde f g h i j k l m n o p q r s t u v
 w x y z 0 1 2 3 4 5 6 7 8 9 ˙ ‐ .  BS ↲▲
```

```
――― HTTP USER NAME ―――
                           8 / 8
    j v c ˍ 1 2 3 4

 abcde f g h i j k l m n o p q r s t u v
 w x y z 0 1 2 3 4 5 6 7 8 9 ˙ ‐ .  BS ↲▲
```

STOP button

SELECT
dial

<GY-DV300 rear panel>

1. Select HTTP USER NAME in the SERVER SETUP menu screen and press the SELECT dial.
 • The HTTP USER NAME input setting screen appears.

2. Characters are selected from the character selection area on the bottom of the screen.
 • Turn the SELECT dial to flash "_" in the character selection area and press the SELECT dial.
 • The setting changes to "jvc_" and the following digit of the setting area flashes.

3. Turn the SELECT dial to select "1" in the character selection area and press the SELECT. dial.
 • The setting changes to "jvc_1" and the following digit of the setting area flashes.

4. Repeat the above step to set "jvc_1234" in the setting area.
 • To delete or edit set characters, select "BS" within the character selection area and press the SELECT dial.
   The previous character will be deleted. The character on the left will be deleted each time this operation is repeated.
 • When turning the SELECT dial while holding down the STOP button, the cursor will move 5 characters at a time.
 • The currently inputted number of characters and the maximum number of characters are displayed on the upper right of the screen.
 • To cancel a setting, select the "▲" within the character selection area and press the SELECT dial. The unit will return to the previous screen (SERVER SETUP menu screen).

5. When completed, select "↲" within the character selection area and press the SELECT dial.
 ● When changing the HTTP USER NAME or FTP USER NAME, "NEXT STEP SET PASSWORD" will appear on the screen and the PASSWORD menu screen is displayed. Set the password using the procedure shown above.

When setting is completed for items other than HTTP USER NAME and FTP USER NAME, the unit will return to the previous screen (NETWORK MAIN SETUP or SERVER SETUP menu screen).
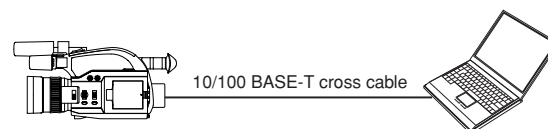

Setup of the GY-DV300 When using a wired LAN and one PC

When connecting a single PC to the GY-DV300/KA-DV350 in 1-to-1 connection scheme, set up the IP addresses and subnet masking as described in the following.
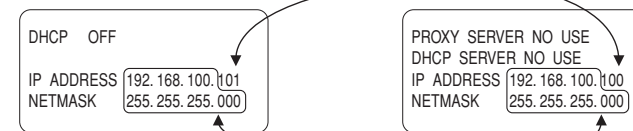
Detailed IP Address settings (LAN)

 • For the PC settings when using a LAN card, refer to the instruction manual included with the LAN card.

 • Up to 3 clients can access at the same time.

10/100 BASE-T cross cable

Set a unique number to avoid doubling

```
DHCP   OFF


IP ADDRESS  192. 168. 100. 101
NETMASK     255. 255. 255. 000
```

```
PROXY SERVER NO USE
DHCP SERVER NO USE
IP ADDRESS  192. 168. 100. 100
NETMASK     255. 255. 255. 000
```

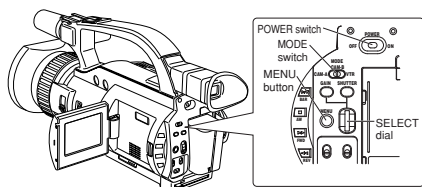Set the same network group

Setup of the GY-DV300 When using a wired LAN and multiple PCs

When using a LAN card, network related settings for KA-DV350 are made using NETWORK MAIN SETUP of the NETWORK PACK CONFIG menu. Settings will be stored in the KA-DV350 memory even when turning the power off.

Display the NETWORK SETUP menu screen

Memo

• Settings are made by viewing the LCD screen or viewfinder screen. If OUTPUT CHAR of the DISPLAY [2/2] menu screen is set to MIX, the menu screen also appears on the monitor screen connected to the VIDEO OUT or Y/C connector.

• It is possible to set the menu without installing a LAN card.

POWER switch
MODE switch
MENU button
SELECT dial

\<GY-DV300 rear panel\>

TOP MENU screen

```
--- MENU ---
MODE              MANUAL
EARHONE LEVEL 10
SYSTEM SET..
DISPLAY SET..
CAMERA SET[CAM-A]..
OPERATION[CAM-A]..
CLOCK/TC..
MENU ALL RESET  CANCEL
▶NETWORK PACK CONFIG..
EXIT
```

NETWORK PACK CONFIG menu screen

```
- NETWORK PACK CONFIG -
▶NETWORK MAIN SETUP..
 ENCODE SETUP..
 MPEG REC          TRIG
 MOVIE CLIP SETUP..
 MENU RESET      CANCEL
 PAGE BACK
 (WMP under 8)(CF Viewer)
```

NETWORK MAIN menu screen

```
--- NETWORK MAIN ---
▶NETWORK SETUP..
 PORT SETUP..
 WIRELESS LAN SETUP..
 SERVER SETUP..
 PAGE BACK
```

NETWORK SETUP menu screen

```
--- NETWORK SETUP ---
▶HOST NAME..
 DHCP            OFF
 IP ADDRESS..
 SUBNET MASK..
 GATEWAY..
 PAGE BACK
```

1. Turn on the GY-DV300 power.

2. Press the MENU button to display the TOP MENU screen.
• Turn the SELECT dial, move the cursor (▶) to NETWORK PACK CONFIG and press the SELECT dial.
• The NETWORK PACK CONFIG menu screen appears.

3. Turn the SELECT dial, move the cursor (▶) to NETWORK MAIN SETUP and press the SELECT dial.
• The NETWORK MAIN menu screen will appear.
The NETWORK MAIN menu screen is structured by 4 screens.
  NETWORK SETUP
  PORT SETUP
  WIRELESS LAN SETUP
  SERVER SETUP

4. Turn the SELECT dial, move the cursor (▶) to one SETUP and press the SELECT dial.
• The selected one SETUP screen appears.
Items with ".." at the end of the name are set in the INPUT screen.

5. To return to the NETWORK MAIN menu screen, select PAGE BACK and press the SELECT dial.

6. To return to the normal screen after completing setting, perform one of the following operations.
• Press the MENU button
• Select PAGE BACK to return to the TOP MENU screen. Select EXIT in the TOP MENU screen and press the SELECT dial.

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Setup of the GY-DV300 When using a wired LAN and multiple PCs

Setting user names and passwords

Memo

• Do not forget to take a memo of the password. The password cannot be redisplayed.

• Each character input on the PASSWORD menu screen is hidden using asterisks (*).

• When performing MENU RESET, the unit will return the default factory settings.

Set LEAP, HTTP and FTP PASSWORD using the procedure shown below.

1. First, enter the currently used password when "ENTER OLD PASSWORD" is displayed.

2. Next, enter the new password when "ENTER NEW PASS-WORD" is displayed.

3. Lastly, enter the new password again when "CONFIRM NEW PASSWORD" is displayed.

■ Changing the user name

When changing the HTTP USER NAME or FTP USER NAME, "NEXT STEP SET PASSWORD" will appear on the screen and the PASSWORD menu screen is displayed.
When input is canceled in the PASSWORD menu screen, the user name will also be canceled.
It is possible to change only the password.
When changing the LEAP USER NAME setting, the PASSWORD menu screen will not appear automatically.
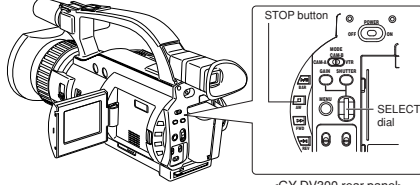
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Setup of the GY-DV300 When using a wired LAN and multiple PCs

Network related settings are made in the individual input setting screens.
Here, HTTP USER NAME is set as an example. Other settings are also made in the same manner.
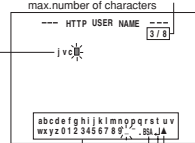
Setup for network settings

Memo

Example:
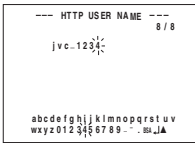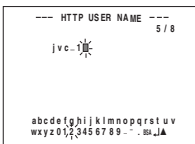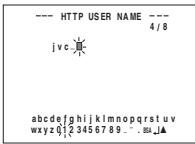Changing HTTP USER NAME from
jvc to jvc_1234

STOP button

SELECT
dial

<GY-DV300 rear panel>

HTTP USER NAME input setting screen

Currently inputted number of characters/
max.number of characters

```
--- HTTP USER NAME ---
                        3 / 8
   j v c

abcdefghijklmnopqrstuv
wxyz0123456789 - . BS ↲▲
```

Setting area   Character
                selection area
BS: Backspace (delete previous character)

↲ : The set text is confirmed and
    returns to the previous screen.

▲ : The set text is canceled and
    returns to the previous screen.

1. Select HTTP USER NAME in the SERVER SETUP menu screen and press the SELECT dial.
   - The HTTP USER NAME input setting screen appears.

2. Characters are selected from the character selection area on the bottom of the screen.
   Turn the SELECT dial to flash "_" in the character selection area and press the SELECT dial.
   - The setting changes to "jvc_" and the following digit of the setting area flashes.

3. Turn the SELECT dial to select "1" in the character selection area and press the SELECT. dial.
   - The setting changes to "jvc_1" and the following digit of the setting area flashes.

```
--- HTTP USER NAME ---
                        4 / 8
   j v c _

abcdefghijklmnopqrstuv
wxyz0123456789 - . BS ↲▲
```

4. Repeat the above step to set "jvc_1234" in the setting area.
   - To delete or edit set characters, select "BS" within the character selection area and press the SELECT dial.
   The previous character will be deleted. The character on the left will be deleted each time this operation is repeated.
   - When turning the SELECT dial while holding down the STOP button, the cursor will move 5 characters at a time.
   - The currently inputted number of characters and the maximum number of characters are displayed on the upper right of the screen.
   - To cancel a setting, select the "▲" within the character selection area and press the SELECT dial. The unit will return to the previous screen (SERVER SETUP menu screen).

```
--- HTTP USER NAME ---
                        5 / 8
   j v c _ 1

abcdefghijklmnopqrstuv
wxyz0123456789 - . BS ↲▲
```

5. When completed, select "↲" within the character selection area and press the SELECT dial.
   ● When changing the HTTP USER NAME or FTP USER NAME, "NEXT STEP SET PASSWORD" will appear on the screen and the PASSWORD menu screen is displayed. Set the password using the procedure shown above.

```
--- HTTP USER NAME ---
                        8 / 8
   j v c _ 1234

abcdefghijklmnopqrstuv
wxyz0123456789 - . BS ↲▲
```

Memo

When setting is completed for items other than HTTP USER NAME and FTP USER NAME, the unit will return to the previous screen (NETWORK MAIN SETUP or SERVER SETUP menu screen).
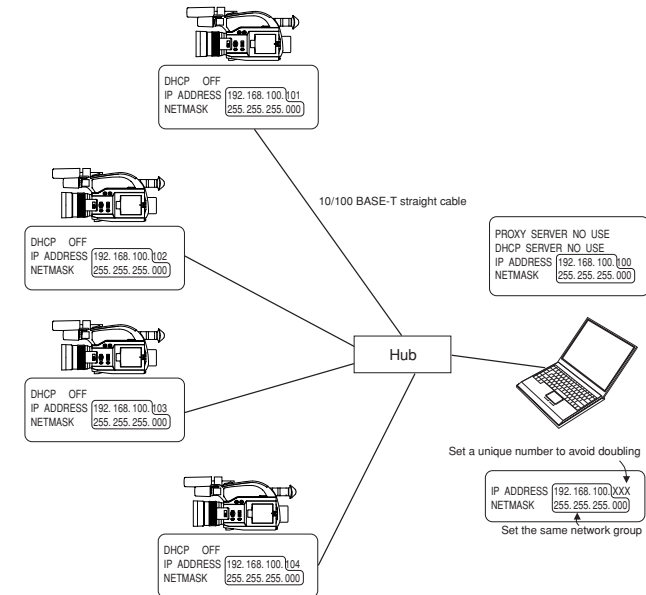

Setup of the GY-DV300 When using a wired LAN and multiple PCs

When connecting multiple PCs to the GY-DV300/KA-DV350, set up the IP addresses and subnet masking as described in the following.

Detailed IP Address settings (LAN)

Memo

- For the PC settings when using a LAN card, refer to the instruction manual included with the LAN card.
- Up to 3 clients can access at the same time.


```
DHCP   OFF
IP ADDRESS   192.168.100.101
NETMASK      255.255.255.000
```

10/100 BASE-T straight cable

```
DHCP   OFF
IP ADDRESS   192.168.100.102
NETMASK      255.255.255.000
```

```
PROXY SERVER NO USE
DHCP SERVER NO USE
IP ADDRESS   192.168.100.100
NETMASK      255.255.255.000
```

```
DHCP   OFF
IP ADDRESS   192.168.100.103
NETMASK      255.255.255.000
```

Hub

Set a unique number to avoid doubling

```
IP ADDRESS   192.168.100.XXX
NETMASK      255.255.255.000
```

Set the same network group

```
DHCP   OFF
IP ADDRESS   192.168.100.104
NETMASK      255.255.255.000
```

When using a LAN card, network related settings for KA-DV350 are made using NETWORK MAIN SETUP of the NETWORK PACK CONFIG menu. Settings will be stored in the KA-DV350 memory even when turning the power off.

INTRODUCTION
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Display the NETWORK SETUP menu screen

Memo

• Settings are made by viewing the LCD screen or viewfinder screen. If OUTPUT CHAR of the DISPLAY [2/2] menu screen is set to MIX, the menu screen also appears on the monitor screen connected to the VIDEO OUT or Y/C connector.

• It is possible to set the menu without installing a LAN card.

POWER switch
MODE switch
MENU button
SELECT dial

<GY-DV300 rear panel>

TOP MENU screen

```
––– MENU –––
MODE            MANUAL
EARHONE LEVEL 10
SYSTEM SET..
DISPLAY SET..
CAMERA SET[CAM-A]..
OPERATION[CAM-A]..
CLOCK/TC..
MENU ALL RESET  CANCEL
▶NETWORK PACK CONFIG..
EXIT
```

1. Turn on the GY-DV300 power.

2. Press the MENU button to display the TOP MENU screen.
• Turn the SELECT dial, move the cursor (▶) to NETWORK PACK CONFIG and press the SELECT dial.
• The NETWORK PACK CONFIG menu screen appears.

NETWORK PACK CONFIG menu screen

```
– NETWORK PACK CONFIG –
▶NETWORK MAIN SETUP..
 ENCODE SETUP..
 MPEG REC         TRIG
 MOVIE CLIP SETUP..
 MENU RESET     CANCEL
 PAGE BACK
 (WMP under 8)(CF Viewer)
```

3. Turn the SELECT dial, move the cursor (▶) to NETWORK MAIN SETUP and press the SELECT dial.
• The NETWORK MAIN menu screen will appear.
The NETWORK MAIN menu screen is structured by 4 screens.
    NETWORK SETUP
    PORT SETUP
    WIRELESS LAN SETUP
    SERVER SETUP

NETWORK MAIN menu screen

```
––– NETWORK MAIN –––
▶NETWORK SETUP..
 PORT SETUP..
 WIRELESS LAN SETUP..
 SERVER SETUP..
 PAGE BACK
```

4. Turn the SELECT dial, move the cursor (▶) to one SETUP and press the SELECT dial.
• The selected one SETUP screen appears.
Items with ".." at the end of the name are set in the INPUT screen.

5. To return to the NETWORK MAIN menu screen, select PAGE BACK and press the SELECT dial.

6. To return to the normal screen after completing setting, perform one of the following operations.
• Press the MENU button
• Select PAGE BACK to return to the TOP MENU screen. Select EXIT in the TOP MENU screen and press the SELECT dial.

NETWORK SETUP menu screen

```
––– NETWORK SETUP –––
▶HOST NAME..
 DHCP           OFF
 IP ADDRESS..
 SUBNET MASK..
 GATEWAY..
 PAGE BACK
```

INTRODUCTION
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Setting user names and passwords

Memo

• Do not forget to take a memo of the password. The password cannot be redisplayed.

• Each character input on the PASSWORD menu screen is hidden using asterisks (*).

• When performing MENU RESET, the unit will return the default factory settings.

Set LEAP, HTTP and FTP PASSWORD using the procedure shown below.

1. First, enter the currently used password when "ENTER OLD PASSWORD" is displayed.

2. Next, enter the new password when "ENTER NEW PASS-WORD" is displayed.

3. Lastly, enter the new password again when "CONFIRM NEW PASSWORD" is displayed.

■ **Changing the user name**
When changing the HTTP USER NAME or FTP USER NAME, "NEXT STEP SET PASSWORD" will appear on the screen and the PASSWORD menu screen is displayed.
When input is canceled in the PASSWORD menu screen, the user name will also be canceled.
It is possible to change only the password.
When changing the LEAP USER NAME setting, the PASSWORD menu screen will not appear automatically.
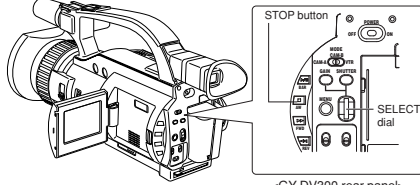
Setup of the GY-DV300 ^{} When using a wireless LAN and one PC

Network related settings are made in the individual input setting screens.
Here, HTTP USER NAME is set as an example. Other settings are also made in the same manner.
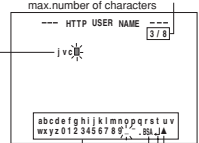
Setup for network settings

Memo

Example:
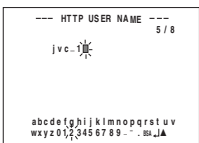Changing HTTP USER NAME from
jvc to jvc_1234

STOP button

SELECT dial

<GY-DV300 rear panel>

HTTP USER NAME input setting screen

Currently inputted number of characters/
max.number of characters

```
--- HTTP USER NAME ---            3 / 8
        j v c
        
        
   abcde f g h i j k l m n o p q r s t u v
   w x y z 0 1 2 3 4 5 6 7 8 9 - ˙ . BS ↲ ▲
```

Setting area

Character selection area

BS: Backspace (delete previous character)

↲ : The set text is confirmed and returns to the previous screen.

▲ : The set text is canceled and returns to the previous screen.

1. Select HTTP USER NAME in the SERVER SETUP menu screen and press the SELECT dial.
• The HTTP USER NAME input setting screen appears.

2. Characters are selected from the character selection area on the bottom of the screen.
Turn the SELECT dial to flash "_" in the character selection area and press the SELECT dial.
• The setting changes to "jvc_" and the following digit of the setting area flashes.

3. Turn the SELECT dial to select "1" in the character selection area and press the SELECT. dial.
• The setting changes to "jvc_1" and the following digit of the setting area flashes.

```
--- HTTP USER NAME ---            4 / 8
        j v c
        
        
   abcde f g h i j k l m n o p q r s t u v
   w x y z 0 1 2 3 4 5 6 7 8 9 - ˙ . BS ↲ ▲
```

4. Repeat the above step to set "jvc_1234" in the setting area.
• To delete or edit set characters, select "BS" within the character selection area and press the SELECT dial.
  The previous character will be deleted. The character on the left will be deleted each time this operation is repeated.
• When turning the SELECT dial while holding down the STOP button, the cursor will move 5 characters at a time.
• The currently inputted number of characters and the maximum number of characters are displayed on the upper right of the screen.
• To cancel a setting, select the "▲" within the character selection area and press the SELECT dial. The unit will return to the previous screen (SERVER SETUP menu screen).

