

OPERATING INSTRUCTIONS

[TM-H1900G/E/TM-H1900G/J]

JVC

COLOR VIDEO MONITOR

TM-H1900G TM-H1700G

INSTRUCTIONS

For Customer Use:

Enter below the Serial No. which is located on the rear of the cabinet.
Retain this information for future reference.

Pour l'usage du client:

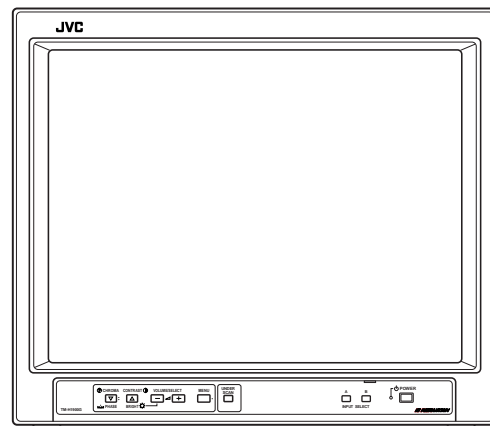
Enter ci-dessous le numéro de série qui est situé sur l'arrière du coffret.
Conserver cette information pour une référence ultérieure.

Model No. :

Numéro de modèle : _____

Serial No. :

Numéro de série : _____



(TM-H1900G shown)
(Gezeigtes Modell ist TM-H1900G)
(TM-H1900G montré)
(Modello TM-H1900G)
(Muestra de TM-H1900G)
(TM-H1900G 表示)

LCT1092-002A-H

Jun. 2002 No. 51960

SAFETY PRECAUTIONS

In order to prevent any fatal accidents caused by misoperation or mishandling the monitor, be fully aware of all the following precautions.

WARNINGS

To prevent fire or shock hazard, do not expose this monitor to rain or moisture. Dangerous high voltages are present inside the unit. Do not remove the back cover of the cabinet. When servicing the monitor, consult qualified service personnel. Never try to service it yourself.

WARNING : THIS APPARATUS MUST BE EARTHED.

Machine Noise Information Ordinance 3. GSGV, January 18, 1991: The sound pressure level at the operator position is equal or less than 70 dB(A) according to ISO 7779.

Improper operations, in particular alternation of high voltage or changing the type of tube may result in x-ray emission of considerable dose. A unit altered in such a way no longer meets the standards of certification, and must therefore no longer be operated.

This monitor is equipped with a 3-blade grounding-type plug to satisfy FCC rule. If you are unable to insert the plug into the outlet, contact your electrician.

FCC INFORMATION (U.S.A. only)

CAUTION: Changes or modification not approved by JVC could void the user's authority to operate the equipment.

NOTE: 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 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.

Notice (U.S.A. only)

This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <<http://www.eiae.org>>

POWER CONNECTION

The power supply voltage rating of this product is AC 120 V (For U.S.A. and Canada only) and AC 230 V (For European countries or United Kingdom), the power cord attached conforms to the following power supply voltage and countries. Use only the power cord designated to ensure Safety and EMC regulations of each countries.

Power cord



Power supply voltage : AC 120 V
Countries : U.S.A. and Canada



AC 230 V
European countries



AC 230 V
United Kingdom

Warning:

- Do not use the same Power Cord for AC 120 V as for AC 230 V. Doing so may cause malfunction, electric shock or fire.

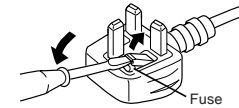
Note for the United Kingdom power cord only

The plug on the United Kingdom power cord has a built-in fuse. When replacing the fuse, be sure to use only a correctly rated approved type, re-fit the fuse cover.
(Consult your dealer or qualified service personnel.)

How to replace the fuse

Open the fuse compartment with the blade screw driver, and replace the fuse.

(* An example is shown in the illustration.)



SCREEN BURN

- It is not recommended to keep a certain still image displayed on screen for a long time as well as displaying extremely bright images on screen. This may cause a burning (sticking) phenomenon on the screen of cathode-ray tube. This problem does not occur as far as displaying normal video playback motion images.

PRECAUTIONS

- Use only the power source specified on the unit. (120 V AC/230 V AC, 50 Hz/60Hz)
- When not using this unit for a long period of time, or when cleaning it, be sure to disconnect the power plug from the AC outlet.
- Do not allow anything to rest on the power cord. And do not place this unit where people will tread on the cord. Do not overload wall outlets or power cords as this can result in a fire or electric shock.
- Avoid using this unit under the following conditions:
 - in extremely hot, cold or humid places,
 - in dusty places,
 - near appliances generating strong magnetic fields,
 - in places subject to direct sunlight,
 - in badly ventilated places,
 - in automobiles with doors closed.
- Do not cover the ventilation slots while in operation as this could obstruct the required ventilation flow.
- When dust accumulates on the screen surface, clean it with a soft cloth.
- Unplug this unit from the AC outlet and refer servicing to qualified service personnel under the following conditions:
 - when the power cord is frayed or the plug is damaged,
 - if liquid has been spilled into the unit,
 - if the unit has been dropped or the cabinet has been damaged,
 - when the unit exhibits a distinct change in performance.
- Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Always refer servicing to qualified service personnel.
- When replacement parts are required, have the service personnel verify in writing that the replacement parts he/she uses have the same safety characteristics as the original parts. Use of manufacture's specified replacement parts can prevent fire, shock, or other hazards.
- Upon completion of any servicing or repair work to this unit, please ask the service personnel to perform the safety check described in the manufacturer's service literature.
- When this unit reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask qualified service personnel to dispose of this unit.

