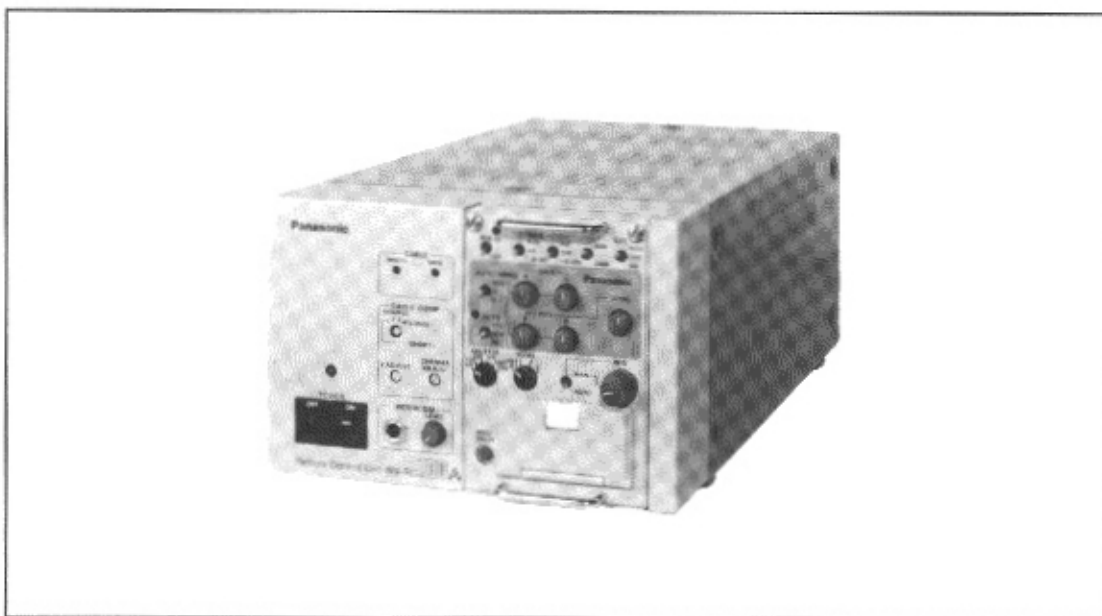


Operating Instructions

Remote Control Unit
WV-RC700A




Panasonic®

Before attempting to connect or operate this product, please read these instructions completely.


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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.



SA 1965

The lightning flash with 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.



SA 1966

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.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For U.S.A.

Warning:

This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

For CANADA

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

The serial number of this product may be found on the bottom of the unit.
You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. _____

Serial No. _____

PREFACE

A Remote Control Unit (RCU) WV-RC700A is used to remotely control the Color Camera WV-F700 or WV-F500 series for studio operation.

Features and functions include white balance setting, iris control, R/B gain control total pedestal control, color bar/camera selection switch, horizontal and subcarrier phase adjustment for gen-lock and intercom level control.