```
--- HTTP USER NAME ---            5 / 8
        j v c _ 1
        
        
   abcde f g h i j k l m n o p q r s t u v
   w x y z 0 1 2 3 4 5 6 7 8 9 - ˙ . BS ↲ ▲
```

5. When completed, select "↲" within the character selection area and press the SELECT dial.
● When changing the HTTP USER NAME or FTP USER NAME, "NEXT STEP SET PASSWORD" will appear on the screen and the PASSWORD menu screen is displayed. Set the password using the procedure shown above.

```
--- HTTP USER NAME ---            8 / 8
        j v c _ 1 2 3 4
        
        
   abcde f g h i j k l m n o p q r s t u v
   w x y z 0 1 2 3 4 5 6 7 8 9 - ˙ . BS ↲ ▲
```

Memo

When setting is completed for items other than HTTP USER NAME and FTP USER NAME, the unit will return to the previous screen (NETWORK MAIN SETUP or SERVER SETUP menu screen).
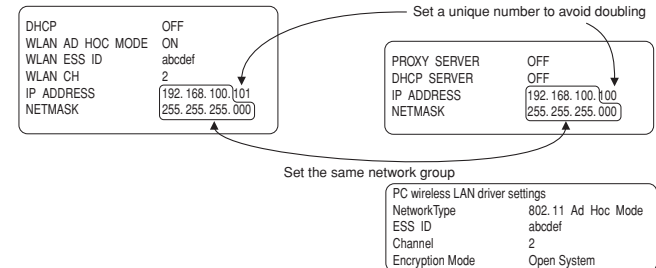

Setup of the GY-DV300 ^{} When using a wireless LAN and one PC

When connecting a single PC to the GY-DV300/KA-DV350 in a 1-to-1 connection scheme, set up the IP addresses and subnet masking as described in the following. Note that the following connection method is an example for communicating with the PC without using an access point (Ad hoc mode)

Detailed IP Address settings (LAN)

Memo

• For the PC settings when using a LAN card, refer to the instruction manual included with the LAN card.

• Do not perform encryption of the wireless LAN.

Set a unique number to avoid doubling

DHCP	OFF
WLAN AD HOC MODE	ON
WLAN ESS ID	abcdef
WLAN CH	2
IP ADDRESS	192. 168. 100. 101
NETMASK	255. 255. 255. 000

PROXY SERVER	OFF
DHCP SERVER	OFF
IP ADDRESS	192. 168. 100. 100
NETMASK	255. 255. 255. 000

Set the same network group

PC wireless LAN driver settings
NetworkType	802. 11 Ad Hoc Mode
ESS ID	abcdef
Channel	2
Encryption Mode	Open System

When using a LAN card, network related settings for KA-DV350 are made using NETWORK MAIN SETUP of the NETWORK PACK CONFIG menu. Settings will be stored in the KA-DV350 memory even when turning the power off.

Display the NETWORK SETUP menu screen

Memo

• Settings are made by viewing the LCD screen or viewfinder screen.

• If OUTPUT CHAR of the DISPLAY [2/2] menu screen is set to MIX, the menu screen also appears on the monitor screen connected to the VIDEO OUT or Y/C connector.

POWER switch
MODE switch
MENU button
SELECT dial

<GY-DV300 rear panel>

TOP MENU screen

```
––– MENU –––
MODE              MANUAL
EARHONE LEVEL 10
SYSTEM SET..
DISPLAY SET..
CAMERA SET[CAM-A]..
OPERATION[CAM-A]..
CLOCK/TC..
MENU ALL RESET  CANCEL
▶NETWORK PACK CONFIG..
EXIT
```

NETWORK PACK CONFIG menu screen

```
– NETWORK PACK CONFIG –
▶NETWORK MAIN SETUP..
 ENCODE SETUP..
 MPEG REC         TRIG
 MOVIE CLIP SETUP..
 MENU RESET     CANCEL
 PAGE BACK
 (WMP under 8)(CF Viewer)
```

NETWORK MAIN menu screen

```
––– NETWORK MAIN –––
▶NETWORK SETUP..
 PORT SETUP..
 WIRELESS LAN SETUP..
 SERVER SETUP..
 PAGE BACK
```

NETWORK SETUP menu screen

```
––– NETWORK SETUP –––
▶HOST NAME..
 DHCP          OFF
 IP ADDRESS..
 SUBNET MASK..
 GATEWAY..
 PAGE BACK
```

1. Turn on the GY-DV300 power.

2. Press the MENU button to display the TOP MENU screen.
• Turn the SELECT dial, move the cursor (▶) to NETWORK PACK CONFIG and press the SELECT dial.
• The NETWORK PACK CONFIG menu screen appears.

3. Turn the SELECT dial, move the cursor (▶) to NETWORK MAIN SETUP and press the SELECT dial.
• The NETWORK MAIN menu screen will appear.
The NETWORK MAIN menu screen is structured by 4 screens.
   NETWORK SETUP
   PORT SETUP
   WIRELESS LAN SETUP
   SERVER SETUP

4. Turn the SELECT dial, move the cursor (▶) to one SETUP and press the SELECT dial.
• The selected one SETUP screen appears.
Items with ".." at the end of the name are set in the INPUT screen.

5. To return to the NETWORK MAIN menu screen, select PAGE BACK and press the SELECT dial.

6. To return to the normal screen after completing setting, perform one of the following operations.
• Press the MENU button
• Select PAGE BACK to return to the TOP MENU screen. Select EXIT in the TOP MENU screen and press the SELECT dial.

INTRODUCTION PREPARATION OPERATION OTHERS

Setting user names and passwords

Memo

• Do not forget to take a memo of the password. The password cannot be redisplayed.

• Each character input on the PASSWORD menu screen is hidden using asterisks (*).

• When performing MENU RESET, the unit will return the default factory settings.

Set LEAP, HTTP and FTP PASSWORD using the procedure shown below.

1. First, enter the currently used password when "ENTER OLD PASSWORD" is displayed.

2. Next, enter the new password when "ENTER NEW PASS-WORD" is displayed.

3. Lastly, enter the new password again when "CONFIRM NEW PASSWORD" is displayed.

■ Changing the user name
When changing the HTTP USER NAME or FTP USER NAME, "NEXT STEP SET PASSWORD" will appear on the screen and the PASSWORD menu screen is displayed.
When input is canceled in the PASSWORD menu screen, the user name will also be canceled.
It is possible to change only the password.
When changing the LEAP USER NAME setting, the PASSWORD menu screen will not appear automatically.

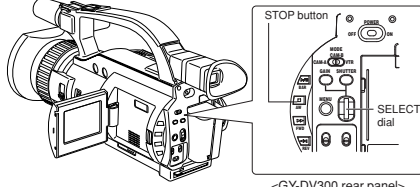INTRODUCTION PREPARATION OPERATION OTHERS

Network related settings are made in the individual input setting screens.
Here, HTTP USER NAME is set as an example. Other settings are also made in the same manner.

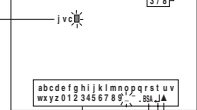### Setup for network settings
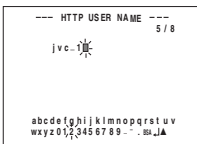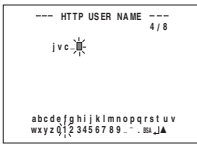
Memo

Example:
Changing HTTP USER NAME from
jvc to jvc_1234

STOP button

SELECT
dial

<GY-DV300 rear panel>

HTTP USER NAME input setting screen

Currently inputted number of characters/
max.number of characters

```
––– HTTP USER NAME –––
                          3 / 8
    j v c

  a b c d e f g h i j k l m n o p q r s t u v
  w x y z 0 1 2 3 4 5 6 7 8 9 – . BS ↵ ▲
```

Setting area   Character
                selection area
BS: Backspace (delete previous character)

↵ : The set text is confirmed and
    returns to the previous screen.

▲ : The set text is canceled and
    returns to the previous screen.

1. Select HTTP USER NAME in the SERVER SETUP menu screen and press the SELECT dial.
  • The HTTP USER NAME input setting screen appears.

2. Characters are selected from the character selection area on the bottom of the screen.
Turn the SELECT dial to flash "_" in the character selection area and press the SELECT dial.
  • The setting changes to "jvc_" and the following digit of the setting area flashes.

3. Turn the SELECT dial to select "1" in the character selection area and press the SELECT. dial.
  • The setting changes to "jvc_1" and the following digit of the setting area flashes.

4. Repeat the above step to set "jvc_1234" in the setting area.
  • To delete or edit set characters, select "BS" within the character selection area and press the SELECT dial.
    The previous character will be deleted. The character on the left will be deleted each time this operation is repeated.
  • When turning the SELECT dial while holding down the STOP button, the cursor will move 5 characters at a time.
  • The currently inputted number of characters and the maximum number of characters are displayed on the upper right of the screen.
  • To cancel a setting, select the "▲" within the character selection area and press the SELECT dial. The unit will return to the previous screen (SERVER SETUP menu screen).

```
––– HTTP USER NAME –––
                          4 / 8
    j v c

  a b c d e f g h i j k l m n o p q r s t u v
  w x y z 0 1 2 3 4 5 6 7 8 9 – . BS ↵ ▲
```

```
––– HTTP USER NAME –––
                          5 / 8
    j v c _ 1

  a b c d e f g h i j k l m n o p q r s t u v
  w x y z 0 1 2 3 4 5 6 7 8 9 – . BS ↵ ▲
```

5. When completed, select "↵" within the character selection area and press the SELECT dial.
  ● When changing the HTTP USER NAME or FTP USER NAME, "NEXT STEP SET PASSWORD" will appear on the screen and the PASSWORD menu screen is displayed. Set the password using the procedure shown above.

```
––– HTTP USER NAME –––
                          8 / 8
    j v c _ 1 2 3 4

  a b c d e f g h i j k l m n o p q r s t u v
  w x y z 0 1 2 3 4 5 6 7 8 9 – . BS ↵ ▲
```

Memo

When setting is completed for items other than HTTP USER NAME and FTP USER NAME, the unit will return to the previous screen (NETWORK MAIN SETUP or SERVER SETUP menu screen).

When connecting multiple PCs to the GY-DV300/KA-DV350, set up the IP addresses and subnet masking as described in the following. Note that the following connection method is an example for communicating with the PC through an access point (Infrastructure mode).

Detailed IP Address settings (LAN)

Memo

• For network settings and LAN card driver settings, refer to the respective instruction manuals.

• For the PC settings when using a LAN card, refer to the instruction manual included with the LAN card.

```
DHCP                OFF
WLAN AD HOC MODE    OFF
WLAN ESS ID        abcdef
WLAN CH             2

IP ADDRESS      192. 168. 100. 101
NETMASK         255. 255. 255. 000
```

```
DHCP                OFF
WLAN AD HOC MODE    OFF
WLAN ESS ID        abcdef
WLAN CH             2

IP ADDRESS      192. 168. 100. 102
NETMASK         255. 255. 255. 000
```

```
DHCP                OFF
WLAN AD HOC MODE    OFF
WLAN ESS ID        abcdef
WLAN CH             2

IP ADDRESS      192. 168. 100. 103
NETMASK         255. 255. 255. 000
```

STATION
ESS ID abcdef
Channel 2
Encryption Mode Open System

```
PROXY SERVER        NO USE
DHCP SERVER         NO USE
IP ADDRESS      192. 168. 100. 100
NETMASK         255. 255. 255. 000
```

```
PC wireless LAN driver settings
Network Type        Infrastructure
ESS ID              abcdef
Channel             2
Encryption Mode     Open System
```

```
DHCP                OFF
WLAN AD HOC MODE    OFF
WLAN ESS ID        abcdef
WLAN CH             2

IP ADDRESS      192. 168. 100. 104
NETMASK         255. 255. 255. 000
```

Network Type (Ad Hoc/Infrastructure)
Make sure ESS ID and Channel settings are the same.

Set a unique number to avoid doubling

```
IP ADDRESS      192. 168. 100. XXX
NETMASK         255. 255. 255. 000
```

Set the same network group

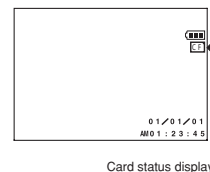# Connection

Inserting

Caution

- Make sure the power of GY-DV300 is off when inserting/removing a LAN card. Inserting/removing a card with the unit power on may damage the data storage section of the LAN card itself.

- Do not remove the power cable with the power of the GY-DV300 on. Recorded section on the LAN Card itself may be damaged as a result.

- Do not use the wireless LAN card continuously for more than 48 hours.
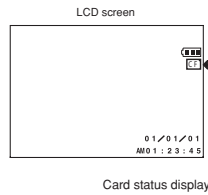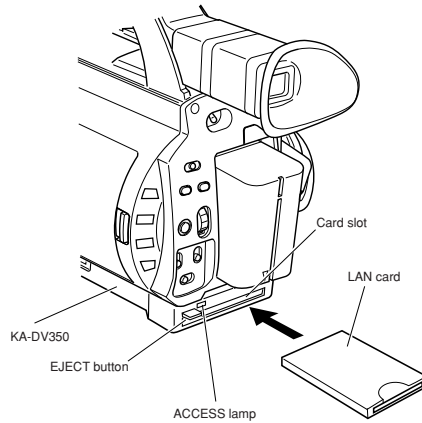
Card slot

LAN card

KA-DV350

EJECT button

ACCESS lamp

LCD screen

01/01/01
AM01:23:45

Card status display

1. Turn off the GY-DV300 power.

2. Insert a card into the KA-DV350 card slot.

3. Turn on the GY-DV300 power.

   Card status according to the inserted card type is displayed on the LCD screen/viewfinder screen. (☞ page 8)

: No card

e : LAN card

CF : CF card

Memo

When turning the power on, the card status display shown on left will flash during initialization.

Removing

Memo

- Check to make sure the ACCESS lamp of KA-DV350 is off.

- The ACCESS lamp will light when the card is in operation.

1. Turn off the GY-DV300 power.

2. Press the EJECT button of KA-DV350 and remove the card.

INTRODUCTION PREPARATION OPERATION OTHERS

Setup of the PC

It is necessary to select whether to use a proxy server or not depending on the network environment.
To determine if you are using a proxy server.

Memo

- When setting the NETWORK PACK SETUP screen (CAM & VTR CONTROL, NETWORK SETUP, PORT SETUP or ENCODE PARAMETERS) and the same menu screen is displayed on the LCD screen or viewfinder of GY-DV300, values set in the NETWORK PACK SETUP screen will not appear on menu screen of the LCD screen or the viewfinder of GY-DV300. The values set in the NETWORK PACK SETUP screen will appear after the menu screen of GY-DV300 is closed once and re-opened.
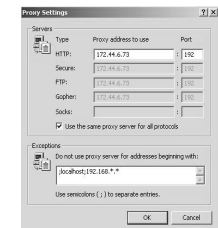
1. From Internet Explorer, click on the 'Tools' in the menu bar, and then click on 'Internet Options'.

2. From the window that opens, click on the 'Connections' tab.

3. From the 'Connections' window, click on the 'LAN Settings' button.

4. If 'Use a proxy server' is checked in the window that opens, then you use a proxy server to access the Internet.
   - If this is not checked, then you don't use a proxy server, and your configuration is complete.

5. Click on the 'Advanced' button.

6. In the 'Exceptions' box of the window that opens, enter the first portion of the KA-DV350's IP address followed by.'*.*' For ex-ample, the IP address of a KA-DV350 may be 192.168.100.101, so 192.168.*.* has been entered

7. Click 'OK' in all open windows.

Local Area Network (LAN) Settings

Proxy Settings

Memo

- When using peer-to-peer communication that directly connects the PC and KA-DV350, deselect the "Use a proxy server" checkbox.

- When the "Use a proxy server" setting must be enabled due to a LAN environment (in-company LAN, etc.) click "Advanced..." and input the IP address of GY-DV300 in "Exceptions" of the "Use a proxy server" setting.

INTRODUCTION PREPARATION OPERATION OTHERS

Setup of the PC
Activating the web browser

Example of peer-to-peer direct connection with the PC

GY-DV300

PC

10 BASE-T
cross cable

KA-DV350
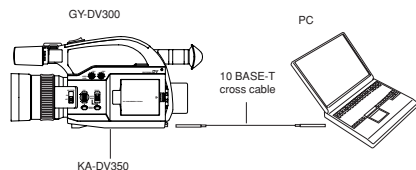
1. Launch the browser on your PC and enter 192.168.100.101 (default factory setting) in the address bar and press ENTER.
   • A confirmation window for user ID and password appears.

2. Input the user ID and password.
   • For the user ID, input "jvc" (factory setting).
   For the password, input "ka-dv300" (factory setting) or the name set in the SERVER SETUP menu screen.
   (☞ page 17)
   • Check to make sure the inputted user ID and password are correct and click the OK icon.
   (Check "Save password" so that the password does not need to be inputted for future accesses.)

```
Enter Network Password                    ? X
   Please enter tour authentication information.    OK
                                          Cancel
   Resource     secured
   User name:  [            ]
   Password:   [            ]
            ☐ Save password?
```

3. If the user ID and password are correct, the Streamcorder screen appears on the PC monitor.

Memo

• Users referred as "jvc" (can be changed) that can perform all operations, "ENCODE" users that can view all data but only change the encoding settings, and "BROWSE" users that can only view data.

• The default password for each user type is "ka-dv300" for "jvc" users, first 4 characters of the password set for "jvc" users for "ENCODE" users (default is "ka-d") and fixed password of "ka-dv" for "BROWSER" users.

• When changing the password, "ENCODE" users will be fixed with the first 4 characters of the set password and "BROWSE" users will be fixed with "ka-dv" as the password.

• The following is an explanation when login is made a user permitted with all operations. In the case of other users, the OK button and Cancel button will be disabled even if operations on the screen are allowed.

• Depending on the cache setting of your browser, the parameters updated in the Camera menu may not be effective immediately.

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Using the CF (Compact Flash) Card
Inserting the card

Inserting

Caution

• Make sure the power of GY-DV300 is off when inserting/removing a CF card. Inserting/removing a card with the unit power on may damage the data storage section of the CF card itself.

• Do not remove the power cable with the power of the GY-DV300 on. Recorded section on the CF card or the CF card itself may be damaged as a result.
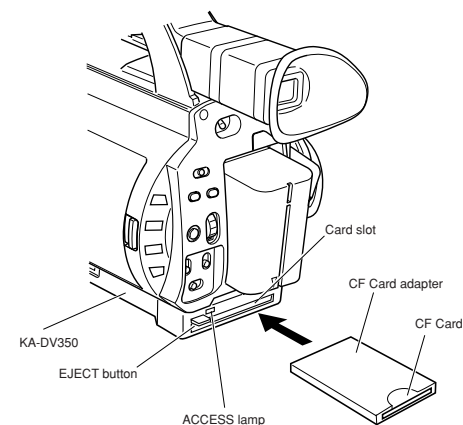
Card slot

CF Card adapter

CF Card

KA-DV350

EJECT button

ACCESS lamp

LCD screen

Card status display

01/01/01
AM01:23:45

1. Turn off the GY-DV300 power.

2. Insert a card into the KA-DV350 card slot.

3. Turn on the GY-DV300 power.

Card status according to the inserted card type is displayed on the LCD screen/viewfinder screen. (☞ page 8)

: No card

e : LAN card

CF : CF card

Memo

When turning the power on, the card status display shown on left will flash during initialization.

Removing

Memo

• Check to make sure the ACCESS lamp of KA-DV350 is off.

• The ACCESS lamp will light when the card is in operation.

1. Turn off the GY-DV300 power.

2. Press the EJECT button of KA-DV350 and remove the card.

Memo

● Remember that when the CF card to be used is in the following conditions, normal recording and playback cannot be made.

   • When the card is not yet formatted
   • When the card is formatted by systems other than the Windows system
   • When formatting cannot be recognized by the KA-DV350

   * Under such circumstances, there can be a case where an error message of "NO CLIP!" appears on the liquid crystal display surface of the GY-DV300 or a case where nothing appears on it.

45

If the CF card is unformatted when performing any of the operations shown below, "NO CF FORMAT" will appear in the LCD screen/viewfinder screen.

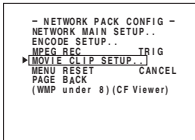- Executing DELETE ALL
- Recording to the CF card

Memo

- If the unit enters MOVIE CLIP by operating the menu or the REC START/STOP button during formatting CF card, a display of the LCD viewer can go wrong. However, if you operate the menu after formatting has been completed, you will be able to regain a normal display.
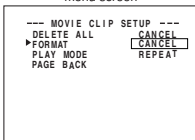
MENU button

SELECT dial

<GY-DV300 rear panel>

NO CF FORMAT!

1. Press the MENU button to display the TOP MENU screen.

2. Use the SELECT dial to select NETWORK PACK CONFIG menu screen → MOVIE CLIP SETUP menu screen.

3. Set FORMAT in the MOVIE CLIP SETUP menu screen to "EX-ECUTE" and press the SELECT dial.
   - The formatting begins. During formatting, "FORMAT" appears on the screen.

NETWORK PACK CONFIG
menu screen