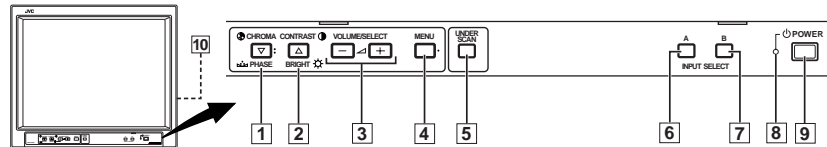
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CONTROLS AND FEATURES

FRONT VIEW

<Front Panel>



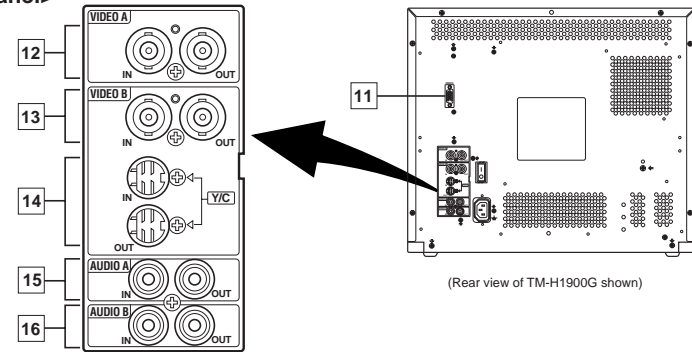
(Front view of TM-H1900G shown)

- 1 Chroma/Phase button [CHROMA/PHASE]**
Press this button to activate the picture color density adjustment mode or picture hue adjustment mode. Each time you press the button, the adjustment item changes.
Picture color density ⇄ **Picture hue**
Adjust the value with the VOLUME/SELECT buttons [3]. Also used as a control button in the menu function mode.
- 2 Contrast/Brightness button [CONTRAST/BRIGHT]**
Press this button to activate the picture contrast adjustment mode or picture brightness adjustment mode. Each time you press the button, the adjustment item changes.
Picture contrast ⇄ **Picture brightness**
Adjust the value with the VOLUME/SELECT buttons [3]. Also used as a control button in the menu function mode.
- 3 Volume/Select buttons [VOLUME/SELECT]**
Adjusts the speaker volume. Also used as a control button in the menu function mode.
- 4 Menu button [MENU]**
Displays and disappears the <MENU> screen. Pressing the CHROMA/PHASE button [1] with the Menu button depressed will display the <SET-UP MENU> screen.
- 5 Under Scan button [UNDER SCAN]**
Reduces the screen size to display the entire image. Press the button again to cancel Under Scan. When selected, the Under Scan button lights.

- 6 Input A (VIDEO) button [INPUT SELECT A]**
Selects the video and audio signals input to the VIDEO A [12] and AUDIO A [15] terminals on the rear panel. The button lights when selected.
- 7 Input B (VIDEO Y/C) button [INPUT SELECT B]**
Selects the video and audio signals input to the VIDEO B [13] or VIDEO B (Y/C) [14] and AUDIO B [16] terminals on the rear panel. The button lights when selected.
Note:
• The VIDEO B terminals include a video terminal (BNC connector) and a Y/C terminal (mini-DIN 4-pin connector). The Y/C (S-video) terminal has priority.
- 8 Power indicator**
Unlit : The main power is OFF.
Orange : The main power is ON, but the monitor's power is OFF (in the stand-by mode).
Green : The main power is ON, and the monitor's power is ON (in the normal operation mode).
- 9 Power switch [POWER]**
Press the power switch to turn the monitor's power ON or OFF when the main power is ON.
Note:
• When RUSH DELAY is set to SLOW, it takes about three seconds before power is actually supplied after the power switch is pressed.
- 10 Speaker**
A built-in speaker is located inside the right side panel when the monitor is viewed from the front.

REAR VIEW

<Rear Panel>



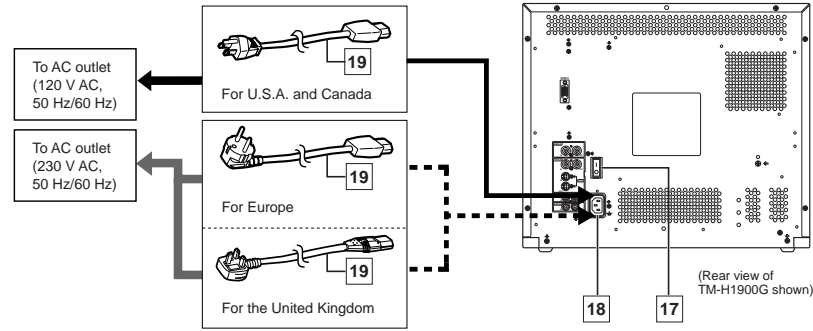
(Rear view of TM-H1900G shown)

- 11 REMOTE (external control) terminal**
Connect this terminal to an external control unit to enable remote operation of the monitor. Refer to the HOW TO USE EXTERNAL CONTROL on page 15 for more details.
- 12 Video A terminals [VIDEO A IN/OUT]**
Video signal input (IN) and output (OUT) terminals. The output terminal is bridge-connected. (The input signal is automatically terminated if a cable is not connected to the OUT terminal.)
IN : Video signal input terminal
OUT : Bridge-connected video signal output terminal
Notes:
* For corresponding audio signals, use the AUDIO A terminals [15].
* Also refer to BASIC CONNECTION EXAMPLE on page 13.
- 13 Video B terminals [VIDEO B IN/OUT]**
Video signal input (IN) and output (OUT) terminals. The output terminal is bridge-connected. (The input signal is automatically terminated if a cable is not connected to the OUT terminal.)
IN : Video signal input terminal
OUT : Bridge-connected video signal output terminal
Notes:
* For corresponding video signals, use the VIDEO A terminal [12].
* Also refer to BASIC CONNECTION EXAMPLE on page 13.
- 14 Video B (Y/C) terminals [VIDEO B Y/C IN/OUT]**
Y/C (S-video) signal input (IN) and output (OUT) terminals. The output terminal is bridge-connected. (The input signal is automatically terminated if a cable is not connected to the OUT terminal.)
IN : Y/C-separated (S-video) video signal input terminal
OUT : Bridge-connected Y/C-separated (S-video) signal output terminal.
Notes:
* For corresponding audio signals, use the AUDIO B terminals [16].
* When both VIDEO B terminals are connected (input) at the same time, the Y/C terminal has priority.
* Also refer to BASIC CONNECTION EXAMPLE on page 14.
- 15 Audio A terminals [AUDIO A IN/OUT]**
Input (IN) and output (OUT) terminals for the audio signal corresponding to the VIDEO A terminals [12]. The output terminal is bridge-connected.
IN : Audio signal input terminal
OUT : Bridge-connected audio signal output terminal
Notes:
* For corresponding video signals, use the VIDEO A terminal [12].
* Also refer to BASIC CONNECTION EXAMPLE on page 13.
- 16 Audio B terminals [AUDIO B IN/OUT]**
Input (IN) and output (OUT) terminals for the audio signals corresponding to the VIDEO B terminals [13] VIDEO B (Y/C) [14]. The output terminal is bridge-connected.
IN : Audio signal input terminal
OUT : Bridge-connected audio signal output terminal
Notes:
* For corresponding video signals, use the VIDEO B terminals [13] or VIDEO B (Y/C) terminals [14].
* Also refer to BASIC CONNECTION EXAMPLE on pages 13 and 14.