FEATURES

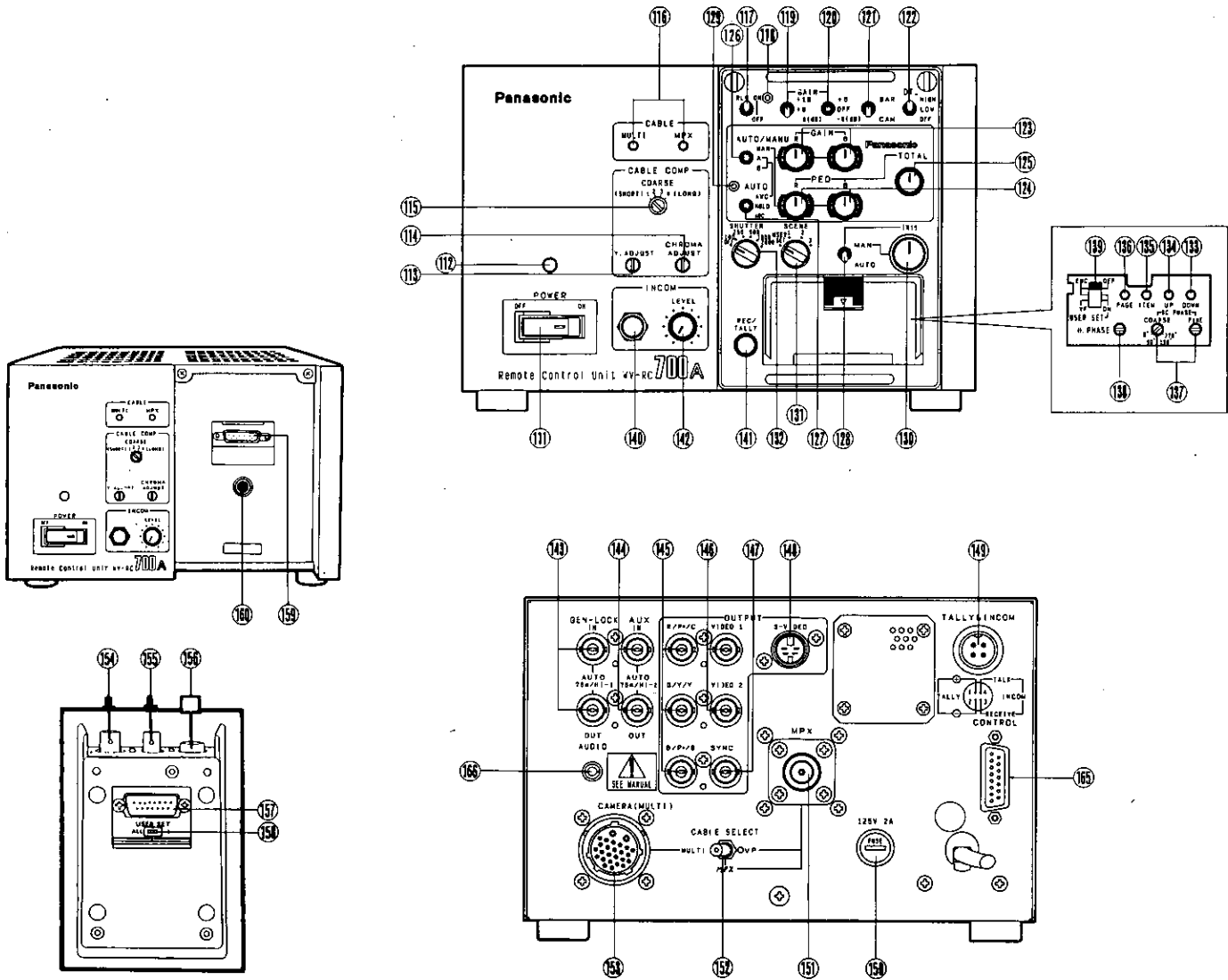
1. With cable length compensation switch and fine control, the video signal, gen-lock and the camera control from the RCU are available by using a coaxial cable.
When using a coaxial cable (Belden 8281), the maximum cable length is 1000 ft (300 m).
When using a coaxial cable (Belden 9259), the maximum cable length is 700 ft (200 m).
2. By separating the Remote Control Box parts from this unit, ENG/EFP operation can be controlled.
3. With cable length compensation switch and fine control, 26-pin studio cable between the camera and RCU can be extended to maximum 1000 ft (300 m).

4. Color adjustment can be made by the R and B gain controls on the RCU.
5. With lens iris control, the auto iris level of zoom lens on the camera can be manually controlled from the RCU.
6. Horizontal and subcarrier phase controls on the RCU can adjust for matching the phase of the gen-lock signal for the system use.
7. 19" EIA rack mountable with the optional Rack Mount Frame WV-Q70.
8. With the Camera Adaptor WV-AD700AS and the Power Separator WV-PS700, Video Power (VP) Multiplex operation using a single coaxial cable is available.
9. The Input Connectors for the lens control and pan/tilt control are provided.

PRECAUTIONS

- Do not attempt to disassemble the unit.
There are no user-serviceable parts inside.
Do refer any servicing to qualified service personnel.
- Do not abuse the unit. Avoid striking, shading etc.
- Do not use strong or abrasive detergents when cleaning the unit. Do use dry cloth to clean the unit when dirty. In case the dirt is hard to remove, use mild detergent and wipe gently.
- Do not expose the unit to rain or moisture. Do take immediate action if ever the unit do become wet.
Turn power off and refer servicing to qualified service personnel. Moisture can damage the unit and also create the danger of electronic shock.
- Use the unit under the conditions where temperature is within 23°F - 113°F (-5°C - +45°C) and humidity is less than 90%.

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



Note: The numbering of the each item is same as the Operating Instructions of WV-F700 or WV-F500 series.