```
- NETWORK PACK CONFIG -
  NETWORK MAIN SETUP..
  ENCODE SETUP..
  MPEG REC        TRIG
▶ MOVIE CLIP SETUP..
  MENU RESET      CANCEL
  PAGE BACK
  (WMP under 8)(CF Viewer)
```

4. When formatting is completed, to the MOVIE CLIP SETUP menu screen returns.
   The FORMAT setting will return to CANCEL.

5. To return to the NETWORK PACK CONFIG menu screen, select PAGE BACK and press the SELECT dial.
   - To return to the normal screen, press the MENU button.

MOVIE CLIP SETUP
menu screen

```
--- MOVIE CLIP SETUP ---
  DELETE ALL      CANCEL
▶ FORMAT          EXECUTE
  PLAY MODE       REPEAT
  PAGE BACK
```

```
~ FORMAT ~
```

Flashing display
during formatting   Set to EXECUTE

Caution

- Before using a CF card, be sure to format the CF card by the KA-DV350 or the Windows system.
  * However, the card is not compatible with the NTFS. When formatting it by the Windows system, you can do so by the systems other than the NTFS.
  *Note that when the CF card is formatted, all the contents of the card will be completely erased.

MOVIE CLIP SETUP
menu screen

```
--- MOVIE CLIP SETUP ---
  DELETE ALL      CANCEL
▶ FORMAT          CANCEL
  PLAY MODE       REPEAT
  PAGE BACK
```

INTRODUCTION | PREPARATION | OPERATION | OTHERS

Recording on a CF card

Memo

- "NO CF FORMAT!" will appear if the inserted CF card is not formatted. Format the card in the MOVIE CLIP SET menu screen. (☞ page 20)
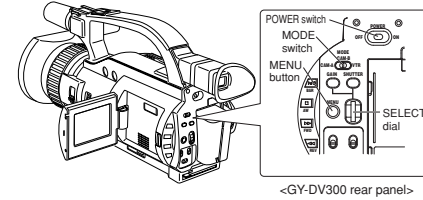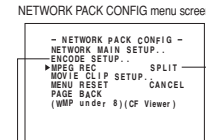
POWER switch
MODE switch
MENU button

SELECT dial

<GY-DV300 rear panel>

CF : Red display during recording
⌙ : Initializing
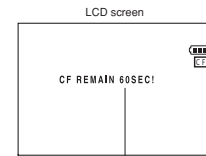
1. Turn on the GY-DV300 power.
   Check to see that the CF display appears on the LCD screen/viewfinder screen. (When the power is turned on, ⌙ display will flash during initialization.)

2. Set the MODE switch to "CAM-A" or "CAM-B".

3. Set the NETWORK PACK CONFIG menu screen.
   - Set MPEG REC to "SPLIT".
   - Set the video/audio compression in the ENCODE SETUP menu screen. (☞ page 18)
   - When completed with settings, press the MENU button to return to the normal screen.

NETWORK PACK CONFIG menu screen

```
- NETWORK PACK CONFIG -
  NETWORK MAIN SETUP..
  ENCODE SETUP..
▶ MPEG REC        SPLIT
  MOVIE CLIP SETUP..
  MENU RESET      CANCEL
  PAGE BACK
  (WMP under 8)(CF Viewer)
```

ENCODE SETUP
menu screen   Set to SPLIT

4. Press the SELECT dial on GY-DV300 to start recording streaming data on the CF card.
   - During recording, CF display will light red.
   - To stop recording, press the SELECT dial.
   - To resume recording, press the SELECT dial once more.

5. To end recording, press the SELECT dial.
   * Before turning off the power, check to make sure the CF indicator on the LCD screen is white.

LCD screen

CF REMAIN 60SEC!

CF card
remaining warning

Memo

- When recording only to the CF card, the clip list will not be registered.
- The CF card remaining warning is displayed on the LCD screen/viewfinder screen. (☞ page 9)
- Pressing the REC START/STOP button of GY-DV300 will start recording to the DV cassette tape.
- When using the SELECT dial for GAIN or SHUTTER operation, no operation on the SELECT dial will be accepted for about 3 seconds after the operation is completed.
- Do not switch over the CAM/VTR mode during recording into the CF card. If the mode is switched over during recording, the display of the LCD viewer can go wrong once in a while. Also, if the mode is switched over immediately after the start of recording into the CF card, some black images can be mixed into a recorded picture.
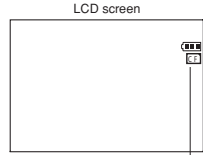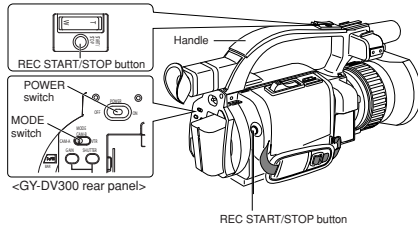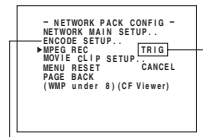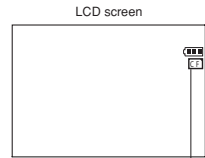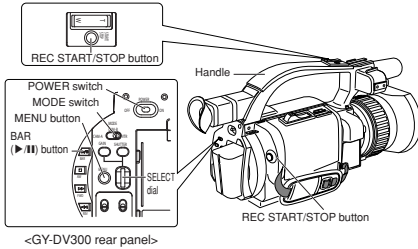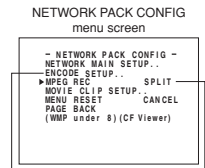
INTRODUCTION | PREPARATION | OPERATION | OTHERS
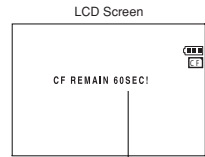
Recording video on a DV cassette tape and CF card

Memo

"NO CF FORMAT!" will appear if the inserted CF card is not formatted. Format the card in the MOVIE CLIP SET menu screen. (☞ page 46)

REC START/STOP button

Handle

POWER switch

MODE switch

\<GY-DV300 rear panel\>

REC START/STOP button

LCD screen

CF : Red display during recording
: Initializing

NETWORK PACK CONFIG menu screen

```
 - NETWORK PACK CONFIG -
 NETWORK MAIN SETUP..
 ENCODE SETUP..
▶MPEG REC        TRIG
 MOVIE CLIP SETUP..
 MENU RESET       CANCEL
 PAGE BACK
 (WMP under 8)(CF Viewer)
```

ENCODE SET menu screen

Set to TRIG

1. Turn on the GY-DV300 power.
Check to see that the CF display appears on the LCD screen/viewfinder screen. (When the power is turned on, display will flash during initialization.)

2. Insert a recordable DV cassette tape.

3. Set the MODE switch to "CAM-A" or "CAM-B".

4. Set the NETWORK PACK CONFIG menu screen.
• Set MPEG REC to "TRIG".
• Set the video/audio compression in the ENCODE SETUP menu screen. (☞ page 18)
• When completed with settings, press the MENU button to return to the normal screen.

5. Press the REC START/STOP button on GY-DV300 to start recording on the DV cassette tape as well as video/audio streaming data on the CF card.
• During CF card recording, CF display will light red.
• To stop recording, press the REC START/STOP button.
• To resume recording, press the REC START/STOP button once more.

6. To end recording, press the REC START/STOP button.

→**OVER**

INTRODUCTION · PREPARATION · OPERATION · OTHERS

Recording video on a DV cassette tape and CF card (cont)

Caution

Before turning off the power, check to make sure the CF indicator on the LCD screen is white.
Turning the power off when the CF indicator is red will damage the recorded clip file.

LCD screen

CF REMAIN 60SEC!
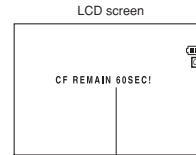
CF card remaining warning

Memo

• When the DV cassette tape has reached the end during recording, CF card recording will also stop.

• When recording to a CF Card while in the TRIG mode, clip list (CSV file) will be created for viewing using the CFViewer.
The CSV file name will be the value of the user's bit (UB) set in GY-DV300. CFViewer will not function properly when there are frequent changes in the UB value (when using UB as the time code). For details concerning UB, please refer to the operator's manual of GY-DV300.

• Video recorded on a CF Card will start slightly slower than that recorded on tape.

• The CF card remaining warning is displayed on the LCD screen/viewfinder screen. (☞ page 9)

• If recording into the CF card is carried out within 5 seconds, either a file cannot be made or it becomes difficult to display a thumbnail (a still picture displayed when CLIP FILE is selected).

• Do not switch over the CAM/VTR mode during recording into the CF card. If the mode is switched over during recording, the display of the LCD viewer can go wrong once in a while. Also, if the mode is switched over immediately after the start of recording into the CF card, some black images can be mixed into a recorded picture.

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Using the CF (Compact Flash) Card

Recording playback signals of a DV cassette tape on a CF card

Memo

"NO CF FORMAT!" will appear if the inserted CF card is not formatted. Format the card in the MOVIE CLIP SET menu screen. (☞ page 46)

REC START/STOP button

Handle

POWER switch
MODE switch
MENU button
BAR
(▶/Ⅱ) button
SELECT dial

REC START/STOP button

<GY-DV300 rear panel>

LCD screen

CF : Red display during recording
: Initializing

NETWORK PACK CONFIG menu screen

```
– NETWORK PACK CONFIG –
  NETWORK MAIN SETUP..
  ENCODE SETUP..
▶MPEG REC         SPLIT
  MOVIE CLIP SETUP..
  MENU RESET      CANCEL
  PAGE BACK
  (WMP under 8)(CF Viewer)
```

ENCODE SETUP menu screen

Set to SPLIT

LCD Screen

CF REMAIN 60SEC!

CF card remaining warning

1. Turn on the GY-DV300 power.
Check to see that the CF display appears on the LCD screen/ viewfinder screen. (When the power is turned on, display will flash during initialization.)

2. Insert the recorded DV cassette tape.

3. Set the MODE switch to "VTR".

4. Set the NETWORK PACK CONFIG menu screen.
• Set MPEG REC to "SPLIT".
• Set the video/audio compression in the ENCODE SET menu screen. (☞ page 18)
• When completed with settings, press the MENU button to return to the normal screen.

5. Press the BAR (▶/Ⅱ) button of GY-DV300 to start DV cassette tape playback.

6. Press the REC START/STOP button or SELECT dial at the scene to start recording on the CF card.
• During recording, the CF display appears in red.
• To stop recording, press the SELECT dial.
• To resume recording, press the SELECT dial once more.

7. To end recording, press the SELECT dial.
* Before turning off the power, check to make sure the CF indicator on the LCD screen is white.

Memo

• When recording only to the CF card, the clip list will not be registered.

• The CF card remaining warning is displayed on the LCD screen/ viewfinder screen.

• Do not switch over the CAM/VTR mode during recording into the CF card. If the mode is switched over during recording, the display of the LCD viewer can go wrong once in a while. Also, if the mode is switched over immediately after the start of recording into the CF card, some black images can be mixed into a recorded picture.

• While recording DV input to a CF Card in the SPLIT mode, do not operate the VTR section. Recording to the CF Card may stop as a result.

Using the CF (Compact Flash) Card

Estimated recording time of CF cards is shown below. The recording time may be shorter than the above estimate depending on the movement of the subject.

CF memory card size	BIT RATE		
	384kbps	256kbps	128kbps ~ 56kbps
16MByte	3min.	5min.	10min. or more
32MByte	7min.	11min.	20min. or more
64MByte	15min.	22min.	40min. or more
128MByte	30min.	44min.	80min. or more
192MByte	46min.	66min.	120min. or more
256MByte	61min.	88min.	160min. or more

Memo

• Clip file numbers of clip files are generated from the last number of the file in the PC card. If the last file is erased when the power is turned on, that number will not be used. After formatting, numbers will be generated from 0001.

• The generated time of the clip file is the time when recording is completed.

When simultaneously recording the camera image to a DV cassette and CF card, recording event will be registered to the clip list of the CF card each time recording is performed. The clip list is stored with the recorded event number (clip number) and the date/time when the recording was started. All events (clip numbers) can be played back on the MOVIE CLIP screen.
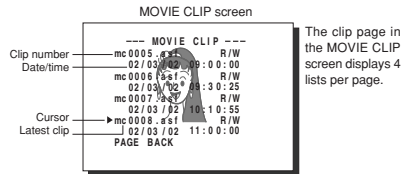
Memo

• MOVIE CLIP will not appear during card initialization (flashing display).

• When a MOVIE CLIP menu item is selected and the SELECT dial is pressed with no clips recorded on the CF card, "NO CLIP!" will flash for about 3 seconds.

• If there is no CF card inserted, "NO CF CARD!" will flash for about 3 seconds.
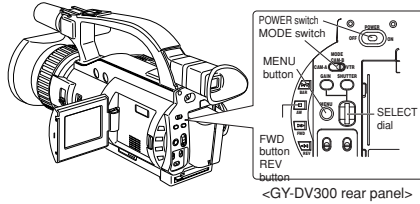
POWER switch
MODE switch
MENU button
SELECT dial
FWD button
REV button

<GY-DV300 rear panel>

1. Turn on the GY-DV300 power.
Check to see that the CF display appears on the LCD screen/viewfinder screen. (When the power is turned on, display will flash during initialization.)

2. Set the MODE switch to "VTR".

3. Make sure GY-DV300 is not in operation.

4. Display the MOVIE CLIP screen.
• Press the MENU button to display the TOP MENU screen.
• Turn the SELECT dial, move the cursor (▶) to MOVIE CLIP and press the SELECT dial.
• The movie clip list of the latest clip page recorded on the CF card and the still image (starting point) of the latest clip number appear by overlapping.

TOP MENU screen

```
--- MENU ---
VTR SET..
SYSTEM SET..
DISPLAY SET..
CLOCK/TC..
MENU ALL RESET   CANCEL
NETWORK PACK CONFIG..
▶MOVIE CLIP..
EXIT
```

MOVIE CLIP screen

```
--- MOVIE CLIP ---
mc0005.asf        R/W
02/03/02  09:00:00
mc0006.asf        R/W
02/03/02  09:30:25
mc0007.asf        R/W
02/03/02  10:10:55
▶mc0008.asf       R/W
02/03/02  11:00:00
PAGE BACK
```

Clip number
Date/time
Cursor
Latest clip

The clip page in the MOVIE CLIP screen displays 4 lists per page.

CLIP FUNCTION screen

```
--- MOVIE CLIP ---
mc0008.asf     R/W


▶REVIEW
 DELETE
 PROTECT
 PAGE BACK
```

Selected clip number

Still image (starting point) of the selected clip

5. Select the clip to play back.
• Turn the SELECT dial and move the cursor (▶) to the clip to play back.
• Turning the SELECT dial up scrolls to the page with smaller (older) clip numbers.
• Turning the SELECT dial down scrolls to the page with larger (newer) clip numbers.
• Press the [FWD] button to scroll to the next page. Press the [REV] button to scroll to the previous page.
• Press and hold the [FWD] button for about 2 seconds to scroll to the page with the newest clip.
• Press and hold the [REV] button for about 2 seconds to scroll to the page with the oldest clip.

6. Press the SELECT dial.
CLIP FUNCTION screen of the selected clip appears.
• Still image (starting point) of the selected clip appears.

→**OVER**

CLIP FUNCTION screen

```
--- MOVIE CLIP ---
mc0008.asf     R/W


▶REVIEW
 DELETE
 PROTECT
 PAGE BACK
```

REVIEW   PAGE BACK

PLAY MODE screen

```
--- MOVIE CLIP ---
mc0008.asf     R/W



PLAY            85k
▶PAGE BACK
```

The BIT RATE used for recording is displayed.
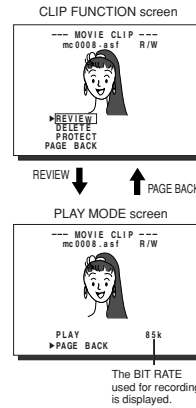
7. Play back the clip.
Turn the SELECT dial, move the cursor to REVIEW and press the SELECT dial.
• The movie clip is played back after the clip number flashes. The value of the recorded frame size (320 × 240 or 160 × 120) appears during displaying the still image. The value of the recorded max. bit rate appears during playback.

8. To pause playback, press the BAR (▶/II) button.
• To resume playback, press the BAR (▶/II) button once more.

■ The following operations are performed when the playback of the selected clip ends. (when the PLAY MODE item is set to OFF.)
• When there are no following clips, the unit pauses at the beginning of the current clip.
• If following clips exist, the clip number. flashes and then playback is performed.
• Selecting PAGE BACK during playback or pausing and press the SELECT dial will return to the MOVIE CLIP screen.

Memo

• The video encoded by the KA-DV350 is so designed that it is displayed in a correct aspect ratio by personal computer monitor. When the CF played-back video is viewed by video-out connector output of the GY-DV300 or observed on a LCD screen, the aspect ratio may look different. This is because a simple output is made on the video for a personal computer and is therefore normal and not a malfunction.

• When PLAY MODE in the MOVIE CLIP SETUP screen is set to "REPEAT", repeat playback is performed. (☞ page 20)

• This feature is for the easy checking of MOVIE CLIP contents. Although video or audio may stop during the middle of playback depending on the operational environment, this is not caused by an abnormality in the MOVIE CLIP itself. After checking, playback the MOVIE CLIP with the viewer software for the used environment (such as Streamproducer, Windows Media Player, etc.).

INTRODUCTION   PREPARATION   OPERATION   OTHERS

Memo **To move to another clip during playback**

■ **To move to the next clip during middle of playback or pausing, press the FWD (►►) button of GY-DV300.**
  • The playback of the current clip stops and the unit pauses at the starting point of the next clip.
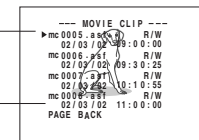 • Pressing the FWD (►►) button again pauses at the starting point of the following the next clip.

Memo
• Playback will remain on the current clip even when the FWD (►►) button is pressed if the latest clip is being played back.

■ **To move to the previous clip during middle of playback or pausing, press the REV (◄◄) button of GY-DV300.**
  • The playback of the current clip stops and the unit pauses at the starting point of the previous clip.
    Pressing the REV (◄◄) button again pauses at the starting point of the clip before the previous clip.

Memo
• Pressing the REV (◄◄) button during play back of the oldest clip will start playback at the starting point of the that clip.

■ **To move to the latest clip during middle of playback or pausing, press the FWD (►►) button of GY-DV300 for more than 2 seconds.**
  • The unit pauses at the starting point of the latest clip.
    To start playback, press the BAR (►/Ⅱ) button.

■ **To move to the oldest clip during middle of playback or pausing, press the REV (◄◄) button of GY-DV300 for more than 2 seconds.**
  • The unit pauses at the starting point of the oldest clip.
    To start playback, press the BAR (►/Ⅱ) button.

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Memo
• When executing FORMAT in the MOVIE CLIP SETUP menu screen, protected clips will also be deleted.

• Protected clips will not be deleted even when executing DELETE ALL in the MOVIE CLIP SETUP menu screen.
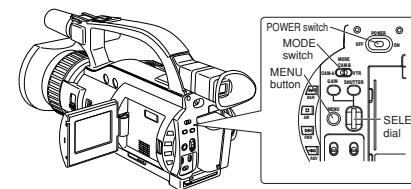
POWER switch
MODE switch
MENU button
SELECT dial

<GY-DV300 rear panel>

TOP MENU screen