CONTROLS AND FEATURES (cont'd)

REAR VIEW

<Rear Panel>



17 Main power switch

Press the switch to turn the main power ON or OFF. When the main power is ON, the power indicator on the front panel lights in orange and the monitor enters the standby mode.

I : ON O : OFF

18 AC inlet [AC IN]

Power input connector. Connect the provided AC power cord [19] to an AC outlet (120 V AC or 230 V AC, 50 Hz/60 Hz).

19 Power cord

Connects the provided power cord (120 V AC or 230 V AC, 50 Hz/60 Hz) to the AC IN connector [18].

Caution:

In North America (USA and Canada), this monitor comes with one power cable. In Europe and the United Kingdom, two power cables are provided (one for use in continental European countries and the other for the UK). Be sure to use the power cable that is appropriate for the AC outlets used in your region. If none of the power cables provided is suitable, please contact your dealer or qualified service personnel to obtain the correct type of power cable.

HOW TO HANDLE BASIC OPERATIONS

BASIC OPERATION

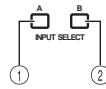
1. Press the main power switch to turn on the power.

2. Press the POWER switch to turn on the power.



ON : Power turns ON. (Power indicator: lit)
 Green : The main power is ON, and the monitor's power is ON (in the normal operation mode).
OFF : Power turns OFF. (Power indicator: unlit)
 Orange : The main power is ON, but the monitor's power is OFF (in the standby mode)
 Unlit : The main power is OFF.

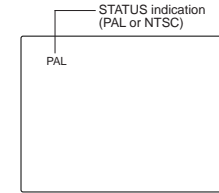
3. Press the INPUT SELECT buttons to choose input.



Select video/audio signals input to terminals on the rear panel. The selected button lights in green.

INPUT SELECT buttons	Terminals on the rear panel	
	Video signal input	Audio signal input
① Input A (VIDEO)	VIDEO A terminal	AUDIO A terminal
② Input B (VIDEO Y/C)	VIDEO B terminal	AUDIO B terminal
	VIDEO B (Y/C) terminal	

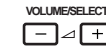
Note: The Y/C (S-video) terminal has priority.



About the STATUS indication

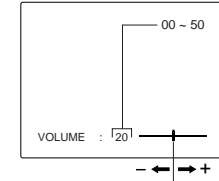
- With the COLOR SYSTEM setting set to AUTO mode, when you turn on the power or select inputs, the color system indication appears for about 3 seconds on the screen while PAL or NTSC signals are being detected. It does not appear when receiving a B/W signal or when no signal is input. Refer to page 9 for more information about COLOR SYSTEM setting and page 10 for more information about STATUS indication setting.

4. Press the VOLUME/SELECT buttons to adjust the speaker volume.



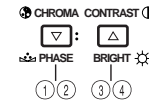
Press this button to display the speaker volume level on the screen.

- + : The Built-in speaker volume is increased. (00 → 50)
- : The Built-in speaker volume is decreased. (50 → 00)
- * Screen indication will disappear about 10 seconds after operating.
- * The on-screen display goes off when you press MENU button.



PICTURE ADJUSTMENT

1. Press select buttons corresponding to the item you want to adjust.



The item you select is displayed on the screen.

- ① Chroma control : Press the CHROMA/PHASE button once.
- ② Phase control : Press the CHROMA/PHASE button twice.
- ③ Contrast control : Press the CONTRAST/BRIGHT button once.
- ④ Brightness control : Press the CONTRAST/BRIGHT button twice.

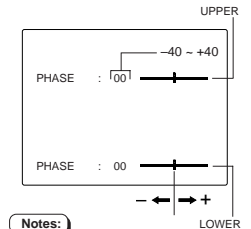
* Pressing the CHROMA/PHASE button and CONTRAST/BRIGHT button alternately while the item is shown on screen restores the previous status. When no item is shown on screen, CHROMA and CONTRAST have priority.

2. Adjust with the VOLUME/SELECT buttons.



Items	VOLUME/SELECT button	
	-	+
CHROMA (Chroma)	lighter	deeper
PHASE (Phase)	reddish	greenish
CONTRAST (Contrast)	lower	higher
BRIGHT (Brightness)	darker	brighter

* Screen indication will disappear about 10 seconds after operating.
 * The on-screen display goes off when you press MENU button.



Notes:

- Phase control is effective only in the NTSC color system mode.
- Chroma control is not effective when receiving B/W or when no signal is input.
- When CHROMA is adjusted to "-40," the picture becomes less colorful.
- "NO EFFECT" is displayed (for about 3 seconds) when your selected function has no effect.
- To change the display position on screen, set UPPER or LOWER with ADJ. BAR POSI.