111. Power Switch (POWER, ON/OFF)

This switch turns on and off the power of the Remote Control Unit (RCU).

112. Power Indicator

This switch lights red whenever the unit is operating.

113. Luminance Gain Fine Control (Y ADJUST)

This control allows for fine adjustment of the luminance signal level for matching the levels of all cameras in a system. Adjust this control only after having set the Cable Length Compensation Switch (115) to the correct position.

114. Chroma Gain Fine Control (CHROMA ADJUST)

This control allows for fine adjustment of the chroma signal level for matching the chroma levels of all the cameras in a system. Adjust this control only after having set the Cable Length Compensation Switch (115) to the correct position.

115. Cable Length Compensation Switch (CABLE/COMP)

This switch is used to compensate for extensive cable lengths used with the 26-pin multi-cable between the camera and Remote Control Unit (RCU).

1. Use for cable length of less than 225 ft (75m)
2. Use for cable length of 225-450 ft (75-150m)
3. Use for cable length of 450-690 ft (150-230m)
4. Use for cable length of 690-900 ft (230-300)

This switch is also used to compensate for extensive cable lengths used with the coaxial cable (5C-2V) between the camera and Remote Control Unit (RCU).

1. Use for cable length of less than 450 ft (150m)
2. Use for cable length of 450-1000ft (150-300m)
3. Not available
4. Not available

116. Cable Indicator (CABLE, MULTI/MPX)

This indicator shows the setting position of the Cable Selection Switch (152) on the rear panel.

117. Remote Control Box (RCB) Operation Switch (RCB)

When connecting the Remote Control Box to the camera without using the Remote Control Unit, set this switch to ON position. When the RCB is installed in the RCU this switch is inoperative.

118. Remote Control Box (RCB) Indicator (ON/OFF)

This indicator lights while control data is communicated between the camera and Remote Control Unit (RCU) or Remote Control Box (RCB).

119. High Gain Selection Switch (0 dB/+9 dB/+18 dB)

Normally set this switch to the 0 dB position. Positions +9 dB and +18 dB increase the video output amplitude for dark scenes and are equivalent to opening the lens iris 1.5 or 3 F-steps, respectively.

120. 6dB Gain Selection Switch (+6 dB/OFF/-6 dB)

Normally set this switch to OFF position. By the combination of this switch with the High Gain Selection Switch (119), fine adjustment of the gain level is available.

121. Color Bar/Camera Selection Switch (BAR/CAM)

In a system configuration, this switch is used for signal selection between camera mode and color bar mode.

BAR:

A color bar signal is provided from the Video Output Connector (146) on the Remote Control Unit (RCU).

CAM:

The actual picture, as picked up through the lens, is displayed.

122. Detail Level Selection Switch (DTL, LEVEL-HIGH/LOW/OFF)

The detail/aperture level can be selected by this switch in three steps. Set this switch to the desired position while observing the sharpness of the picture.

123. Red and Blue Gain Controls (R GAIN/B GAIN)

These controls are used to manually adjust the white balance.

These controls only work when the White/Black Balance Selection Switch (126) is set to the MANU position.

Turn the controls clockwise to increase the red and blue signal levels, and counterclockwise to decrease these levels.

Note:

As these controls employ Digital Processing, the Red and Blue signal levels will be changed in discrete steps.

124. Red and Blue Pedestal Level Controls (PED, R/B)

The black balance can be set manually by these controls when the White/Black Balance Selection Switch (126) is set to the MANU position. Turn these controls clockwise to increase the red and blue pedestal levels, and counterclockwise to decrease the levels.

Note:

As these controls employ the Digital Processing, these levels will be changed in the steps.

125. Total Pedestal Level Control (TOTAL PEDESTAL)

This control can adjust the pedestal level of the video signal (luminance) for matching the black level between two or more cameras in a system. Turn this control clockwise to increase the pedestal level, and counterclockwise to decrease the level.

Note:

As this control employs the Digital Processing, this level may be changed in the step.

126. White/Black Balance Selection Switch (AUTO/MANU,MAN/A/B)

This switch is used to select the white balance and black balance modes as follows:

MAN:

The white balance and black balance can be adjusted by the Red and Blue Gain Controls (123) and the Red and Blue Pedestal Level Controls (124).

A: The White Balance can be set automatically by pressing the Auto White/Auto Black Set Switch (127) upwards. The setting is stored in memory A.