```
--- MENU ---
VTR SET..
SYSTEM SET..
DISPLAY SET..
CLOCK/TC..
MENU ALL RESET   CANCEL
NETWORK PACK CONFIG..
▶MOVIE CLIP..
EXIT
```

MOVIE CLIP screen

```
--- MOVIE CLIP ---
▶mc0005.asf       R/W
  02/03/02 09:00:00
 mc0006.asf       R/W
  02/03/02 09:30:25
 mc0007.asf       R/W
  02/03/02 10:10:55
 mc0008.asf       R/W
  02/03/02 11:00:00
PAGE BACK
```

Clip number

CLIP FUNCTIO screen

```
--- MOVIE CLIP ---
  mc0005.asf    R

 REVIEW
 DELETE
▶PROTECT
 PAGE BACK
```

Protected

CLIP FUNCTION screen

```
--- MOVIE CLIP ---
  mc0005.asf    R/W

 REVIEW
 DELETE
▶PROTECT
 PAGE BACK
```

1. Turn on the GY-DV300 power.
  Check to see that the CF display appears on the LCD screen/viewfinder screen. (When the power is turned on, display will flash during initialization.)

2. Set the MODE switch to "VTR".

3. Make sure GY-DV300 is not in operation.

4. Display the MOVIE CLIP screen.
  • Press the MENU button to display the TOP MENU screen.
  • Turn the SELECT dial, move the cursor (►) to MOVIE CLIP and press the SELECT dial.
  • The latest page of the MOVIE CLIP screen appears.
    R/W display appears on the right of the clip number.

5. Select the clip to protect.
  Turn the SELECT dial, move the cursor (►) to the clip to protect and press the SELECT dial.
  • The CLIP FUNCTION screen of the selected clip appears.

6. Turn the SELECT dial, move the cursor to PROTECT in the CLIP FUNCTION screen and press the SELECT dial.

7. To return to the MOVIE CLIP screen after completing setting, select PAGE BACK and press the SELECT dial.

■ **To cancel the protection, select PROTECT in the CLIP FUNCTION screen and press the SELECT dial.**
  ● The R display will change to an R/W display and the protection on the clip will be canceled.

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MOVIE CLIP SETUP of the NETWORK PACK CONFIG menu screen is used to delete all clips on a CF card.

Deleting all clips on a CF card
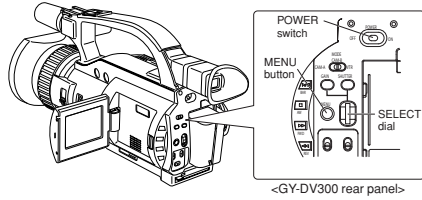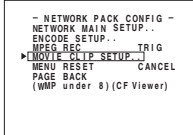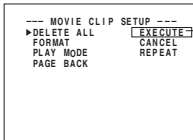
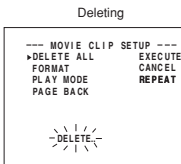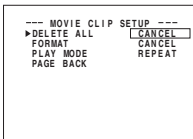POWER switch

MENU button

SELECT dial

<GY-DV300 rear panel>

NETWORK PACK CONFIG
menu screen

```
- NETWORK PACK CONFIG -
  NETWORK MAIN SETUP..
  ENCODE SETUP..
  MPEG REC        TRIG
▶ MOVIE CLIP SETUP..
  MENU RESET    CANCEL
  PAGE BACK
  (WMP under 8)(CF Viewer)
```

MOVIE CLIP SETUP
menu screen

```
--- MOVIE CLIP SETUP ---
▶ DELETE ALL     EXECUTE
  FORMAT         CANCEL
  PLAY MODE      REPEAT
  PAGE BACK
```

Set to EXECUTE

Deleting

```
--- MOVIE CLIP SETUP ---
▶ DELETE ALL     EXECUTE
  FORMAT         CANCEL
  PLAY MODE      REPEAT
  PAGE BACK

      -DELETE.-
```

MOVIE CLIP SETUP
menu screen

```
--- MOVIE CLIP SETUP ---
▶ DELETE ALL     CANCEL
  FORMAT         CANCEL
  PLAY MODE      REPEAT
  PAGE BACK
```

1. Turn on the GY-DV300 power.
Check to see that the CF display appears on the LCD screen/ viewfinder screen.
(The mark will flash when first turning on the power or initialization.)

2. Press the MENU button to display the TOP MENU screen.

3. Use the SELECT dial to select NETWORK PACK CONFIG menu screen → MOVIE CLIP SETUP menu screen.

4. Set DELETE ALL in the MOVIE CLIP SETUP menu screen to "EXECUTE" and press the SELECT dial.
• Deletion is executed and "DELETE.." appears flashing on the screen.

5. When deletion is completed, to the MOVIE CLIP SETUP menu screen returns.
DELETE ALL setting will return to "CANCEL".

6. To return to the NETWORK CONFIG menu screen, select PAGE BACK and press the SELECT dial.
• To return to the normal screen, press the MENU button.

Memo
• Protected clip file and clip list (CSV file) are not deleted.

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Deleting a clip file on a CF card
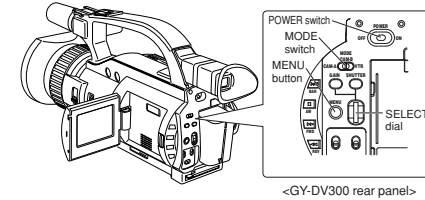
POWER switch
MODE switch
MENU button
SELECT dial

<GY-DV300 rear panel>

TOP MENU screen

```
--- MENU ---
  VTR SET..
  SYSTEM SET..
  DISPLAY SET..
  CLOCK/TC..
  MENU ALL RESET  CANCEL
  NETWORK PACK CONFIG..
▶ MOVIE CLIP..
  EXIT
```

MOVIE CLIP screen

```
--- MOVIE CLIP ---
  mc0005.asf      R/W
    02/03/02 10:00:00
  mc0006.asf      R/W
    02/03/02 11:30:25
  mc0007.asf      R/W
    02/03/02 10:10:55
▶ mc0008.asf      R/W
    02/03/02 11:00:00
  PAGE BACK
```

CLIP FUNCTION screen

```
--- MOVIE CLIP ---
  mc0008.asf    R/W


  REVIEW
▶ DELETE..
  PROTECT
  PAGE BACK
```

Confirmation screen

```
--- MOVIE CLIP ---
  mc0008.asf    R/W



  DELETE OK?
    -DELETE.-
  PAGE BACK
```

Deleting Flashing display

1. Turn on the GY-DV300 power.
Check to see that the CF display appears on the LCD screen/ viewfinder screen. (When the power is turned on, display will flash during initialization.)

2. Set the MODE switch to "VTR".

3. Make sure GY-DV300 is not in operation.

4. Display the MOVIE CLIP screen.
• Press the MENU button to display the TOP MENU screen.
• Turn the SELECT dial, move the cursor (▶) to MOVIE CLIP and press the SELECT dial.
• The latest page of the MOVIE CLIP screen appears.

5. Select the clip to delete.
• Turn the SELECT dial, move the cursor (▶) to the clip to delete and press the SELECT dial.
• The CLIP FUNCTION screen of the selected clip appears.

6. Turn the SELECT dial, move the cursor to DELETE in the CLIP FUNCTION screen and press the SELECT dial.
• A "DELETE OK?" confirmation message appears. (Confirmation screen)

7. To delete, select YES using the SELECT dial and press the SELECT dial.
• "DELETE . ." flashes on the screen for about 5 seconds and then the MOVIE CLIP screen returns. The clip is deleted from the MOVIE CLIP screen.

Memo
• Protected clips cannot be deleted even when selecting DELETE.
In this case, "PROTECT!" will flash for about 2 seconds and then CLIP FUNCTION screen returns.

• After deleting a clip and there are no remaining clips left on the CF card, "NO CLIP!" flashes on the screen for about 3 seconds and then the TOP MENU screen returns.

• To delete all clips, use the MOVIE CLIP SET in the NETWORK PACK CONFIG menu screen. (☞ page 56)

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Memo

For the operating environment of the PC and details of the version of the viewer software, see "PC Operating Environment" on page 6.

CF card — CF Card reader
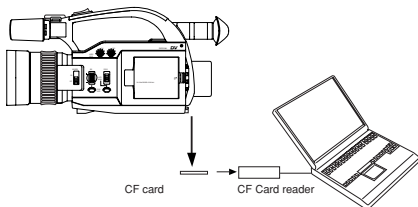
* If the PC is equipped with PCMCIA slot(s), CF card reader is not required.

1. Load data already recorded on a CF card to your PC using a CF card reader, etc.

2. Launch Explorer, etc., and open the recorded clip file in ASF format.
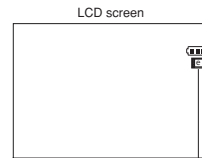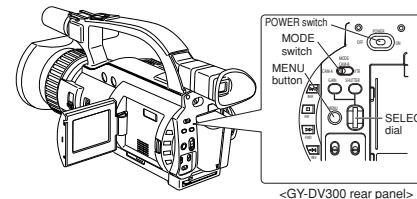   • Windows Media Player launches and the clip is played back.

Memo

• A clip file filed in the CF card is converted into an ASF file and is stored in the "mpeg" folder.

• To play back a clip on your PC, Windows Media Player 7.01 is required. (WM9 is not supported.)
  Windows Media Player is compatible with Windows XP, Windows 2000/98(SE)/Me operating system.
  Media Player can be downloaded from the Microsoft Website.
  During this time, download the following codec software as well.
  The codec software is automatically downloaded when opening the clip file and running Windows Media Player.
  * Video codec (decoder) ISO MPEG4
  * Audio codec (decoder) G.726

• Video and audio files (clip files) in CF cards can be appended to email as attachment files.

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Sending live images of GY-DV300

POWER switch
MODE switch
MENU button
SELECT dial

<GY-DV300 rear panel>

LCD screen

LAN card display

No LAN card is inserted when the display appears. Turn off the power and insert a LAN card. Then, turn the power back on.

NETWORK PACK CONFIG menu screen

```
– NETWORK PACK CONFIG –
 NETWORK MAIN SETUP..
 ENCODE SETUP..
▶MPEG REC            SPLIT
 MOVIE CLIP SETUP..
 MENU RESET          CANCEL
 PAGE BACK
 (WMP under 8)(CF Viewer)
```

ENCODE SET menu screen — Set to SPLIT

Memo

If the mouse is clicked during playback of streaming data using Streamproducer, etc., the audio may be interfered with by noise or be deviated from the video. If this is of concern, open [Sounds and Multimedia] properties from the Windows [Control Panel], select [Start Navigation] for [Windows Explorer] in the list of [Sound Events], and set [Name] to [None]. For details of this setting, refer to Windows [Help].

1. Turn on the GY-DV300 power.
   Check to see that the LAN card display is showing on the LCD screen/viewfinder screen.

2. Set the MODE switch to "CAM-A".

3. Set the NETWORK PACK CONFIG menu screen.
   • Set MPEG REC to "SPLIT".
   • Set the video/audio compress in the ENCODE SETUP menu screen. (☞ page 19)
     When playing back video/audio streaming data using Quick Time, set STREAM TYPE in the ENCODE SETUP menu to "for QT".
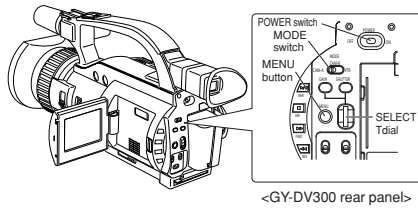   • When completed, press the MENU button to return to the normal screen.

4. When operating Streamproducer and making network connection with KA-DV350, sending of streaming video/audio data will start from the LAN card.
   When pressing the SELECT dial of GY-DV300, recording to the HDD will start.
   • The LAN card display on the LCD screen/viewfinder screen will be as follows:
     e : Red display during data transmission.
   * Perform setting described in "4.2.3 Trigger mode" of network distribution software "Streamproducer" User's Guide.

5. To stop recording to the HDD, press the SELECT dial.
   • Press the SELECT dial to resume recording to the HDD.

6. To end operation, stop the transmission by disconnecting the network connection with KA-DV350 using Streamproducer, then turn off the power.
   Lastly, remove the LAN card.

Memo

• When using the SELECT dial for GAIN or SHUTTER operation, no operation on the SELECT dial will be accepted for about 3 seconds after the operation is completed.

• Pressing the SELECT dial does not record the camera image onto the inserted DV cassette tape.

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Sending video using LAN card while recording on a DV cassette tape

REC START/STOP button

Handle

POWER switch

MODE switch

<GY-DV300 rear panel>

REC START/STOP button

LCD screen

LAN card display

No LAN card is inserted when the ⬜ display appears. Turn off the power and insert a LAN card. Then, turn the power back on.

NETWORK PACK CONFIG menu screen

```
─ NETWORK PACK CONFIG ─
  NETWORK MAIN SETUP..
  ENCODE SETUP..
▶ MPEG REC          ┌TRIG┐
  MOVIE CLIP SETUP..└────┘
  MENU RESET        CANCEL
  PAGE BACK
( WMP under 8 ) (CF Viewer)
```

ENCODE SETUP menu screen   Set to TRIG

Memo

If the mouse is clicked during playback of streaming data using Streamproducer, etc., the audio may be interfered with by noise or be deviated from the video. If this is of concern, open [Sounds and Multimedia] properties from the Windows [Control Panel], select [Start Navigation] for [Windows Explorer] in the list of [Sound Events], and set [Name] to [None]. For details of this setting, refer to Windows [Help].

1. Turn on the GY-DV300 power.
Check to see that the LAN card display is showing on the LCD screen/viewfinder screen.

2. Set the MODE switch to "CAM-A" or "CAM-B".

3. Insert a recordable DV cassette tape.
• GY-DV300 will be in the standby mode.

4. Set the NETWORK PACK CONFIG menu screen.
• Set MPEG REC to "TRIG".
• Set the video/audio compress in the ENCODE SETUP menu screen. (☞ page 18)
When playing back video/audio streaming data using Quick Time, set STREAM TYPE in the ENCODE SETUP menu to "for QT".
• When completed, press the MENU button to return to the normal screen.

5. When pressing the REC START/STOP button of GY-DV300 while Streamproducer is in operation*, transmission of video/audio streaming data from the LAN card is started simultaneously with recording to DV cassette tape.
• The LAN card display on the LCD screen/viewfinder screen will be as follows:
[e] : Red display during data transmission.
* Perform setting described in "4.2.3 Trigger mode" of network distribution software "Streamproducer" User's Guide.

6. To stop transmission or recording, press the REC START/STOP button.
• GY-DV300 will be in the standby mode.
• To resume transmission or recording, press the REC START/STOP button once more.

7. To end, press the REC START/STOP button to stop transmission and recording and turn off the power.
Lastly, remove the LAN card.

Memo

• Streaming data will be sent from the LAN card even when a DV cassette tape is not inserted.

• When the DV cassette tape reaches the end during recording, the transmission of streaming data from the LAN card is also stopped.

Sending images of tape

POWER switch
MODE switch
MENU button

SELECT T dial

<GY-DV300 rear panel>

LCD screen
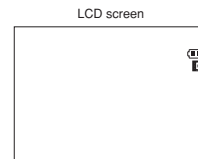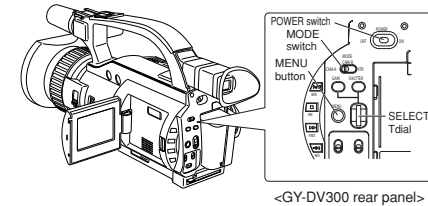
LAN card display

No LAN card is inserted when the ⬜ display appears on. Turn off the power and insert a LAN card. Then, turn the power back on.
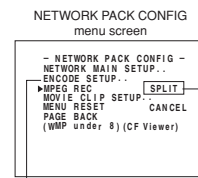
NETWORK PACK CONFIG menu screen

```
─ NETWORK PACK CONFIG ─
  NETWORK MAIN SETUP..
  ENCODE SETUP..
▶ MPEG REC          ┌SPLIT┐
  MOVIE CLIP SETUP..└─────┘
  MENU RESET        CANCEL
  PAGE BACK
( WMP under 8 ) (CF Viewer)
```

ENCODE SETUP menu screen   Set to SPLIT

Memo

If the mouse is clicked during playback of streaming data using Streamproducer, etc., the audio may be interfered with by noise or be deviated from the video. If this is of concern, open [Sounds and Multimedia] properties from the Windows [Control Panel], select [Start Navigation] for [Windows Explorer] in the list of [Sound Events], and set [Name] to [None]. For details of this setting, refer to Windows [Help].

1. Turn on the GY-DV300 power.
Check to see that the LAN card display is showing on the LCD screen/viewfinder screen.

2. Insert the recorded DV cassette tape.

3. Set the MODE switch to "VTR".

4. Set the NETWORK PACK CONFIG menu screen.
• Set MPEG REC to "SPLIT".
• Set the video/audio compression in the ENCODE SETUP menu screen.
When playing back video/audio streaming data using Quick Time, set STREAM TYPE in the ENCODE SETUP menu to "for QT". (☞ page 19)
• When completed with settings, press the MENU button to return to the normal screen.

5. When operating Streamproducer and making network connection with KA-DV350, sending of streaming video/audio data will start from the LAN card.
• The LAN card display on the LCD screen/viewfinder screen will be as follows:
[e] : Red display during data transmission.
* Perform setting described in "4.2.3 Trigger mode" of network distribution software "Streamproducer" User's Guide.

6. Press the BAR (▶/❚❚) button of GY-DV300 to start DV cassette tape playback.

7. Press the SELECT dial at the scene to start HDD recording with Streamproducer.

8. To stop recording to the HDD, press the SELECT dial.
• Press the SELECT dial to resume recording to the HDD.

9. To end operation, first disconnect the network connection and then turn off the power. Lastly, remove the LAN card.
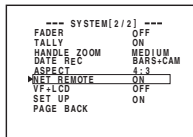
INTRODUCTION
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POWER switch
MODE switch
MENU button
SELECT Tdial

<GY-DV300 rear panel>

SYSTEM [2/2] menu screen