HOW TO HANDLE BASIC OPERATIONS (cont'd)

VIDEO SIGNAL CONTROLS

Use these buttons for video signal control.

UNDER SCAN

Press the UNDER SCAN button to reduce the size of display area so that the whole picture is displayed on screen. Use to check the picture frame.



HOW TO USE THE MENU FUNCTIONS

DISPLAY AND SELECTION IN THE <MENU> SCREEN MODE (SETTING)

You can set the following menu items. Set them depending on your needs.

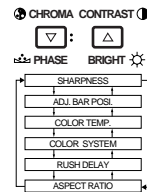
- SHARPNESS
- ADJ. BAR POSI.
- COLOR TEMP.
- COLOR SYSTEM
- RUSH DELAY
- ASPECT RATIO

1. Press the MENU button.



The <MENU> screen is displayed.
* The on-screen display goes off automatically after about five minutes with operation performed.

2. Press the CHROMA/PHASE or CONTRAST/BRIGHT button to select MENU items.



A selection mark (▶) is put next to the selected item.

Front panel button	Function displayed	Contents
CHROMA/PHASE	▼	Forward selection mark (▶)
CONTRAST/BRIGHT	▲	Reverse selection mark (▶)

3. Press the VOLUME/SELECT buttons to set.



Front panel button	Function displayed	Contents
VOLUME/SELECT (+)	+	Increase (to max. value)
VOLUME/SELECT (-)	▶	Forward the setting value
	-	Decrease (to min. value)
VOLUME/SELECT (-)	◀	Reverse the setting value

Menu items	Purpose	Setting range
SHARPNESS	Picture sharpness	00 ↔ +01 - ↔ +39 ↔ +40
ADJ. BAR POSI.	Volume bar position	LOWER ↔ UPPER
COLOR TEMP.	Color temperature of white balance	6500 ↔ 9300
COLOR SYSTEM	Color system	AUTO ↔ NTSC ↔ AUTO ↔ PAL
RUSH DELAY	Delay value	STD. ↔ SLOW
ASPECT RATIO	Aspect ratio	4-3 ↔ 16-9

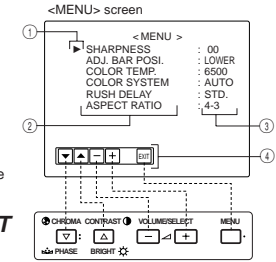
* For normal use, leave the COLOR SYSTEM setting to AUTO. If reception is unsatisfactory in AUTO position, set it to the appropriate color system mode (NTSC or PAL).
* When REMOTE SYSTEM is set to MAKE, and REMOTE ENABLE signal is short circuited (ON), "REMOTE" is displayed on the ASPECT RATIO setting menu, and Aspect ratio cannot be operated from the front panel.

4. If you want to set the other menu items, repeat procedures 2 and 3.

5. Press the MENU button to quit.



Front panel button	Function displayed	Contents
MENU	EXIT	Quit (or Release) the <MENU> screen



- <Front panel buttons>
- Selection mark (▶): Indicates the menu item you select.
 - Menu item: Menu items you can select.
 - Setting display: Indicates the current settings (value).
 - Function display: The functions of the front panel buttons (5 buttons on the left) correspond to the function displayed.

Function displayed	Contents
▼	Forward the menu item.
▲	Reverse the menu item.
-	Lower the adjustment value. (to the minimum)
+	Raise the adjustment value. (to the maximum)
▶	Forward the setting value.
◀	Reverse the setting value.
EXIT	Exits the <MENU> screen.

Notes:

- When the screen aspect ratio is set to 16 - 9 (16:9) in ASPECT RATIO, the picture will be vertically reduced.
- RUSH DELAY sets the delay between the time the power switch is pressed and the time power is actually supplied to the monitor's circuits.
STD. : Power turns on approximately 1 second after the power switch is pressed.
SLOW : Power turns on approximately 3 seconds after the power switch is pressed.
- * When turning on multiple Color-Video Monitors simultaneously, it is recommended to use STD. or SLOW settings to reduce the rush current of the entire system.

HOW TO USE THE MENU FUNCTIONS (cont'd)

DISPLAY AND SELECTIONS IN THE <SET-UP MENU> MODE (SETTING)

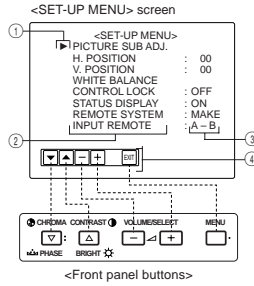
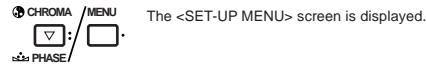
You can set the following set-up menu items.

- PICTURE SUB ADJ.
- H. POSITION
- V. POSITION
- WHITE BALANCE
- CONTROL LOCK
- STATUS DISPLAY
- REMOTE SYSTEM
- INPUT REMOTE

Notes:

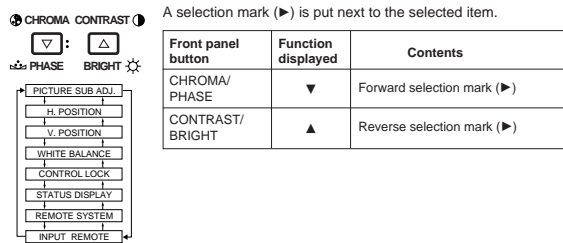
- Parameters for PICTURE SUB ADJ., H. POSITION and V. POSITION can be set separately depending on the signal (Input A (VIDEO), Input B (VIDEO) or Input B (Y/C)) selected with the input select buttons on the front panel in advance.
- WHITE BALANCE can be set independently at 6500 or 9300 for the color temperature value. Set COLOR TEMP. to 6500 or 9300 on the <MENU> screen beforehand.
- INPUT REMOTE is shown when REMOTE SYSTEM is set to MAKE.