```
  --- SYSTEM[2/2] ---
FADER         OFF
TALLY         ON
HANDLE ZOOM   MEDIUM
DATE REC      BARS+CAM
ASPECT        4:3
NET REMOTE    ON
VF+LCD        OFF
SET UP        ON
PAGE BACK
```
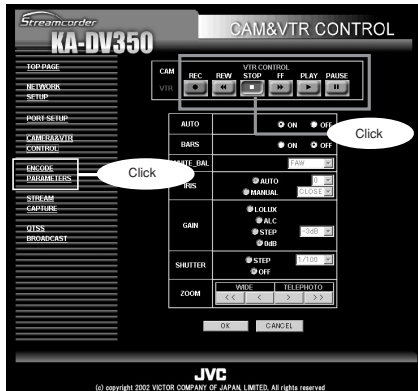
1. Set NET REMOTE in the SYSTEM [2/2] menu screen to ON.

2. Set the MODE switch of the GY-DV300.
   • VTR control icon operations by MODE switch settings of GY-DV300 are as follows.

— : Mode will not change

GY-DV300 state		Clocking VTR control icon				
MODE switch	Previous mode	REC	REW	STOP	FF	PLAY	PAUSE/STILL
VTR	STOP	—	REW		FF	PLAY	—
	FF	—	REW	STOP		PLAY	—
	REW	—	—	STOP	FF	PLAY	—
	PLAY	—	REV SEARCH	STOP	FWD SEARCH	—	STILL
	STILL	—	REV SEARCH	STOP	FWD SEARCH	PLAY	PLAY
	FWD SEARCH	—	REV SEARCH	STOP		PLAY	—
	REV SEARCH	—	—	STOP	FWD SEARCH	PLAY	—
CAM-A or CAM-B	STOP	REC	REW		FF	—	—
	REC	—	—	STOP	—	—	STBY
	STBY	REC	—	STOP	—	—	REC

Memo
• During camera control and VTR control, noise may be heard from the speakers. However, this is not a malfunction. If the noise becomes irritating, open the "Sound & Multimedia" property from the Windows Control Panel and set the sound of "Windows Explorer Start Naviga-tion" of "Sound Events" to off.
  * For setting details, see Windows' Help.
• Depending on the cache setting of your web browser, the parameters updated in the camera's menu may not be effective immediately.

3. In the web control window (Streamcorder) of the PC, click on [CAM&VTR CONTROL].
   • VTR control icon operations by MODE switch settings of GY-DV300 are as follows:

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1. In the web control window (Streamcorder) of the PC, click on [CAM&VTR CONTROL].
   • Now set the displayed items.
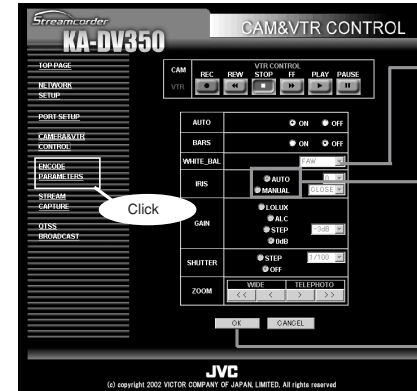
Setting
Select the setting from the pull-down menu.

Adjustment mode selection
Check the desired adjustment mode.

Clicking the OK button will confirm the inputted setting.

Memo
• When setting AUTO to ON, items other than AUTO, BARS and ZOOM will not be available.
• When setting BARS to ON, items other than BARS will not be available.
• When setting GAIN to ALC, IRIS and SHUTTER will not be available.

Item	Adjustment mode	Setting/description
AUTO	ON	Auto mode on. Items other than LOLUX cannot be set.
	OFF	Auto mode off.
BARS	ON	Color bar signals are outputted. Items other than AUTO and LOLUX cannot be set.
	OFF	Color bar signals are not outputted.
WHITE BAL	FAW	Full automatic white balance mode.
	PRESET	White balance will be in the preset state. (3200K)
	MEMORY 1 to 3	White balance setting stored in the GY-DV300 memory will be used.
IRIS	AUTO	Auto iris mode. Iris will be adjusted within the following range: [–3, –2, –1, 0, +1, +2, +3]
	MANUAL	Manual iris mode. Iris will be adjusted within the following range: [CLOSE, F16, F11, F8, F5.6, F4, F2.8, F2, OPEN]
GAIN	LOLUX	Lolux mode
	ALC	ALC (Auto Level Control) mode. IRIS and SHUTTER cannot be set
	STEP	Gain can be set within the following range. 0dB is not available. [–3dB to 18dB]
	0dB	Set the GAIN to 0 db. (No intensification should be carried out.)
SHUTTER	STEP	Shutter speed can be set within the following range: U model: [1/100, 1/250, 1/500, 1/1000, 1/2000] E model: [1/120, 1/250, 1/500, 1/1000, 1/2000]
	OFF	Shutter speed will be 1/60 (1/50). ( ): for E model
ZOOM	WIDE	Zoom is set to WIDE. The zoom will move from the current position to WIDE in the following rate. Press the < button to shift in small step increments and << button to shift in big step increments. [1 to 14]
	TELEPHOTE	Zoom is set to TELEPHOTE. The zoom will move from the current position to TELE in the following rate. Press the > button to shift small step increments and >> button to shift in big step increments. [1 to 14]

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Controlling a Camera from a PC

Clicking ENCODE PARAMETERS on the left of the Streamcorder screen displays the ENCODE PARAMETERS screen for performing video/audio compression settings.
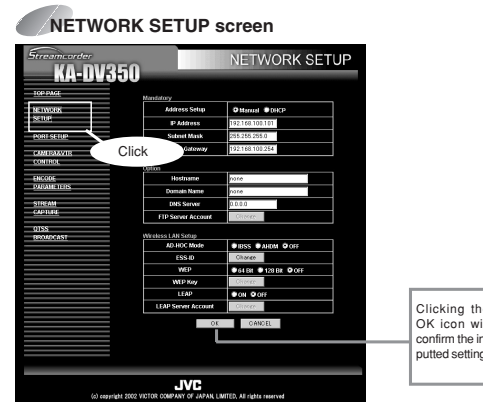

Setting
Select the setting from the pull-down menu.

Click

Click the OK icon to confirm setting.
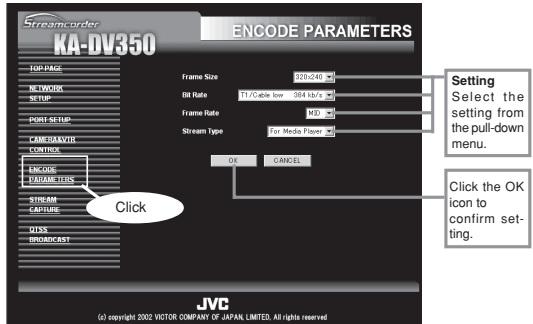
Setting range
●indicates default factory setting.

Item	Setting	Description
Frame Size	320 × 240●	Sets the video compression size.
	160 × 120	320 × 240: Sets the image size to 320 × 240 pixels.
		160 × 120: Sets the image size to 160 × 120 pixels.
		* The input image for a 160x120 pixel image is 160x120 pixels. However, they will be 160x128 pixels when compressed.
Bit Rate	56K (bps)	Sets streaming speed (bps).
	128K (bps)	56K : MPEG4 24 kbps (G726 16 kbps for WMP)
	256K (bps)	128K : MPEG4 104 kbps (G726 16 kbps for WMP)
	384K● (bps)	256K : MPEG4 224 kbps (G726 32 kbps for WMP) (μlaw 64kbps for QT)
	512K (bps)	384K : MPEG4 352 kbps (G726 32 kbps for WMP) (μlaw 64kbps for QT)
		512K : MPEG4 472 kbps (G726 40 kbps for WMP) (μlaw 64kbps for QT)
Frame Rate	MAX	Sets the frame rate per second. Settings are as shown below.
	MID●	
	MIN	

BIT RATE (bps)		FRAME SIZE						BIT RATE (bps)		FRAME SIZE					
		320×240			160×120					320×240			160×120		
		MAX	MID	MIN	MAX	MID	MIN			MAX	MID	MIN	MAX	MID	MIN
512K	NTSC	15	10	7.5	30	15	7.5	128K	NTSC	7.5	5	3	15	10	7.5
	PAL	12.5	5	5	25	12.5	5		PAL	5	5	1	12.5	12.5	5
384K	NTSC	15	10	7.5	30	15	7.5	56K	NTSC	3	1	1	10	7.5	5
	PAL	12.5	5	5	25	12.5	5		PAL	1	1	1	12.5	5	5
256K	NTSC	15	7.5	5	30	15	7.5								
	PAL	12.5	5	5	25	12.5	5								

Item	Setting	Description
Stream Type	For Media● Player	Sets the player for stream playback.
		• Set to WMP mode when recording to CF card.
	For Quick Time	**Memo**
		• No sound will be heard when playing back using QuickTime while in the WMP mode.
		• No sound will be heard when playing back using Media Player while in the QT mode.
		• Do not set the Bit Rate Item to "56K" or "128K" while the Stream Type Item is set to the "For QuickTime".

Controlling a Camera from a PC

Clicking NETWORK SETUP on the left of the Streamcorder screen displays the NETWORK SETUP screen for performing network related settings.

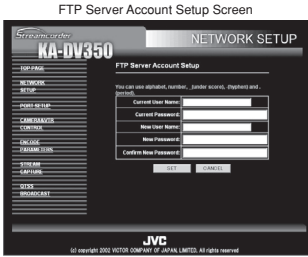### ● NETWORK SETUP screen

Click

Clicking the OK icon will confirm the inputted setting.

Memo
Contact your network administrator for any unclear points concerning network settings.

● indicates default factory setting.

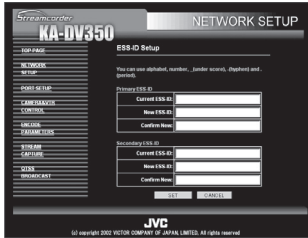| Item	Setting	Description
Address Setup	MANUAL●	The address setting mode can be selected.
	DHCP	MANUAL : Select for MANUAL mode.
		DHCP : Select for DHCP mode.
IP Address	192.168.100.101	The IP address can be set.
Subnet Mask	255.255.255.000	The subnet mask can be set.
Default Gateway	192.168.100.254	The gateway address can be set.
Host Name	none	The host name can be set. (Min: 4 alphanumerical characters) (Max: 64 alphanumerical characters)
Domain Name	none	The domain name ca be entered. (Min: 1 alphanumerical characters) (Max: 64 alphanumerical characters)
DNS Server	0.0.0.0	The address of the domain name system server can be set.
FTP Server Account		When selecting Change, settings can be made in the FTP Server Account Setup screen. (☞ page 66)
AD-HOC MODE	IBSS	The AD-HOC mode can be set.
	AHDM	
	OFF●	
ESS-ID		When selecting Change, settings can be made in the ESS-ID Setup screen. (Max: 32 alphanumerical characters) (☞ page 66)
WEP	64 Bit	WEP is set.
	128 Bit	
	OFF●	
WEP Key		When selecting Change, settings can be made in the WEP Key Setup screen. (☞ page 66)
LEAP		When set to ON, LEAP Server Account can be set.
LEAP Server Account	ON	When Change is selected, settings can be made in the LEAP Server Account Setup Scrren. (☞ page 66)
	OFF	

Memo
If the IP address is changed in the Streamcorder screen, the unit will automatically jump to the new IP address. However, the screen may not be displayed correctly depending on the environment. In this case, access by specifying the new IP address using a browser.
(☞ page 44)

Memo
FTP Server Account will be selected when SETUP ON WEB of camera SERVER SETUP MENU set to "on".

Memo
WEP KEY's change button will be selected when select the WEP 64bit or WEP 128bit.

Memo
LEAP Server Account will be selected when SETUP ON WEB of camera SERVER SETUP MENU set to "on".

→OVER

FTP Server Account Setup Screen

Item	Factory setting	Description
User Name	ftp-user	Input the FTP user name.
Old Password	ka-dv	Input the currently used password.
New Password		Input the new password.
Confirm New		For condfirmation, input the new password again.

ESS-ID Setup Screen

Primary ESS-ID

Item	Factory setting	Description
Current ESS-ID	NONE	Input the the currently used ESS-ID.
New ESS-ID		Input the new ESS-ID.
Confirm New		For confirmation, input the new ESS-ID again.

Secondary ESS-ID

Item	Factory setting	Description
Current ESS-ID	NONE	Input the the currently used ESS-ID.
New ESS-ID		Input the new ESS-ID.
Confirm New		For confirmation, input the new ESS-ID again.

WEP Key Setup Screen

Item	Factory setting	Description
Current Wep Key		Input the the currently used Wep Key.
New Wep Key		Input the new Wep Key.
Confirm New		For confirmation, input the new Wep Key again.

LEAP Server Account Setup Screen

Item	Factory setting	Description
User Name	leap-user	Input the LEAP user name.
Old Password	ka-dv-jvc	Input the currently used password.
New Password		Input the new password.
Confirm New		For condfirmation, input the new password again.

Clicking PORT SETUP on the left of the Streamcorder screen displays the PORT SETUP screen for performing port settings.

PORT SETUP screen

Input

Click

Clicking the OK icon will confirm the inputted setting.
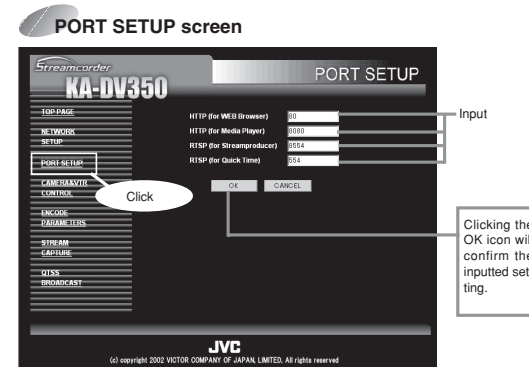
Item	Factory setting	Description
HTTP (for WEB Browser)	80	The HTTP port for WEB browser can be set. (1 to 32767)
HTTP (for Media Player)	8080	The HTTP port for Media player can be set. (1 to 32767)
RTSP (for Streamproducer)	8554	The Streamproducer RTSP port number can be set. (1 ~ 32767)
RTSP (for Quick Time)	554	Quick Time RTSP port number can be set. (1 ~ 32767)

* Changing ports require special knowledge. Always consult the administrator of the connecting network when making changes.
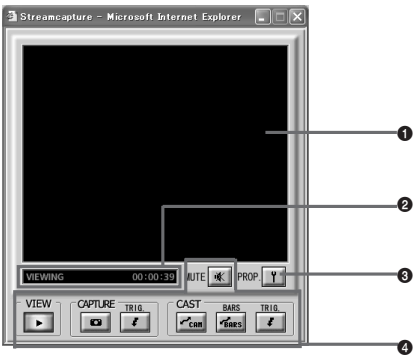* Do not use the same port numbers for RTSP and HTTP.

Memo

If the port is changed in the Streamcorder screen, the unit will automatically jump to the new port. However, the screen may not be displayed correctly depending on the environment. In this case, access by specifying the new port using a web browser.
(☞ page 44)

Function of Simplified Viewer

Click the characters "STREAMCAPTURE" on the left of the Streamcorder screen to display the Streamcapture screen as shown below. Video and audio sent from KA-DV350 via LAN can be played back on your PC in the Streamcapture screen or data can be saved to files. It can be used on a PC that has Streamproducer installed.

Name of buttons and their function

Memo

• Since video on the STREAM CAPTURE screen is converted video data, images will take more time to appear than the actual video taken with GY-DV300.

• Set the stream type to "for WMP". (☞ page 19)

• Click the CAPTURE button after the image is displayed on the screen.

• Depending on the network or operational environment, network connection may be disconnected. Since Streamcapture is for the easy checking of streaming data on the Web, it is not built with a reconnection feature. When reconnection is required, please use Streamproducer.
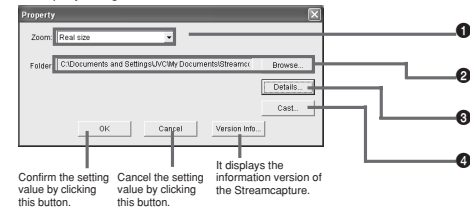
❶ **Video display**
The display size can be changed in the Property dialog box. (☞ page 69)

❷ **Status/Time elapsed display**
The current status is displayed.

VIEWING:
Video or audio from KA-DV350 is being played back in realtime (live display).

CAPTURING:
Video or audio is being saved in your PC.

STOP:
Playback is stopped.

WAITING:
TRIG recording standby.

❸ **Clicking the button will display the Property dialog box.**
Video display size and the save destination folder can be changed. (☞ page 69)

❹ **Operation buttons**
Clicking will start operation. When on, the button will light.

VIEW :
Click to play back or stop video/audio from KA-DV350 on your PC. (ON when the Streamcapture screen is opened.)

CAPTURE
Click to save video/audio to a PC.
Default destination
My Document¥Streamcorder (¥IPAddress)
Saved file name:
The file name based on the capture start time will be used.
0 4 0 1 0 2 – 1 5 3 0 0 0 .asf
Year Month Day Hour Minute Second

CAPTURE-TRIG. :
Click when saving the video/audio from KA-DV350 to your PC when starting recording with GY-DV300. (☞ page 73)

CAST-CAM :
Click when sending the video/audio from KA-DV350 to another PC. (☞ page 70)

CAST-BARS :
Click when transmitting color bars rather than video from KA-DV350. (Video from KA-DV350 will be displayed in the video display of the Streamcapture screen. Color bars will not be displayed.)

CAST-TRIG. :
Click when sending the video/audio from KA-DV350 to another PC when starting recording with GY-DV300. (☞ page 73)

MUTE :
Click to turn on/off the mute setting.
When on, the playback sound will be muted.

Function of Simplified Viewer

Click on the [PROP] button in the Streamcapturer window to display the setup display ([Properties] dialog box).

Setup for a simplefied viewer (Streamcapture)

■ Property dialog box

Confirm the setting value by clicking this button.
Cancel the setting value by clicking this button.
It displays the information version of the Streamcapture.

❶ **Select the video display size**
Select the display size from the pull-down menu.
Setting range:
• Real size
• Fit to window

❷ **Save destination folder**
The default save destination is as follows:
Set this field when changing the save destination folder.
My Document¥Streamcorder (¥IPAddress)
When changing the destination folder, press the Browse... button and select the desired folder. The changed destination folder will be the default folder for future save operations.

❸ **Advanced settings dialog box**
Port numbers of the network used on the PC side during communication with the network pack are set.
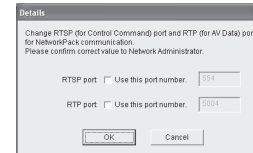
RTSP port:
used for handling commands. [TCP]

RTP port:
used for receiving video data. [UDP]

OK button:
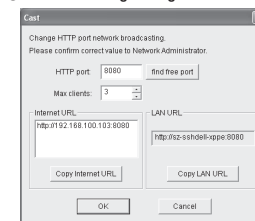To confirm the settings and close the dialog box.

Cancel button:
To cancel the settings and close the dialog box.

Normally, available ports are automatically searched and set.
If there are restrictions to the port numbers due to the LAN environment settings of your PC, consult your network administrator.
When specifying the port numbers for use, check each checkbox and input the number in the edit box on the right.

❹ **Advanced settings dialog box**

HTTP port
Port number of the network used when sending video/audio is set. Normally, no user setting is required.

Max clients
Sent video/audio can be received up to the number specified in this dialog box.

Internet/LAN URL
When receiving video/audio, the URL displayed here in entered in Windows Media Player.

Copy Internet URL
Copies Internet URL to clipboard.
Select each URL and right click on that URL, then appear the copy message.

Copy LAN URL
Copies LAN URL to clipboard.
Select each URL and right click on that URL, then appear the copy message.

OK button
To confirm the settings and close the dialog box.

Cancel button
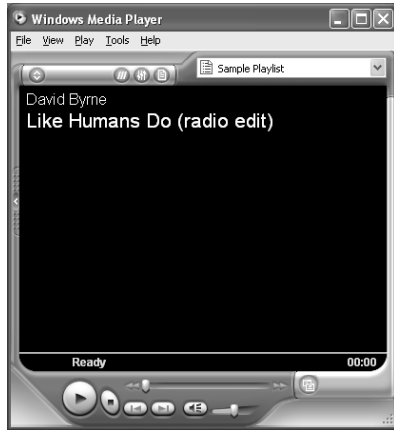To cancel the settings and close the dialog box.

Receiving Camera Images via LAN
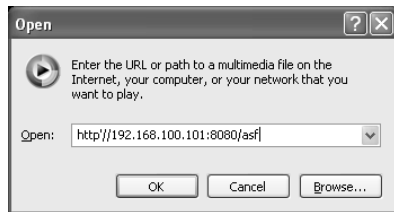
The images distributed using this function can be received using the Windows Media Player.

1. Set STREAM TYPE in the ENCODE SETUP menu to "for WMP".

2. Open Windows Media Player.

3. Select [File] [Open URL].
The following dialog box will appear.

4. Set the IP address of the camera.
http://***.***.***.***:####/asf
* → IP address of camera
# → HTTP Port number set in "for Media player"

5. When completed with setting, select OK to establish connection.

Memo

• WMP for Mac OS is not supported.
Use QuickTime Player.
(☞ page 72)

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Receiving Camera Images via LAN

The images distributed using this function can be received using the QuickTime Player.

1. Set STREAM TYPE in the ENCODE SETUP menu to "for QT".

2. Open Quick Time Player

3. Select [File] [Open URL with New Player].
The following dialog box will appear.

4. Set the IP address of the camera.
rtsp://***.***.***.***/live.mp4
* → IP address of camera

5. When completed with setting, select OK to establish connection.
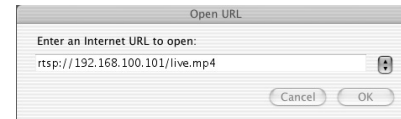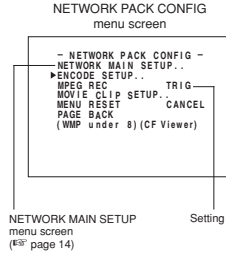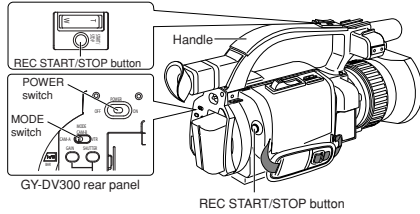
Memo

• When quickly alternating Play and Still operations on QuickTime, a 455 error dialog may appear. In this case, turn off the GY-DV300 and turn the power back on.

• When repeating Open and Close operations on the QuickTime Player, there may be a lag between the audio and video. In this case, restart QuickTime.

• If there is a lag between the video and audio, set the sampling frequency of input signals and the audio mode of GY-DV300 to match, close QuickTime and launch again.

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OPERATION
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Receiving Camera Images via LAN

Using a simplified viewer (Streamcapture)

The Trigger Mode function can be used to save and transmit video/audio from KA-DV350 to your PC by synchronizing to the button operations of GY-DV300.

Synchronizing with the button operations of GY-DV300

REC START/STOP button — Handle

POWER switch

MODE switch

GY-DV300 rear panel — REC START/STOP button

NETWORK PACK CONFIG menu screen