1. While pressing the MENU button, press the CHROMA/PHASE button.

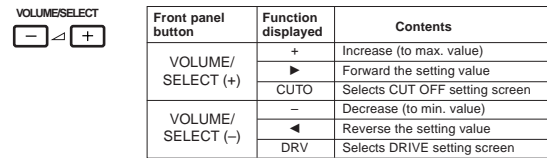


- 1 Selection mark (▶): Indicates the menu item you select.
- 2 Menu item: Menu items you can select.
- 3 Setting display: Indicates the current settings (value).
- 4 Function display: The functions of the front panel buttons (5 buttons on the left) correspond to the function displayed.

2. Press the CHROMA/PHASE or CONTRAST/BRIGHT button to select the desired menu item.



3. Press the VOLUME/SELECT buttons to set.



Notes:

- For WHITE BALANCE items, select the CUT OFF or DRIVE setting screen, then select the function display for adjustment.
- Press the EXIT (MENU) button to return to the <SET-UP MENU> screen.

Function displayed	Contents
▼	Forward the menu item.
▲	Reverse the menu item.
-	Lower the adjustment value. (to the minimum)
+	Raise the adjustment value. (to the maximum)
▶	Forward the setting value.
◀	Reverse the setting value.
EXIT	Exit the <MENU> screen.
DRV	Selects DRIVE adjustment.
CUTO	Selects CUT OFF adjustment.
RB	Adjusts red and blue signal level.
RGB	Adjusts red, green and blue signal level.
DISP	Turns the ON-SCREEN display on or off. (This function is effective only in the DRIVE or CUT OFF adjustment mode.)

Set-up menu items	Purpose	Settings
PICTURE SUB ADJ.	Image sub adjustment	Selects CONTRAST/BRIGHT/CHROMA/PHASE. The selected setting screen is shown. Select the function display for adjustment.
CONTRAST	Adjusts contrast.	-10 -- -9 -- ... -01 -- 00 -- +01 -- ... +09 -- +10
BRIGHT	Adjusts brightness.	-10 -- -9 -- ... -01 -- 00 -- +01 -- ... +09 -- +10
CHROMA	Adjusts color density.	*1 -10 -- -9 -- ... -01 -- 00 -- +01 -- ... +09 -- +10
PHASE	Adjusts hue.	*1 -10 -- -9 -- ... -01 -- 00 -- +01 -- ... +09 -- +10
H. POSITION	Adjusts the horizontal position of the screen (+: Horizontal position shifts to the right/-: Horizontal position shifts to the left)	-5 -- ... -- -01 -- 00 -- +1 -- ... -- +5
V. POSITION	Adjusts the vertical position of the screen (+: Vertical position moves up/-: Vertical position moves down)	-5 -- ... -- -01 -- 00 -- +1 -- ... -- +5
WHITE BALANCE	Adjusts the white balance.	Selects the drive (DRV) or cut off (CUTO) adjustment. The selected setting screen is shown. Select the function display for adjustment.
DRIVE	R. DRIVE: Adjusts red level. B. DRIVE: Adjusts blue level.	-20 -- -19 -- ... -01 -- 00 -- +01 -- ... +19 -- +20
CUT OFF	R. CUT OFF: Adjusts red cut off. G. CUT OFF: Adjusts green cut off. B. CUT OFF: Adjusts blue cut off.	-20 -- -19 -- ... -01 -- 00 -- +01 -- ... +19 -- +20
CONTROL LOCK	Sets the operation buttons on the front panel to control lock mode.	OFF ↔ ON
STATUS DISPLAY	Sets the status display of the color system.	OFF ↔ ON
REMOTE SYSTEM	Sets the external control function method.	MAKE ↔ TRG. *2
INPUT REMOTE	Sets external control of input selection. (Shown only when REMOTE SYSTEM is set to MAKE.)	A-B ↔ A/B *2

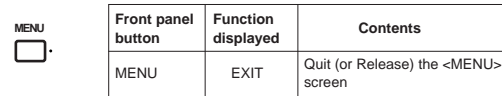
*1 May not be shown depending on the type of signals input.
*2 Refer to HOW TO USE EXTERNAL CONTROL on page 15 for more details.

Notes:

- When the CONTROL LOCK function is set to ON, pressing operation buttons on the front panel will display the message "CONTROL LOCK ON!" on the screen for about 3 seconds.
- The CONTROL LOCK function is maintained even when the power is turned off.
- To turn off the CONTROL LOCK function, while holding the MENU button press the CHROMA/PHASE button. Then set the CONTROL LOCK function to OFF.
- Even when the CONTROL LOCK function is set to ON, the following operations are available:
 - Power Switch operation
 - Volume control with the VOLUME/SELECT buttons
 - Display or disappear of the <SET-UP MENU> screen.
- The STATUS DISPLAY function can be set to display (ON) or not display (OFF) the present color system when the power is turned on or the input signal is changed. Refer to page 7 for more information.
- When REMOTE SYSTEM is set to MAKE and any one of the INPUT A and B buttons or the UNDER SCAN button is pressed, "REMOTE ON!" appears on screen for about 3 seconds. (Not shown with CONTROL LOCK set to ON.)
- When REMOTE SYSTEM is set to TRG, the front panel controls can be operated.
- INPUT REMOTE and REMOTE SYSTEM are enabled when REMOTE ENABLE is set to ON.

4. To set the other set-up menu items, repeat the procedures 2 and 3.

5. Press the MENU button to quit.



Note:

Setting	Description
MAKE	Make contact system: Controls the function using the control terminal's short-circuit and open (short-circuits or opens 15th terminal (GND)).
TRG.	Trigger system: Controls the function by short-circuiting (short-circuits or opens 15th terminal (GND)) with pulse (about 1 sec.)
A-B	Switches the input by short-circuiting a specified signal line in INPUT A or B.
A/B	Switches between INPUT A and INPUT B with D-sub pin 2.