```
− NETWORK PACK CONFIG −
NETWORK MAIN SETUP..
▶ENCODE SETUP..
MPEG REC          TRIG
MOVIE CLIP SETUP..
MENU RESET        CANCEL
PAGE BACK
(WMP under 8)(CF Viewer)
```

NETWORK MAIN SETUP menu screen (☞ page 14)   Setting

CAPTURE-TRIG. button   CAST-TRIG. button

1. Set MPEG REC in the NETWORK PACK CONFIG menu to "TRIG" or "SPLIT" using steps 1 to 8 of page 21.
- TRIG: Records/transmits video/audio streaming data to your PC at the same time as the recording to the DV cassette tape set in GY-DV300.
- SPLIT: Records/transmits video/audio streaming data to your PC regardless of whether the DV cassette is set.

2. Click the CAPTURE-TRIG./CAST-TRIG. button in the Streamcapture screen.
- Button lights and the program enters the trigger standby mode.
- When the CAPTURE-TRIG. button is on:
  Saves the video/audio from KA-DV350 to your PC by synchronizing to the button operations of GY-DV300.
- When the CAST-TRIG. button is on:
  Transmits video/audio from KA-DV350 to another PC by synchronizing to the button operations of GY-DV300.
- When saving and transmitting video/audio at the same time, light both CAPTURE-TRIG. and CAST-TRIG. buttons.

3. Turning trigger on
- When KA-DV350 is in the TRIG mode:
  Press the REC START/STOP button of GY-DV300.
- When KA-DV350 is in the SPLIT mode:
  Press the SELECT dial of GY-DV300.
- Saving of file or transmission will start on the PC.

4. Turning trigger off
- When KA-DV350 is in the TRIG mode:
  Press the REC START/STOP button of GY-DV300.
- When KA-DV350 is in the SPLIT mode:
  Press the SELECT dial of GY-DV300.
- File recording on the PC will end. Furthermore, Transmitted video screen will display color bars.

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Distributing Camera Images via LAN

Distributing the video data captured by the GY-DV300

The Cast function can be used to send video/audio of KA-DV350 from this PC to another PC.

CAST-CAM button   CAST-BARS button   CAST-TRIG. button
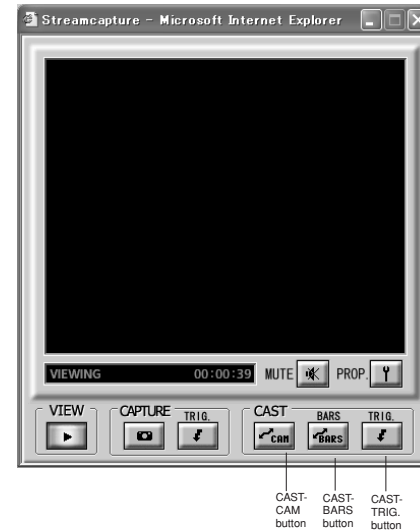
■Sending method
Display the video to send in the video display window of the Streamcapture screen and click the CAST-CAM button.

<Color bar transmission>
When clicking the BARS button, color bars are transmitted rather than the video from KA-DV350.
- Video of the receiving side will be displayed with color bars.
- Click the CAST button to switch back to the transmission of video from KA-DV350.
- To stop the transmission of video from KA-DV350/color bars, turn off the CAST-CAM/CAST-BARS button.
  In this case, the connection with the receiving side will be disconnected.

<Trigger transmission>
When transmitting video/audio from KA-DV350 to another PC by synchronizing to the button operations of GY-DV300, click the CAST-TRIG. button.
(☞ page 73)

Memo

Video from KA-DV350 will be displayed in the video display of the Streamcapture screen. Color bars will not be displayed.

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Changing the Top Page of the Web Control Display (Streamcorder)

The Streamcapture top page can be customized by creating a new top page and uploading it using FTP. Pages and images linked from "index.html" can also be uploaded.

Memo

- Make sure the uploaded files do not exceed 100KB in total.

- The HTML display will fit properly on the screen when creating at a size of about 500 × 360 pixels.

- Once uploaded, the file is overwritten and cannot be reproduced. Download and backup necessary files in the FTP.

1. Set the unit so that NETWORK SETUP can be displayed. (☞ page 44)

2. Create HTML on the PC using a commercially available HTML editor, etc.
   - Save the created HTML file under the name of "index.html".

3. Use a commercially available FTP program on the PC to upload index.html created in step **2** above to KA-DV350.
   FTP program settings (Execute using the set value.)
   IP Adress   : 192.168.100.101
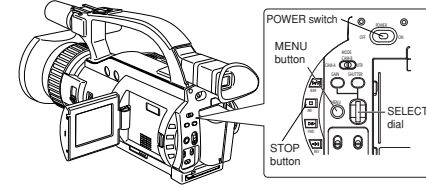   Remort Port : 21
   USER ID   : ftp-user
   PASSWORD : ka-dv

Updating the KA-DV350 Version

The network pack firmware version can be updated.
For details concerning version update data, visit the JVC homepage.

Caution

During update, do not turn the power off or perform menu or camera operations. Malfunction may occur as a result.

POWER switch
MENU button
SELECT dial
STOP button

NETWORK PACK CONFIG menu screen

```
– NETWORK PACK CONFIG –
►NETWORK MAIN SETUP..
 ENCODE SETUP..
 MPEG REC
 MOVIE CLIP SETUP.    TRIG
 MENU RESET     CANCEL
 UPDATE
 PAGE BACK
(WMP under 8) (CF Viewer)
```

UPDATE menu screen