HOW TO INITIALIZE THE SETTING

SCREEN DISPLAY AND SELECTIONS IN THE <SET-UP MENU> RESET MODE

You can set <MENU> and <SET-UP MENU> screen items, picture adjustment items and the volume level to their factory-set (initial) values.

1. Press the Power (⏻) switch to turn the power OFF (activate the standby mode).



2. While pressing both MENU button and CHROMA/PHASE button, press the Power (⏻) switch to turn the power ON.



The <SET-UP MENU> RESET screen is displayed.

Note:

The <SET-UP MENU> RESET screen will not be displayed if the MENU or CHROMA/PHASE buttons are pressed for a very short time. Keep pressing them until the display screen appears.

3. Setting

● Initialization is required.



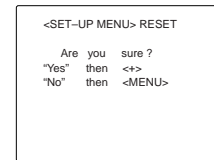
Press the VOLUME/SELECT [+] button.
* Initialization is completed, and the <SET-UP MENU> RESET screen disappears.

● Initialization is not required.



Press the MENU button.
* Initialization is aborted, and the <SET-UP MENU> RESET screen disappears.

<SET-UP MENU> RESET screen



Initial settings

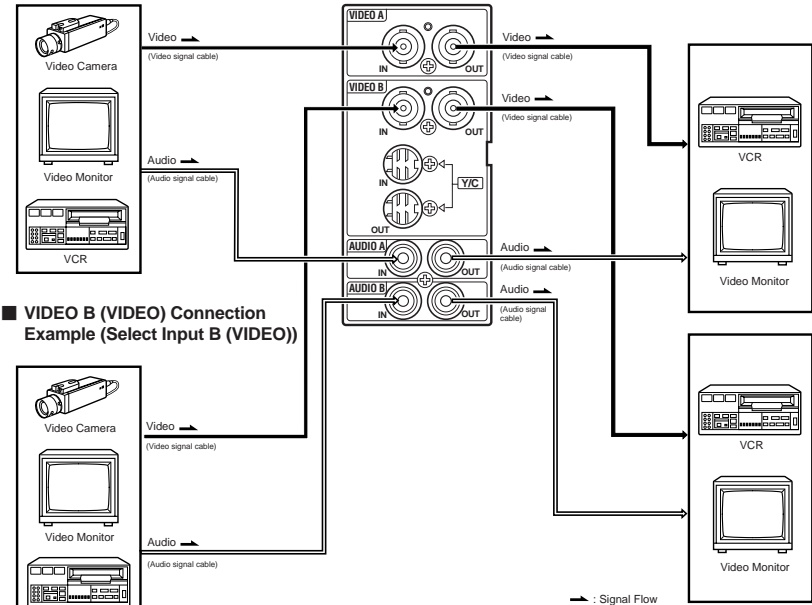
Sorts	Functions (Items)	Initialization (setting)
<MENU> screen	SHARPNESS	00
	ADJ. BAR POSI	LOWER
	COLOR TEMP	6500
	COLOR SYSTEM	AUTO
	RUSH DELAY	STD.
<SET-UP MENU> screen	ASPECT RATIO	4 - 3
	PICTURE SUB ADJ.	
	CONTRAST	00
	BRIGHT	00
	CHROMA	00
Picture adjustment	PHASE	00
	H. POSITION	00
	V. POSITION	00
	WHITE BALANCE	
	R. CUT OFF	00
	G. CUT OFF	00
	B. CUT OFF	00
	R. DRIVE	00
	B. DRIVE	00
	CONTROL LOCK	OFF
	STATUS DISPLAY	ON
	REMOTE SYSTEM	MAKE
	INPUT REMOTE	A - B
Volume	CHROMA	00
	PHASE	00
	CONTRAST	00
	BRIGHT	00
	VOLUME	20

BASIC CONNECTION EXAMPLE

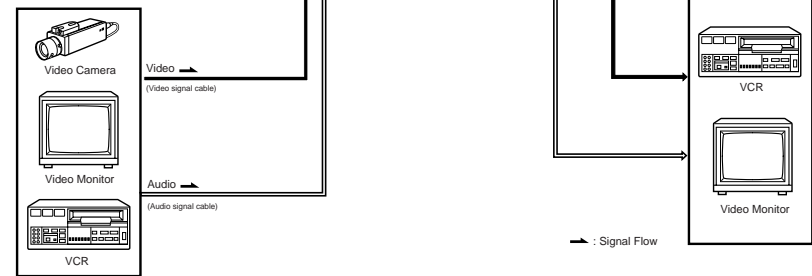
Notes:

- Before connecting your system, make sure that all units are turned off.
- The illustration below shows some examples of different connections. Terminal connections may differ depending on the component connected. Be sure to refer to the instructions provided with the unit(s) you are connecting.
- Each pair of input (IN) and output (OUT) terminals are bridge-connected.
- If you're not connecting any equipment to a bridged output (OUT) terminal, be sure not to connect any other cables to the bridged output (OUT) terminal as this will cause the terminating resistance switch to open (auto terminate function).
- When making a bridge connection, connect the input (IN) and output (OUT) terminals on the monitor to separate video components. (For example, if both terminals are connected to the same VCR, resonance may occur except during playback. This is caused by the same video signal "looping" between the VCRs, and is not a malfunction.)
- Select the video input signal (INPUT A(VIDEO) or INPUT B (VIDEO/Y/C)) with the INPUT SELECT buttons on the front panel. When both VIDEO B terminals are connected (input) at the same time, the Y/C terminal has priority.

VIDEO A Connection Example (Select Input A (VIDEO))



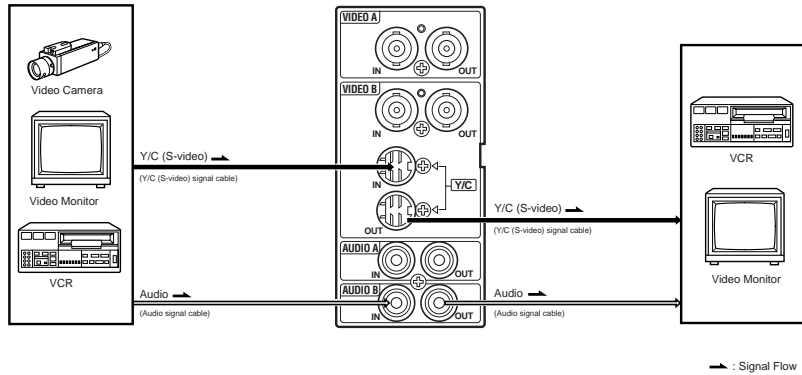
VIDEO B (VIDEO) Connection Example (Select Input B (VIDEO))



ENGLISH

BASIC CONNECTION EXAMPLE (cont'd)

VIDEO B (Y/C) Connection Example (Select Input B (Y/C))



HOW TO USE EXTERNAL CONTROL

ABOUT EXTERNAL CONTROL

This monitor is provided with an external control terminal. MAKE (make contact) or TRIG. (trigger) system can be selected by the setting of REMOTE SYSTEM in the <SET-UP MENU>.

MAKE (make contact system) : The function is controlled by short-circuiting or disconnecting each control terminal with pin 15 (GND).

TRIG. (trigger system) : The function is controlled by short-circuiting with pulses (for about 1 second) (short-circuit/open with the 15th pin GND).

* The 14th pin (REMOTE ENABLE) is controlled with MAKE even though TRIG. is selected.

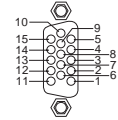
Note:

• When this monitor is externally controlled, the following buttons are disabled.

MAKE: INPUT-A and B, UNDER SCAN on the front panel.

Connections

Connect (short-circuit) the 15th terminal (GND) to each of the 1st through 14th terminals in the 3-lines 15-pins D-sub connector. The functions of each terminal are listed below.



The Names and Functions of Terminals

No.	Names	Functions	Operations (OFF ← → ON)		*1
1	not used	—	—	—	*2
2	INPUT A	Changes the input to INPUT A	Not change	Change	*4
3	INPUT B	Changes the input to INPUT B	Not change	Change	*4
4	not used	—	—	—	*2
5	not used	—	—	—	*2
6	not used	—	—	—	*2
7	not used	—	—	—	*2
8	not used	—	—	—	*2
9	not used	—	—	—	*2
10	ASPECT	Changes the screen ratio to 16:9	4:3	16:9	
11	UNDER SCAN	Makes the screen under-scan	Over-scan	Under-scan	
12	not used	—	—	—	*2
13	not used	—	—	—	*2
14	REMOTE ENABLE	Makes the external control from the REMOTE terminal valid or invalid	Invalid	Valid	*3
15	GND	Used as a ground terminal	—	—	

*1 : OFF stands for disconnection, and ON stands for short-circuit.

*2 : Do not connect.

*3 : Setting REMOTE ENABLE to ON enables remote control from the REMOTE terminal.

*4 : INPUT REMOTE setting in the set-up menu (REMOTE SYSTEM shown only when MAKE is selected.)

For the D-sub pins 2 and 3, 2-pin or 1-pin control can be set with INPUT REMOTE in the set-up menu.

• 2-pin control: Only the specified signal line in INPUT-A or B is short-circuited.

• 1-pin control: Switches between INPUT-A and INPUT-B only with the 2nd pin of the D-sub connector.

OFF : INPUT A
ON : INPUT B

NOTES :

• When both INPUT A and INPUT B are selected (short-circuited) under the MAKE system, INPUT A has priority.

• To control INPUT A and INPUT B in MAKE mode, we recommend using the interlock switch, which turns off a switch when another switch is turned on.

To control INPUT A and INPUT B in TRG. mode, we recommend using the return switch, which stays ON while pressed.

SPECIFICATIONS

MODEL		TM-H1900G	TM-H1700G
Type		Color video monitor	
Color system		PAL, NTSC (3.58)	
Picture tube		49 cm (19") measured diagonally, in-line gun, trio-dot type (phosphor dot-trio pitch 0.27 mm)	44 cm (17") measured diagonally, in-line gun, trio-dot type (phosphor dot-trio pitch 0.27 mm)
Effective screen size		Width 365.8 mm (14-5/8") Height 274.3 mm (10-7/8") Diagonal 457.2 mm (18")	Width 327.5 mm (12-7/8") Height 246.2 mm (9-5/8") Diagonal 407.1 mm (16-1/32")
Scanning frequency		H: 15.734 kHz (NTSC), 15.625 kHz (PAL) V: 59.94 Hz (NTSC) 50 Hz (PAL)	
Horizontal resolution		750 TV lines or more (Y/C input mode)	
Input terminals	VIDEO A	Composite video: 1 line, BNC connector x 2, 1 V(p-p), 75 Ω, negative sync (bridge connection possible, auto termination)	
	VIDEO B	Composite video: 1 line, BNC connector x 2, 1 V(p-p), 75 Ω, negative sync (bridge connection possible, auto termination)	
		Y/C-separated: 1 line, mini-DIN 4-pin connector x 2 Y: 1.0 V (p-p), 75 Ω C (BURST): 0.286 V (p-p), 75 Ω (NTSC) 0.3 V (p-p), 75 Ω (PAL) (bridge connection possible, auto termination)	
	AUDIO A	1 line (monaural), RCA pin x 2, 0.5 V(rms), high-impedance (bridge connection possible)	
	AUDIO B	1 line (monaural), RCA pin x 2, 0.5 V(rms), high-impedance (bridge connection possible)	
	REMOTE	Point-of-contact connection, 1 line D-sub connector (15-pin, 3-line)	
Audio power output		1 W	
Built-in speaker		8 cm round x 1, impedance of 8 Ω	
Environmental conditions		Operation temperature: 0°C – 40°C (32°F – 104°F) Operation humidity: 20 % – 80 % (non-condensing)	
Power requirements		120 V/230 V AC, 50 Hz/ 60 Hz	
Power consumption		1.2 A (120 V AC)/0.8 A (230 V AC)	1.1 A (120 V AC)/0.7 A (230 V AC)
Dimensions		Width 440 mm (17-3/8") Height 375 mm (14-7/8") Depth 496 mm (19-5/8")	Width 395 mm (15-5/8") Height 334 mm (13-1/4") Depth 418 mm (16-1/2")
Weight		25.1 kg (55.2 lbs)	19.6 kg (43.2 lbs)
Accessory		AC power cord	

* Illustrations used in this manual are for explanatory purposes only. The appearance of the actual product may differ slightly.