```
– – – UPDATE – – –
►SOFTWARE UPDATE CANCEL
 PAGE BACK

      VXX-XX
 2004. XX. XX XX:XX:XX


INSERT AN UPDATE CF CARD
```

1. Insert a CF card with update data into the slot.

2. Set the POWER switch of GY-DV300 to ON.

3. Press and hold the MENU button for at least 1 second to display the TOP MENU screen.

4. Set the cursor to NETWORK PACK CONFIG and press the SELECT dial while holding the STOP button of the camera.
   - The NETWORK PACL CONFIG menu screen added with the UPDATE item appears.

5. Turn the SELECT dial, set the cursor to UPDATE and press the SELECT dial.
   - The UPDATE menu screen appears.

6. Set the cursor to SOFTWARE UPDATE and press the SELECT dial.
   - CANCEL display will flash and changes will be allowed.

7. Using the SELECT dial, set the display to EXECUTE and press the SELECT dial.
   - Update will begin and "UPDATE.." will flash on the screen during the process.

8. When update is completed, the normal screen appears.
   - The NETWORK PACK CONFIG menu screen appears.

UPDATE menu screen contents

● indicates default settings.

Item	Setting	Description
NETWORK UPDATE	CANCEL● EXECUTE	Set EXECUTE and press the SELECT dial to start update.
PAGE BACK		Press the SELECT dial to return to the NETWORK PAC CONFIG menu screen.

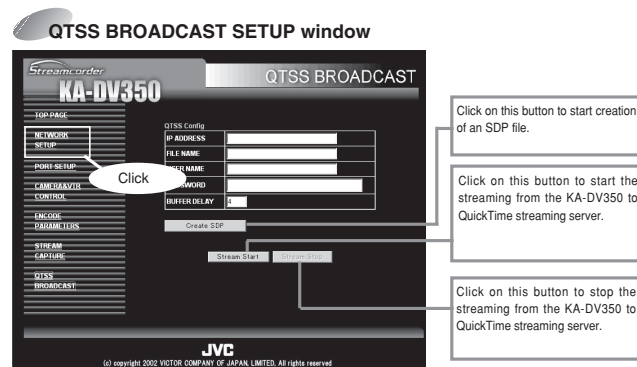# Checking the Network Communication (PING Command)

By using the PING command standard to Windows, it is possible to check whether the connection is correct and that communication can be made from the PC to KA-DV350.

1. Launch the command prompt.
   - For Windows 2000
     From the Start button, select [Programs] →
     [Accessories] → [Command Prompt].

2. Input the following and press the Enter key.
   PING xxx.xxx.xxx.xxx
   (xxx.xxx.xxx.xxx is the IP address of the other party)
   Input example: When the IP address of the other party is
   "192.168.0.10"
   PING 192.168.0.010

3. Check to see that the other party is successfully displayed.
   If connection is not successful, "Request timed out" or "Destination host unreachable" message will appear.

Using the QuickTime Streaming Server

The QuickTime Streaming Server (QTSS) is the streaming distribution server of QuickTime, based on RTP/RTSP and HTTP protocol. Click on [BROADCAST SETUP] on the left part of the Streamcorder window to display the [QTSS BROADCAST SETUP] menu for use in broadcast-related setups.

QTSS BROADCAST SETUP window

Click on this button to start creation of an SDP file.

Click on this button to start the streaming from the KA-DV350 to QuickTime streaming server.

Click on this button to stop the streaming from the KA-DV350 to QuickTime streaming server.

The settings marked ● are the factory setups.

Item	Setting	Description
IP ADDRESS		Sets the IP address of the QuickTime streaming server. ***. ***. ***. *** (ex : 193. 168. 100. 200)
FILE NAME		Sets the name of the SDP file created by the QuickTime streaming server. File name must be alphanumerical with extension of ".sdp". (ex : unicast.sdp)
USER NAME		Set the name of the movie broadcast user of the QuickTime streaming server.
PASSWORD		Set the movie broadcast password of the QuickTime streaming server.
BUFFER DELAY	4●	Sets the buffer delay level.

Memo

- When the connected client PC is not a server equipped with the DHCP function, set [DHCP] to "OFF".
- Set the item [STREAM TYPE] in the [ENCODE SETUP] menu of the GY-DV300 to "for QT".
- Set different IP addresses in the same domain to the GY-DV300, QuickTime stream server and client PC.
- The GY-DV300, QuickTime stream server and client PC should be given the same net mask.
- Use a CAT-5 straight cable for the connection.
- If the client PC is installed in a distant location and should access the QuickTime stream server through the Internet, the network environment of the PC should be capable of accessing the QuickTime stream server. For any questions, please consult your network administrator.
- Set the network connection of the client PC to "No proxy server". If information on this setting is required in case of trouble, refer to the LAN connection proxy server setup.
- When "rtsp://***********/??????.sdp" is opened from QuickTime running on the PC, the playback of the stream begins.
  * → Server name of the QuickTime stream server or its IP address.
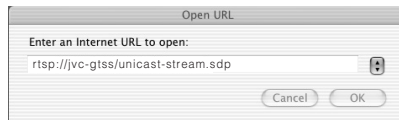 ? → Name of the distributed stream.

→**OVER**

Using the QuickTime Streaming Server

Connecting Quick Time Player

1. Set STREAM TYPE in the ENCODE SETUP menu to "for QT".

2. Open Quick Time Player

Welcome to QuickTime

Get connected to the Internet for your guide to the best in QuickTime content.

QuickTime

00:00:00

3. Select [File] [Open URL with New Player].
The following dialog box will appear.

Open URL

Enter an Internet URL to open:

rtsp://jvc-gtss/unicast-stream.sdp

Cancel   OK

4. Set the IP address of the camera.
rtsp://******/???????.sdp

* → Server name of the QuickTime stream server or its IP address.

? → Name of the distributed stream.

5. When completed with setting, select OK to establish connection.

Memo

• When quickly alternating Play and Still operations on Quick Time, a 455 error dialog may appear. In this case, turn off the GY-DV300 and turn the power back on.

• When repeating Open and Close operations on the QuickTime Player, there may be a lag between the audio and video. In this case, restart QuickTime.

• If there is a lag between the video and audio, set the sampling frequency of input signals and the audio mode of GY-DV300 to match, close QuickTime and launch again.

Memo

Setting example>
When the server name is "jvc-qtss" and the SDP file name is "unicast-stream", enter "rtsp://jvc-qtss/unicast-stream.sdp".

Glossary

● **LAN (Local Area Network)**
A network structured within a relatively small range such as in a single building or an office of a company.

● **DHCP (Dynamic Host Control Protocol)**
Method of automatically assigning IP address within a network. When a computer is connected to a network, the DHCP server automatically assigns the IP address.

● **WAN (Wide Area Network)**
A network structured within a wide area such as between the main office of a company and its branch offices. Internet is also generally referred to as WAN.

● **Sub-Netmask**
An IP address has the following two roles: 1) address for identifying the network, and 2) address for identifying individual computers. Sub-Netmask is a 32-bit value that defines the number of bits of the IP address to use for identifying the network.

● **Gateway**
Hardware and software that translates different types of protocols when a computer communicates with another computer outside the network. The gateway IP address is referred to as the gateway address.

● **RTP (Realtime Transport Protocol)**
Protocol to transmit in realtime digitalized video/audio data via a network.

● **RTSP (Real Time Streaming Protocol)**
Protocol to control realtime transmission of video/audio data via a network.

● **HTTP (Hypertext Transport Protocol)**
Protocol used when transferring HTML (Hypertext Markup Language) files between WWW server and web browser.

● **Protocol**
A set rule for a computer or communication device to perform communication over a network, etc.

● **IEEE802,11b**
International standard for wireless LAN with maximum communication speed of 11Mbps.

● **Channel (wireless LAN)**
Frequency range used by wireless LAN. The same frequency must be set by two sides for proper communication.
If there is an access point, adapter, etc., using the same band in the proximity, there may be a hindrance in the communication and may reduce throughput or the quality of communication. When setting, check the settings of surrounding access points, etc., to avoid doubling.

● **ESS-ID (wireless LAN)**
Network identification name used by wireless LAN. The name is used to distinguish other wireless LAN devices.

● **Ad hoc mode (wireless LAN)**
A mode for direct communication without passing through an access point.

● **Infrastrucre (wireless LAN)**
Form of communication via an access point.

● **Encryption mode**
Setting for encrypting the flow of data during wireless communication.
Following settings are available:

None (Open System):
No encryption. Setting will be unavailable and throughput will be improved. However, there is the risk of information leakage.

40bit WEP:
Encryption is performed using 40-bit encryption key.

128bit WEP:
Encryption is performed using 104-bit + 24-bit (1V) keys. Although throughput will decline compared to Open System, security of data will be improved.

● **Access point (wireless LAN)**
Relay point for infrastructure communication. It can also serve as the relay point for cable LAN or wireless LAN.

● **ASF (Advanced Streaming Format)**
Data streaming format developed by Microsoft Corporation (U.S.) for transmission of video and audio.

● **Host name**
Name of a device (not limited to a computer but all connection devices with an IP address) on a network.

Glossary

● **IP address**

Identification number assigned to each computer that is connected to a network. The address is used for communication between network devices.

● **Global IP address:**

Just as different IP addresses are needed on a network, all PCs using the Internet worldwide must use a unique IP address. This IP address is referred to as "global IP address".
Normally, the global address is assigned by the IS provider.

● **Local IP address:**

In an environment not connected to the Internet (within a household, within a company, etc.), separate IP addresses can be used freely within a network.
This IP address is referred to as "local IP address".

● **IP addresses are categorized into 3 classes depending on the number of PCs structuring a network.**

"Class A IP addresses" are used for large-scale networks, "Class B IP addresses" are used for medium-scale networks and "Class C IP addresses" are used for small-scale networks.
Within a network, all IP addresses must be of the same class. Each IP address is structured by a series of 4 digit numbers separated by a period. The first number of the IP address indicates the class.

Class indicated here

IP address   xxx.xxx.xxx.xxx
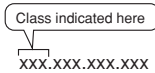
First number of the IP address	Class	Application (number of PCs structuring the network)
1 to 127	Class A	For large-scale networks (max. approx. 16 million units)
128 to 191	Class B	For medium-scale networks (max. approx. 65,000 units)
192 to 223	Class C	For small-scale networks (max. approx. 120 units)

* "224 ~ 255" are normally not used for IP addresses.

For example, a network structured by a few PCs to dozens of PCs would use Class C IP addresses. Normally, the following special IP addresses are used when structuring a network.

Class	Set IP address
ClassA	10.0.0.0 - 10.255.255.255
ClassB	172.16.0.0 - 72.31.255.255
ClassC	192.168.0.0 - 192.168.255.255

● **Port number**

Number used for detecting applications and service during TCP/IP communication.

● **TCP/IP**

Abbreviation for Transmission Control Protocol/Internet Protocol and is one of the protocols used during network connection.

● **UDP**

Different from TCP, UDP is a low-level protocol that does not perform receive checks. In some cases, missing and distorted images may occur due to packet loss.

● **About proxy server**

A proxy is a "relay point" for accessing the Internet. When enabling "Use a proxy server", the proxy server will make access to the Internet.
Since various access information is cached at this time, downloading will be faster when reloading the same information from the Internet since the data is loaded from the proxy server.

Streamproducer

User's Guide

JVC

Streamproducer

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Welcome to Streamproducer

Welcome to Streamproducer, the software that lets you record and playback MPEG-4 files from up to four GY-DV300+KA-DV300(DV350), GY-DV5000+KA-DV5000 or BR-DV6000+SA-DV6000 streamcorders + network packs on a PC. Streamproducer provides hot switching of four streamcorders or MPEG-4 files and its output may be viewed in real-time by a maximum of ten clients via a LAN. Streamproducer enables you to employ these operations on PC easily.

For details on the streamcorders and network packs, please read the respective manuals.

[Important]
The packaged software "Streamproducer" consists of the following applications:

(1) "Streamproducer"
(2) "Streamcapture"
(3) "CFViewer"
(4) "EDLMaker"
(5) "MoviePlayer"
(6) "Stream Format File Generator"

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(4)The Agreement shall be governed by and interpreted under the laws of Japan. The Tokyo District Court has jurisdiction over all disputes which may arise with respect to the execution, interpretation and performance of this Agreement.

In this User's Guide, a unit of streamcorder attached to a network pack is herein after referred to as "streamcorder"

Table of Contents

< Trademark >

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*Other names of products are trademarks of each respective manufacturing company.

1. Introduction

Streamproducer is JVC's complete streaming software that allows you to stream in a local network or to the Internet from any one of up to four sources. These sources can be any combination of MPEG-4 movie files or JVC's Streamcorders, In addition, Streamproducer will also support future products from JVC, such as streamcorders, VTRs, etc.

Streamproducer allows you to monitor live video from up to four sources, as well as the video that is being cast to the Internet. When casting, you can switch between the four sources by simply pointing and clicking with your mouse.

Streamproducer also allows you to capture the MPEG-4 stream, (record to disk) from any or all of the video sources independently, as well as saving the cast video stream.

1.1 What is 'Casting' or 'Streaming'?

First of all, casting and streaming are synonymous; they both mean the same thing and these terms will be used interchangeably throughout this manual. So, what is streaming? Video streaming implies the continuous delivery of video & audio in a single direction, from sender to receiver. Streamproducer is a publishing point; it receives MPEG-4 streams generated by any one of up to four sources, such as the GY-DV300 streamcorder or other streamcorders and casts (sends) Microsoft compatible ASF MPEG-4 streams to up to ten media players (receivers) anywhere in the world, through a LAN or the Internet.

Also by nature, streaming implies a high degree of compression so that many users can share the bandwidth. With Streaming, the quality is proportional to the bit rate…and the bit-rate is what makes streaming so desirable. Streaming is content delivery to the masses!

1.2 Streamproducer Version comparison chart

ITEM	Ver. 2	Ver. 1
Player Component	DirectShow	WMP 6.4
Delay time	2 sec.	17 sec.
Number of windows	variable from 1 to 4	fixed 4
Casting stop function	available	not possible
Switch casting in the middle of the file	available	not possible
Time lag when switch casting source	a few seconds	tens of seconds
Client type	WMP 7.1, 8	WMP 6.4, 7.1, 8
Number of clients	10	10
Playable file	exclusive Streamcorder's file	any .asf, .wmv

2. System Requirements

Streamproducer requires the following minimum system requirements for proper operation.

Minimum requirements

Hardware

CPU	Pentium III (or equivalent) 700MHz or faster
Memory	128MB minimum
Display	XGA (1024 x 768) or better
Hard disk	50MB for install.
Network	- One LAN system for connect to Network Pack. - Other network connection for casting on internet.
Sound card	SoundBlaster supporting Direct X or SoundBlaster compatible is working normally.
CD-ROM drive	Necessary for install

Software

OS	Windows XP Home or Professional Edition Windows 2000 Professional
Other	DirectX 8.1 (DirectX 8.1 is installed with Streamproducer automatically)

The above minimum requirements will provide satisfactory operation when used under the following conditions:

1. Connecting to only one live stream or playback of only one file.
2. Not saving the image from the streamcorder to a disk drive.
3. Casting from a single source without switching.

Recommended requirements

To benefit from the full set of features available with Streamproducer, including using multiple streamcorders/files, saving incoming streams to a disk drive, and source switching while casting, you need a PC with the minimum requirements mentioned above and the following CPU, Memory and Display spec:

Hardware

CPU	Pentium 4 (or equivalent) 2.2GHz or faster
Memory	512MB minimum
Display	SXGA (1280 x 1024) or better

NOTE: These minimum and recommended requirements are the standards for using Streamproducer. However, these requirements do not guarantee smooth performance which may depend on other parameters and computer settings, such as background processes, screen settings, network devices and settings etc.

CAUTION

Video display window of Streamproducer can have noise in some cases. You can fix it by following operations.
- Update VGA card driver
  You may be able to download updated driver from VGA card maker's site.
- Disable DirectDraw hardware accelerator
  You can disable it by [Start] > [Settings] > [Control Panel] > [Display] > [Settings] > [Advanced] > [Troubleshooting].

Streamproducer stops its performance or cuts the connection with the equipments momentarily when the communications with video data or Streamcorders are interrupted because of the poor network condition.

An example with the minimum system requirements

An example with the recommended system requirements
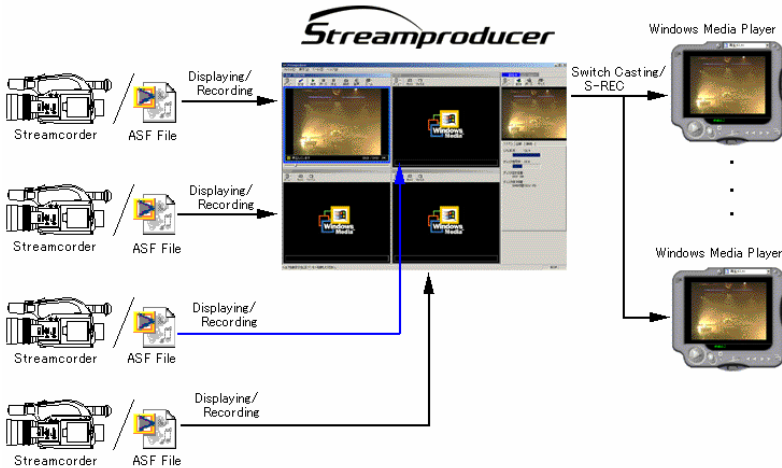
3. Install/Uninstall Streamproducer

3.1 Installing Streamproducer

Insert the Streamproducer CD-ROM in CD-ROM drive. If your computer is configured to autorun from CD-ROM, the first setup screen, select a language, appears. If this screen does not automatically appear, manually start the installation: from the Windows "Start" menu, select "Run" and run 'Startup.exe' from the CD drive.

The first screen will ask what language you wish to install, English or Japanese. If English is selected the following screen appears:

From the install screen shown above, click [Install Streamproducer] to start the setup program (setup.exe). All required files and programs are self installing. Just follow the prompts as required to install Streamproducer.

All previous versions of Streamproducer must be uninstalled prior to installation of a new Streamproducer. The uninstall process is automatic, and **if you have an earlier version of Streamproducer installed, you will be prompted to remove it now.** Once the previous version is removed, you can re-install Streamproducer.

Note: In installation of a program Administrator authority is required.

3.2 Setting a proxy server

You may need to specify a proxy server to receive the video stream from a streamcorder.

1. With the mouse pointing to Internet Explorer icon, on your desktop, click the right button and choose [Properties] from the menu.

2. From the 'Internet Connections' dialog box, click [Connections] tag to open the setting dialog for LAN.

3. Click the [LAN Settings...] button to open [Local Area Network (LAN) Settings] dialog box and click [Advanced]. The [Proxy Settings] dialog box, shown here, appears.
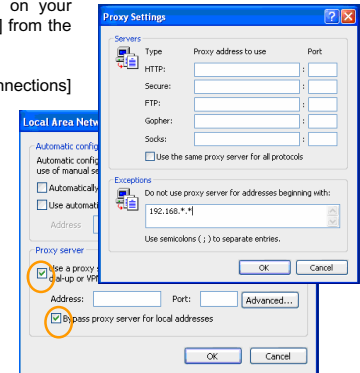
4. If you are connecting the PC *directly* to a streamcorder, remove the check mark on the [Use a proxy server for your LAN] box if it is checked.

5. If you are connecting to a streamcorder *using a LAN* that requires a proxy server, check on the [Use a proxy server for your LAN] box and type the address of the proxy server. Check on the [Bypass proxy server for local addresses] box and click [Advanced...] button to open the [Proxy Settings] dialog box.

6. Type the IP address of the streamcorder in the blank area of the [Do not use proxy server for addresses beginning with:]. window. You do not need to enter the entire address, just the first two numbers, followed by '.*.*' as shown here Click the [OK] button after you have completed the proxy settings.

3.3 Uninstall Streamproducer

Note: In uninstallation of a program Administrator authority is required.

You can uninstall Streamproducer using one of the following two ways.

3.3.1 Using Streamproducer CD-ROM

- Insert the Streamproducer CD-ROM in CD-ROM drive. If your computer is configured to autorun from CD-ROM, the first setup screens appear. If these screens do not automatically appear, from the Windows "Start" menu, select "Run" and run 'Startup.exe' from the CD drive.

- Choose [English] as the language and click on [Install the Streamproducer].

- Since the installation program will find an instance of Streamproducer already installed, you will be prompted if you would like to remove it. Click 'OK' to remove Streamproducer.
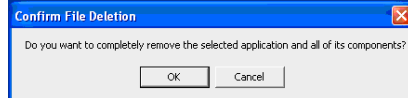

3.3.2 Using "Add/Remove Programs"

- From the Widows desktop, open 'My Computer'. Open 'Control Panel' and choose [Add/Remove Programs].

- Click [Streamproducer] on the list of Currently installed Programs and click [Remove] button. A message for confirmation of removing Streamproducer appears.

- Click [OK] to remove Streamproducer.
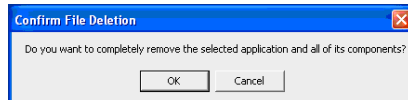
4. Running Streamproducer

From the Windows [Start] menu, choose [Programs], [JVC], [Streamproducer], Streamproducer. The main window, shown here, appears.
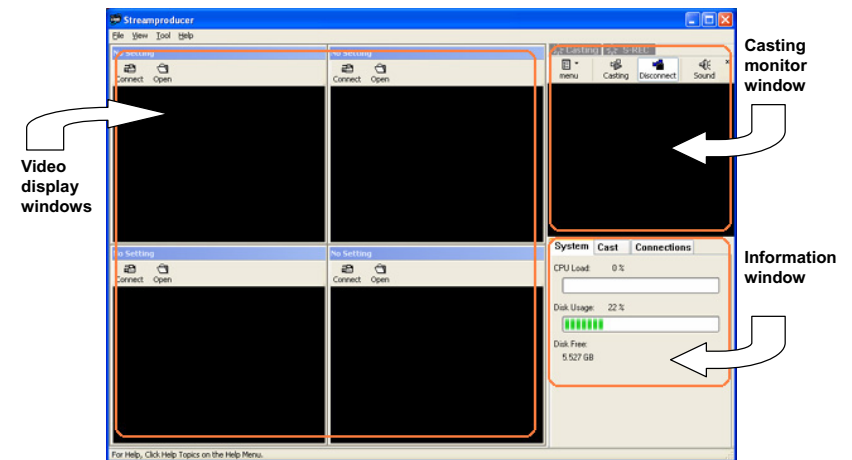
The Streamproducer desktop has three areas; one for each function:

[Video display windows] These four windows can display saved contents from files or images from streamcorders. Four windows can be shown maximally. See Section 6.2 "Option Dialog" for information about setting of the number of the Video display windows. Until a file is selected or a streamcorder is connected, the video display window will be blank.

[Casting monitor window] This window shows a preview of the video casting image.

[Information window] This window, with three specific function tabs, shows information about the system condition and casting. See Section 6.1 "Information window" for information about the information presented in these windows.

4.1 Closing Streamproducer

Choose [Exit] from [File] menu of Streamproducer to close, or click on the X icon on the upper right hand corner. If you have not already disconnected from any connected streamcorders, you will be prompted to disconnect now and close Streamproducer.

4.2 Display images from streamcorders

Streamproducer can record and cast (stream) live images from streamcorders. First you must connect Streamproducer (your PC) with from one to four streamcorders. Up to four streamcorders can be connected at a time; each streamcorder's image is shown on its own video display window in the Streamproducer desktop.

4.2.1 Connecting to streamcorders

- Click [Connect] button on any one of the video display windows that show "No Setting" in the title bar. 'No Setting indicates that no streamcorder is connected or no file is opened in that window.
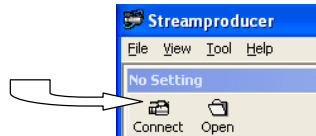
- The Streamcorder setting dialog box appears.
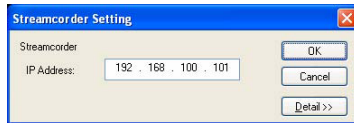
- Enter the streamcorder's IP address and click [OK]. (Note: The menu button only appears in windows that already are connected to a streamcorder or are displaying a file)

- In most cases, the default port number will be satisfactory. If you cannot connect to the streamcorder with the default settings you may need to change one or more port settings.

You will not need to change the port numbers if you connect the streamcorder directly to Streamproducer and both are in their factory default condition.

It may be necessary to specify the port number if there are network devices like routers between the streamcorder and Streamproducer. Ask your network administrator for more detail. In addition, some firewalls may require port setting changes.

If you need to change the port numbers, click on the [Detail>>] button of the streamcorder setting dialog and from the window shown here, specify the port number for the streamcorder and for Streamproducer.

For the details on the setting, please read the Network Pack Setup chapter of your Network Pack User's Guide.

Set the port numbers using the following definitions and guidelines:
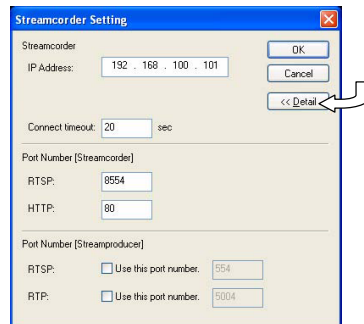
Port Number [Streamcorder] - Enter the port numbers specified on the streamcorder. The streamcorder port numbers must match the Streamproducer port number settings.

RTSP: Enter the port number for RTSP connection (TCP). This number is specified on streamcorder. You will not be able to connect to the streamcorder if you enter the different port number from that specified on the streamcorder.

HTTP: Enter the port number for HTTP connection.

Port Number [Streamproducer] –

RTSP: Enter the port number for RTSP connection (TCP). This is the port number for which Streamproducer sends the RTSP commands to the streamcorder.

RTP: Enter the port number for RTP connection (UDP). This is the port number that Streamproducer uses to receive streaming video data from the streamcorder.

Connect timeout: – Specify the time limit of TCP connection to complete when Streamproducer connects a to a streamcorder. Streamproducer will quit trying to connect with the streamcorder if the connection can not be completed within the specified time. Change the timeout longer if Streamproducer takes longer time to complete the connection with a streamcorder.

- Click [OK] button when you finished setting.

- The 'Name Setting' dialog appears. The host name of the streamcorder is shown as the Name.

A folder with this name is created on your computers' hard drive where the image clips are recorded and stored.

- Enter the streamcorder name and click [OK] button. If you have set a streamcorder name from the streamcorder's menu, this name will appear here. Streamproducer is now connected to the streamcorder. And the window should now look like this:

Streamcorder name and image size

Operation buttons
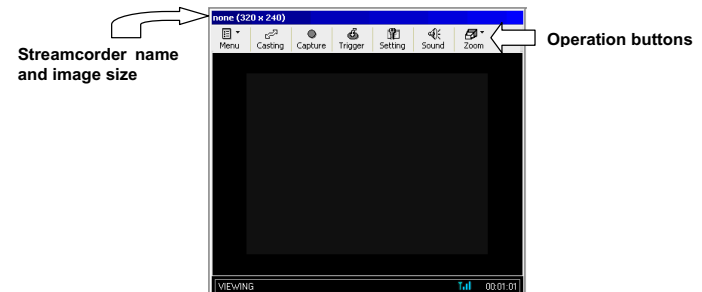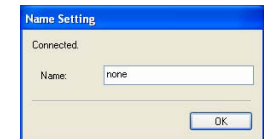
The streamcorder name (and image size) is shown above of the video display window.
Operation buttons appear above of the video display window.
You can see more information about the streamcorder currently connected by clicking on the [Menu] button and choosing [Property...].
It is possible to change to another streamcorder by clicking on the [Menu] button and choosing [Other Streamcorder...].
If the window size is too small to display all operation buttons, you can show the hidden buttons by clicking on the double arrows (>>) on the right side of the button bar.

Each video display window has its own buttons and operation menu. It is possible to operate up to four video display windows separately by clicking on any of its control buttons.

[Casting]

Click the [Casting] button to start casting (streaming video). See Section 4.4 for more information about casting. You can also start casting by choosing [Start/Switch Casting] from the [Menu] pull-down. When casting from a window, the border of that window will turn blue and the [Casting] button is highlighted.

[Capture]

Click the [Capture] button to start recording the image from the streamcorder to a disk drive. The [Capture] button will turn red when recording. You can also start recording by choosing [Start Capturing] from the [Menu] pull-down. When capturing the video to a file, the [Capture] button is highlighted. Click [Capture] again to stop recording.
Recorded images are saved in the location specified on Option dialog of Streamproducer. Please see Section6.2, "Option dialog" for specifying a location for saving files.
The capture function is independent of casting. You can be casting from one source at the same time you are capturing from another (or the same) source.
This capture function is used for capturing video streams from connected streamcorders, mot the stream that is being cast. See Section 4.5 for information about capturing the cast video.

[Streamcorder Setting]

Click the [Setting] button to open the pages for setting and controlling many streamcorder functions using an Internet browser. For details on this function, please read the User's Guide of your Streamcorder and Network Pack. You can also open the page by choosing [Streamcorder Setting] from the [Menu] pull-down.
Close all connections with the streamcorders before changing their settings.

[Trigger]

Click the [Trigger] button to start recording images from the streamcorder automatically when the streamcorder starts recording. (Streamproducer detects the recording trigger from the streamcorder and starts recording to disk at the same time).
Streamproducer will stop recording to disk automatically when the streamcorder stops recording. The [Trigger] button appears to be pushed (highlighted) when you click it, indicating that the trigger mode is in effect. You can also activate the trigger mode by choosing [Capture Trigger] from the [Menu] pull-down.
When the trigger mode is enabled, the [Capture] button is disabled.
Click the [Trigger] button again to stop the trigger mode. The [Trigger] button reverts to its normal appearance, indicating that the trigger mode disabled. You can also disable the trigger mode by choosing [Capture Trigger] from the [Menu] pull-down. If there is a check mark next to 'Capture Trigger' it indicates that the trigger mode is effective, and stopped if there is no check mark.
Please read Section4.2.3, "Trigger mode" for more details about the various trigger modes

[Sound]

Click the [Sound] button to enable sound output and hear the audio from the connected streamcorder. You can also enable sound output by choosing [Output Sound] from [Menu] pull-down.
The [Sound] button appears to be pushed when you click it to indicate 'output sound' is enabled. Click the [Sound] button again to mute the sound. The [Sound] button switches to the default position which is sound off. You can also mute the sound by choosing [Output Sound] from the [Menu] pull-down. If there is a check mark next to 'Output Sound' it indicates that sound is enabled, and muted if there is no check mark.
You can hear the sound from multiple windows simultaneously.

NOTE: The sound button in the individual windows only controls the sound of that window, and has no effect on the audio being cast.

[Zoom]

Choose [Fit to Window Size], [50%], [100%] or [200%] from [Zoom] button to change the magnification of the displaying image. You can also change the magnification by choosing [Zoom] from the [Menu] pull down of each video display window. Each window can have a different zoom factor.
When first opening a file or connecting to a streamcorder, the default size is 100%.

[Property…]

Choose [Property...], from the [Menu] pull-down (no associated operation button) to confirm the streamcorder setting. You can change the streamcorder name from this window; all other fields are read-only.

[Other Streamcorder…]

Choose [Other Streamcorder], from the [Menu] pull-down (no associated operation button) to disconnect from the currently connected streamcorder and connect with another streamcorder.

[Close]

Choose [Close], from the [Menu] pull-down (no associated operation button) to cut the network connection with the currently connected streamcorder. The connection is closed only for the streamcorder associated with the current window. The network connection is cut and the video display window reverts to "No Setting".
To cut the network connection with the streamcorder correctly, execute [Close] before making the streamcorder's power OFF.
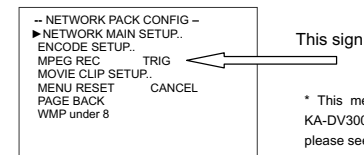
4.2.3 Trigger mode

Streamproducer's exclusive trigger mode allows buttons on the streamcorder to control the capturing function of Streamproducer. Trigger mode is the unique function of the Streamcorder products. Three trigger modes are available; these are set from the streamcorder menu.

Before setting the trigger mode, stop recording, playing back, casting and other operations in the video display window.
Click the [Trigger] button to activate the selected trigger mode and the button is highlighted. To cancel the trigger mode, click the [Trigger] button again.

4.2.3.1 Setting the Trigger Mode from the streamcorder

You need select "MPEG REC" from the "NETWORK PACK CONFIG" menu on the streamcorder. Please refer to your Streamcorder and Network Pack's Users Guide for instructions for navigating through the menu.