* Dimensions and weight are approximate.

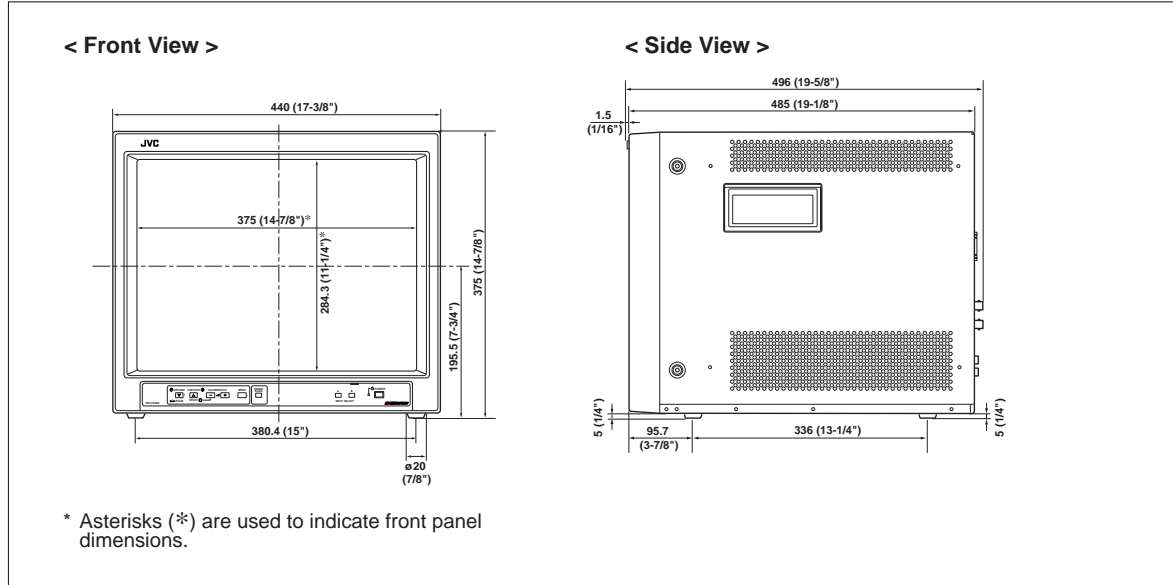
* E. & O. E. Design and specifications subject to change without notice.

SPECIFICATIONS (cont'd)

■ Dimensions

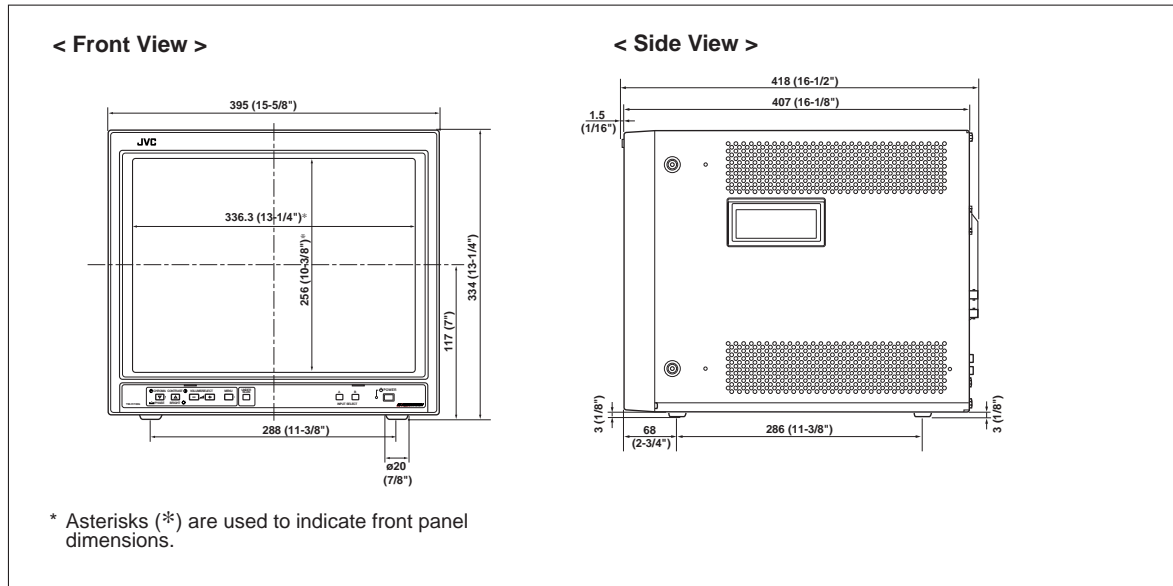
[TM-H1900G]

Unit : mm (inch)

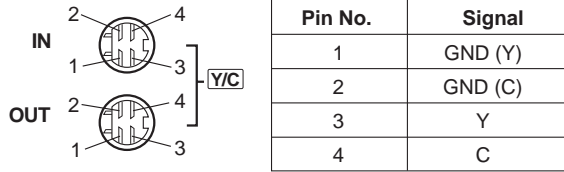


[TM-H1700G]

Unit : mm (inch)




■ Y/C (Mini DIN 4 pin) terminal specification



TM-H1900CG/TM-H1700CG COLOR VIDEO MONITOR

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