```
-- NETWORK PACK CONFIG –
►NETWORK MAIN SETUP..                    This sign
  ENCODE SETUP..
  MPEG REC          TRIG
  MOVIE CLIP SETUP..
  MENU RESET        CANCEL
  PAGE BACK
  WMP under 8
```

* This menu is shown by a GY-DV300 + KA-DV300. For details of other models, please see their Users Guide.

The following trigger modes are supported:

TRIG – In this mode, you can record to the DV tape in the streamcorder and the PC (running Streamproducer) simultaneously, and both recordings are controlled by the streamcorder's REC buttons. In this mode, it is necessary to have a recordable tape in the streamcorder.

The "NO TAPE" warning appears on the streamcorder's viewfinder/LCD screen if no tape loaded.

To start recording;
Push the button on the streamcorder.
  In case of GY-DV300 : [REC START/STOP] button
  In case of GY-DV5000 : [VTR Trigger] button
  In case of BR-DV6000 : [REC] button + [PLAY] button
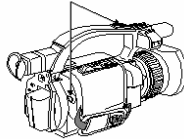 (See the streamcorder's instructions for details about the buttons.)
The [e] sign turns red on the display of streamcorder indicating that you are recording.

To stop recording;
Push the button on the streamcorder again during the [e] sign is red.
  In case of GY-DV300 : [REC START/STOP] button
  In case of GY-DV5000 : [VTR Trigger] button
  In case of BR-DV6000 : [STOP] button
  (See the streamcorder's instructions for details about the buttons.)

REC START/STOP Button

* This figure shows a GY-DV300. For details of other models, please see their respective instructions.

SPLIT – In this mode, you can record on the DV tape and/or the PC (running Streamproducer) independently. It is not necessary to have a recordable tape in the streamcorder.

To start recording;
Push the button on the streamcorder.
  In case of GY-DV300 : [SELECT] dial
  In case of GY-DV5000 : [VTR Trigger] button beside of the
           streamcorder's POWER switch.
  In case of BR-DV6000 : [SET] button
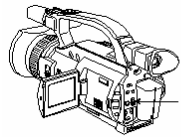 (See the streamcorder's instructions for details about the buttons.)
The [e] sign turns red on the display of streamcorder indicating that you are recording.

To stop recording;
Push the button on the streamcorder again during the [e] sign is red.
  In case of GY-DV300 : [SELECT] dial
  In case of GY-DV5000 : [VTR Trigger] button beside of the streamcorder's POWER switch.
  In case of BR-DV6000 : [SET] button
(See the streamcorder's instructions for details about the buttons.)

SELECT DIAL

* This figure shows a GY-DV300. For details of other models, please see their respective instructions.

OFF – Trigger mode is disabled, and the streamcorder and Streamproducer work independently, the streamcorder record button controls recording to tape, and the Streamproducer 'Capture' button controls PC capturing.

4.3 File Playback

Streamproducer can playback movie clip files saved on the hard disk or CompactFlash (CF) memory card, up to four files simultaneously, each is shown on its own video display window. In addition, you can cast (stream) from any one of these files, and even switch between them.
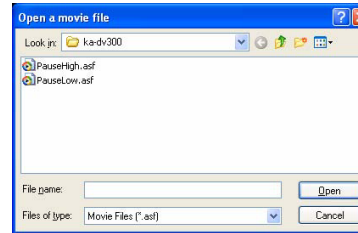
4.3.1 Selecting files

To open a file in any view window not already allocated ("No setting" is shown in title bar).

● Click the [Open] button on the video display window to open a file. The 'Open a movie file' dialog appears.
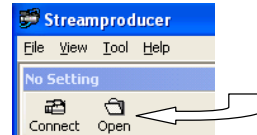
● Select a file and click [Open] button.

● When the file is selected, the file name and image size are shown above the video display window as are the operation buttons.

File name and image size

Operation buttons

● You can see additional information about the selected file by choosing [Property...] from the [Menu] pull-down.

Each video display window has its own set of operation buttons and menus that are independent of each other. It is possible to have up to four video display windows in use simultaneously and independently by clicking on its control buttons or operation menu.

Note: The individual buttons, play, pause, stop, repeat, and sound refer to the particular display window only and do not control the casting functions.

[Casting]
Click the [Casting] button to start casting (streaming video). See Section 4.4 for more information about casting. You can also start casting by choosing [Start/Switch Casting] from the [Menu] pull-down. When casting from a window, the border of that window will turn blue and the [Casting] button is highlighted.

[Play]
Click the [Play] button to start the file playback. You can also start playback by choosing [Play] from the [Menu] pull-down. The file starts to playback from the beginning.

[Pause]
Click the [Pause] button to pause playback of the file. You can also pause by choosing [Pause] from the [Menu] pull-down. When paused, the [Pause] button is highlighted.
Click the [Play] button or [Pause] button to resume file playback from the current point.

[Stop]
Click the [Stop] button to stop the file playback. You can also stop by choosing [Stop] from the [Menu] pull-down. Unlike the pause button, the stop button moves the seekbar to the beginning of the video clip file. Therefore, when [Play] is pressed again, playback begins from the first frame of the file.

[Repeat]
 Click the [Repeat] button to automatically repeat playback the same file. You can also activate repeat playback by choosing [Repeat] from the [Menu] pull-down.
The [Repeat] button appears to be pushed (highlighted) if you click it. This indicates that the repeat function is in effect. Click the [Repeat] button again to disable the repeat function. From the [Menu] pull-down, if repeat is checked, then the repeat function is enabled, if it is not checked, then the function is disabled.

[Sound]
Click the [Sound] button to enable sound output for the currently open file. You can also enable sound output by choosing [Output Sound] from the [Menu] pull-down.
The [Sound] button appears to be pushed (highlighted) when clicked to indicate output sound is enabled. Click the [Sound] button again to mute the sound, the [Sound] button switches to the default position, sound off. You can also mute the sound by choosing [Output Sound] from the [Menu] pull-down. If 'Output sound' is checked, then sound output is enabled, if it is not checked, then the function is disabled.
You can hear the sound from multiple windows simultaneously.

[Zoom]
Choose [Fit to Window Size], [50%], [100%] or [200%] from [Zoom] button to change the magnification of the displaying image. You can also change the magnification by choosing [Zoom] from the [Menu] pull down of each video display window. Each window can have a different zoom factor.

[Property…]
Choose [Property...], from the [Menu] pull-down (no associated operation button) to view the detailed information about the file. The displayed information includes the file name and path, the image size, clip length, bit rate, and the audio and video CODECs used.

[Open Other File…]
Choose [Open Other File], from the [Menu] pull-down (no associated operation button) to close the currently opened file and open another file for playback or casting.

[Close]
Choose [Close], from the [Menu] pull-down to close the currently open file. The title bar of the Video display windows reverts to "No Setting".

To use the seekbar, with a mouse, click on and drag the file pointer to the point where you want playback to start.
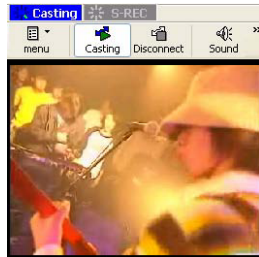
4.4 Casting

'Casting', also referred to as Streaming, is sending the image from any one of the four video sources to remote viewers through a network, such as an Intranet or the Internet. It is possible to cast live video from connected streamcorders or video from selected files. The casting monitor window of the Streamproducer desktop displays the current cast image. The [Casting] sign turns blue while casting.

4.4.1 Start casting

Click the [Casting] button in any one of the display windows that is showing streamcorder output or a clip file to start casting the video from that display window. You can also start casting by choosing [Start Casting] from the [Menu] pull-down.

When selected for casting, the window border will turn blue, indicating the active window, and (after a few seconds) the image will appear in the casting window. Casting starts.

The casting monitor window displays the casting image and, the [Casting] sign turns blue while the casting is in progress.

4.4.2 Controlling the casting image

You can control the casting image by using the buttons over the casting monitor window. These buttons are independent from any function buttons in the other windows.

[Casting]
This button is highlighted automatically when a casting button is clicked in any video display window. When it is highlighted, clients can connect to Streamproducer using Windows Media Player and see the cast video. If this button clicked while any image has not been cast, the "Streamproducer" logo image is cast instead of other video.
To pause casting image:
Click [Casting] button on the video display window with the blue frame (casting status) to pause the casting. During the casting of a movie file, clicking [Pause] button or [Stop] button makes the casting paused. The casting is paused also when the playback is finished. The recording of the casting image is also paused during the pausing, but the Streamproducer continues to cast the "Streamproducer" logo until the pausing is released. To release the pausing and start casting again, click [Casting] button on the video display window.

[Disconnect]
Click [Disconnect] button to stop casting.

[Sound]
Clicking this button or choosing [Output Sound] from the [Menu] pull down of the casting monitor window turns on the monitoring of the sound of the cast video. When sound monitoring is activated, the button will be highlighted.
Click again to mute the sound. When muted, the button will not be highlighted.
The sound function enables *monitoring* of the audio being cast along with the video. It does not affect the stream casting audio. Streamproducer outputs the sound of the streaming image even if [Output Sound] is off.

[Size]
Choose [Small], [Medium] or [Large] from [Size] button to change the size of casting monitor window. You can also change the size by choosing [Display Size] from the casting monitor window [Menu] pull-down.
All currently displayed windows will resize when the casting view window is resized.

4.5 Capturing casting images

In addition to saving the streams from any or all connected streamcorders, you can save the cast images automatically.

To automatically save the cast video stream:, from the 'Options' dialog (see Section 6.2) check the 'Capture casting contents simultaneously' check box. When this option is selected, all cast video streams will also be saved to the location specified in the Options dialog box.

Note: You can only set these functions when not connected to a streamcorder or file.
When capturing the cast video, the red S-REC flag will be highlighted along with the blue Casting flag.

5. Receiving the video stream from Streamproducer

You can receive and view the cast video stream from the Streamproducer by using Windows Media Player anywhere in the world.
Version 7.1 (for Windows 2000) and 8.0 (for Windows XP) of Windows Media Player can be used.

Start Windows Media Player and choose [Open URL…] from the [File] menu.

Enter the URL for receiving the casting image. The URL is specified by the IP address and port number of the video stream being cast by Streamproducer.

You can determine the casting IP address and port number by clicking on the 'Connections' tab on the Streamproducer desktop. Both the Internet URL and LAN URL are shown in this window.

The client viewers must enter the appropriate URL for their connection in the Windows Media Player 'Open' dialog box to receive the video stream. Enter the URL and click [OK].

Sample of Internet URL: Sample of LAN URL:

Notes:

- **Under normal circumstances, the received video stream should be continuous. However, when the video source is switched in Streamproducer, the received stream may be momentarily interrupted. In addition, if the switched video has a different bit rate, Windows Media Player may drop the connection.**

- Network congestion may result in jerky motion

- If you are experiencing problems receiving the video stream, please refer to Chapter 8, "Troubleshooting".

6. Information window and Option dialog

6.1 Information window

This section describes the windows available by clicking on the index tabs in the lower right portion of the Streamproducer desktop.

The three condition windows, accessed by clicking on the 'System', 'Cast', or 'Connections' tabs, show the general condition of the PC and information about casting and connections

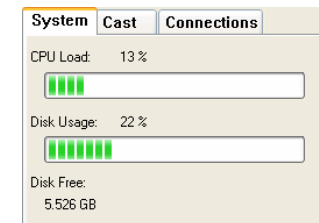The following information is available by clicking on the 'System' tab:

CPU Load
This bar graph shows the approximate load on the CPU.

Disk Usage
This bar graph shows the approximate amount of free-space left on the disk for capturing the video images. For systems with multiple drives, the disk specified in the options menu (see Section 6.2) where the video capture files are located is shown.

Disk Free
Shows amount of free disk remaining in GB.

The following information is available by clicking on the 'Cast' tab:

Source
Shows the source of the video that is currently being cast.

Total time
Shows the total time that the video from the source is being cast.

Size
Shows the pixel dimensions of the casting image. (Width x Height).
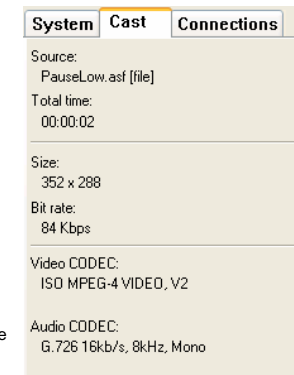
Bit rate
Shows bit rate of the casting image.

Video CODEC
Shows Video Codec used for the creation of the casting image.

Audio CODEC
Shows Audio Codec used for the creation of the audio portion of the stream.

The following information is available by clicking on the 'Connections' tab.

Internet URL
Shows the internet URL that users who want to receive the cast video must use for Windows Media Player.
For details on the process of receiving the casting image, refer to Section 5 "Receiving the video stream from Streamproducer".
More than one URL will be listed if you are in multi network connections. Use the URL of the interface not connected to the streamcorder, unless only one interface is used to connect to both the streamcorder and the internet through a switch.

LAN URL
When connecting via a local LAN, you can use this LAN name instead of the Internet URL for viewing the video stream with Windows Media Player.

Copy Internet URL
This button is a shortcut for copying the Internet URL to Clipboard so that you can paste it into the address bar of another application such as your own Windows Media Player for testing, or into your message to inform the URL to your clients by e-mail.

Copy LAN URL
This button is a shortcut for copying the LAN URL so that you can paste it into the address bar of another application, such as Windows Media Player.
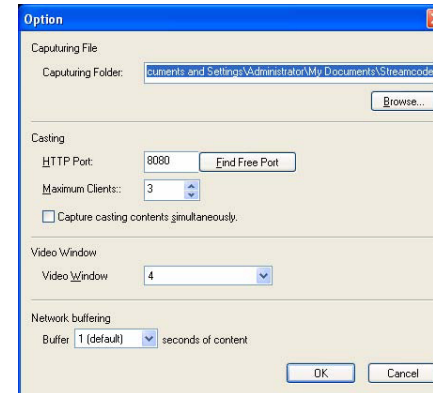
Clients
This window shows the IP addresses of the clients connected to your streamproducer.
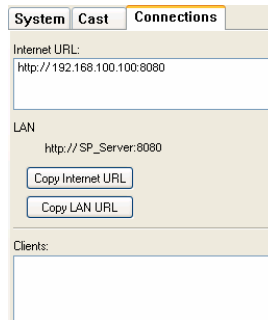
6.2 Option dialog

Options, such as selecting the folder for saving video streams, casting ports and the number of video windows can be selected by choosing [Option...] from the [Tool] pull-down menu of Streamproducer.

Capturing Folder
You can specify the disk drive and folder to save recorded images. A subfolder is automatically created under the specified folder according to the connected streamcorder name, and the video clips are stored in this subfolder. For this reason, we recommend that each connected streamcorder be given a unique name.
You can type in a folder path directly, or you can click the [Browse...] button to search for an appropriate drive and folder.

HTTP Port
This field allows you to specify the HTTP port number for casting. An unused port number can be found by clicking the [Find Free Port] button. You can only set this parameter when not connected to any streamcorder or file.

Maximum Clients
The number of clients that can connect to Streamproducer at the same time. The maximum is 10. You can only set this parameter when not connected to any streamcorder or file.

Capture casting contents simultaneously
Checking this box captures the cast video stream to a file. This option must be enabled before casting begins. You can only set this parameter when not connected to any streamcorder or file.

Video Window
If you are only connecting to one or two streamcorders, you can use this field to change the number of Video display windows. You can only set this parameter when not connected to any streamcorder or file.

Network buffering
This function is for making the received images stabled by storing some image data from the streamcorder in your PC before displaying. The amount (time) of image data for storing can be selected from 1 second to 5 seconds. It means that the longer buffering possibly provides the stabled image if the network is in poor condition.

7. Stream Format File Generator

Stream Format File Generator is the software to generate the Stream format files needed for the setting of multi casting by Windows Madia Server.

Select [Stream Format File Generator] from the [Tool] pull-down menu of Streamproducer to start it.
For detail operations, please read the Stream Format File Generator's Help.

8. Troubleshooting

The following topics include common solutions to problems you may encounter when using Streamproducer.

Failed in connection to a streamcorder.
Make sure the IP address and RTSP port number of the streamcorder and Streamproducer are the same.
>> Enter the IP address and port number correctly in Streamcorder Setting dialog box.

Verify the set up of your PC network. It is necessary to establish a LAN connection with streamcorders correctly.
>> Check the LAN card manual for more detail.
>> Certain Proxy Server and/or firewall configurations may prevent streaming. Please consult your IT department if you suspect this may be a problem

Confirm that the LAN card is inserted correctly in the network pack.
>> Make sure the LAN card is oriented properly and seated in the PCMCIA slot.

Signals may be poor when using wireless LAN between streamcorder and PC.
>> Place metal articles that may be blocking (or reflecting) the transmission away from the streamcorder and your PC.
>> The distance between the streamcorder and your PC may exceed the maximum allowed for a reliable connection. Check the manual for the wireless LAN card to confirm the maximum distance.
>> Other devices in the 2.4 GHz band, such as cordless phones and other wireless networks may be interfering. 2.4 GHz wireless phones have approximately a half mile range.

Port setting may not be correct.
>> Make sure the setting of your personal firewall allows connections to the assigned ports if you are using WindowsXP.
>> Ask your network administrator to make sure the port setting is allowed if you have network devices such as a router between the streamcorder and your PC.

Unable to receive live image contents from a streamcorder.
Communications with the streamcorder may have been interrupted by some reasons. In addition, bandwidth to connect to a streamcorder may not be sufficient to receive video from the streamcorder.
>> Refrain from using microwave devices near to the machines when using wireless LAN.
>> Place metal articles that may be blocking or reflecting the transmission away from the streamcorder and your PC when using wireless LAN.
>> Make sure the LAN cables are correct and working.
>> Make sure the LAN card is inserted correctly in the network pack.
>> If using a proxy server or other devices between the streamcorder and your computer, make sure that they are configured properly.

Unable to receive casting image.
Try Pinging the IP address of Streamproducer. You may receive the casting image after successfully pinging Streamproducer.

To send a Ping command:
1. Click [Command Prompt] from [Accessories] menu of [Program] by Windows [Start] button.
2. In the Command Prompt window, type "ping *IP address of Streamproducer*" after the command prompt, press [Enter]. For exmple, C: >ping 192.168.100.101
3. If the ping works, try receiving the cast video again. If the ping fails, something is wrong you're your network connection.

Confirm that the receiving PC is connected to the Internet (LAN) correctly.

Confirm that the access point is specified correctly on the Windows Media Player.
The CODEC (a software program required for compressing or expanding the AV data) is not installed correctly.

"Error" in starting live or playback files.
The CODEC (a software program required for compressing or expanding the AV data) is not installed correctly.

Unable to download the CODEC.
If you use Windows Media Player 7.1 and a proxy server for internet connections, setup the proxy server correctly by [Control Panel] > [Internet Options] > [Connections] regardless of a browser you use usually.

Unable to cast or change casting contents.
Make sure the contents were generated by the streamcorders. Streamproducer assures you of processing only contents recorded or streamed by the streamcorders.

Unable to record.
Confirm in the information window that your PC has enough free space on the hard disk.

Live contents are not smooth.
Make sure on information window that your PC has enough CPU power left.

Refrain from running other applications at the same time.

Try to connect to fewer streamcorders or playback fewer files at the same time.

Try to stop and resume recording or casting.

Disable the DirectDraw acceleration on the Display property dialog.
1. Click the right button of the mouse pointing desktop and choose Properties to open [Display Properties] dialog box.
2. Click [Settings] tab, [Advanced] button, and [Troubleshooting] tab.
3. Drag the bar of Hardware acceleration to control the level.
4. Change the level to disable the DirectDraw acceleration referring the message on this dialog box.
5. Click [OK] button after your settings.

Unable to hear the sound.

Turn the [Sound] button on of the video display window.

Unable to start the application.

Restart your PC once.

The Application may not be installed correctly.

>> Install the application again. (See "3. Install/Uninstall Streamproducer" about install.)