B: Similar to A, but the setting is stored in memory B.

Note:

Two white balance setting, one each for different lighting conditions such as indoor and outdoor, may be stored in the two memories, A and B.

127. Auto White/Auto Black Set Switch (AWC/HOLD/ABC)

This switch sets the white balance and black balance automatically as follows:

AWC:

This position is used for setting the white balance when the White/Black Balance Selection Switch (126) is set to the A or B position of the White/Black Balance Selection Switch. White balance adjustment is required when "AWC A NG" or "AWC B NG" is displayed in the viewfinder or when the Auto Warning Indicator (129) on lights.

HOLD:

In this position, the white and black balances set at the AWC or ABC position can be held fixed, if so desired, for at least one year.

ABC:

This position is used for setting the black balance when the White/Black Balance Selection Switch (126) is set to the A or B position. Black balance adjustment is required when "ABC NG" is displayed in the viewfinder or when the Auto Warning Indicator (129) on the Remote Control Unit (RCU) lights.

Note:

Since the black balance adjustment is always automatically performed the picture will flash in the viewfinder and on the monitor screen while the black balance is being set. This flashing indicates that the adjustment is currently being performed and will cease once the adjustment is completed.

128. Lens Iris Selection Switch (IRIS, MAN/AUTO)

This switch is used to set the lens iris of the auto iris servo control zoom lens as follows.

Auto:

The iris level of the lens is controlled automatically.

Note:

Be sure to set the Iris Control Selection Switch on the zoom lens to the AUTO position.

MAN:

The iris level of the lens is controlled to the desired level by using the Lens Iris Control (130).

129. Auto Warning Indicator (AUTO)

This indicator blinks while the white balance or black balance is being automatically set. It goes out once the white and black balances have been correctly set. This indicator lights when the white or black balance is set improperly. In this case, carry out the automatic setting procedure for white and/or black balance.

130. Lens Iris Control (IRIS)

The iris level of the zoom lens can be manually controlled by turning this control when the Lens Iris Selection Switch (128) is set to the MAN position.

131. Scene Selection Switch (SCENE)

This switch is used to select the most suitable camera conditions, depending on scene conditions, to obtain the best picture possible.

132. Electronic Shutter Speed Selection Switch (OFF/100/250/500/1000/2000)

This switch is operative only when a camera featuring the electronic shutter is connected with the Remote Control Unit (RCU).

When fast-moving objects are shot at the slow shutter speeds typically found in conventional cameras they will appear blurred. The WV-F700 camera, however, features an electronic shutter function from which the following speeds can be selected: 1/100, 1/250, 1/500, 1/1000 or 1/2000 of a second. As a result, blur-free recording of high-speed action, such as car racing, golf swings, gymnastics, birds in flight is possible.

The selection of shutter speed is made by pressing this switch.

OFF:

Set this switch to this position when recording normally with standard shutter speeds.

1/100, 1/250, 1/500, 1/1000, 1/2000:

Choose the suitable shutter speed from these.

133. Down Switch (DOWN)

This switch is used to decrease the set value in the item pointed out by the cursor.

134. Up Switch (UP)

This switch is used to increase the set value in the desired item pointed out by the cursor.

135. Item Switch (ITEM)

This switch is used to choose the item in the set-up menus.

136. Page Switch (PAGE)

This switch is used to choose the desired set-up menu from the four menus.

137. Subcarrier Phase Coarse and Fine Controls (SC PHASE COARSE/FINE)

These controls allow for adjustment of the camera signal subcarrier phase from 0° to 360°, to match the phase with that of the burst signal at the Gen-lock Input Connector (143) in a system configuration.

The COARSE control adjusts the subcarrier phase from 0° to 360° in 90° steps, while the FINE control allows for continuous fine adjustment over a range of 90°.

138. Horizontal Phase Control for Gen-lock (H PHASE)

The horizontal phase of the camera signal can be adjusted to match the horizontal phase of the signal at the Gen-lock Input Connector (143).

139. ENC/VF Selection Switch (ENC/VF, OFF/ON)

This switch selects Encoder output or EVF (black and white) output from the Video Output Connector and whether the User Set Function is available as follows:

1. Switch set to position #1:
Encoder is output from the Video Output Connector on the RCB and the User Set function is not available.
2. Switch set to position #2:
Encoder is output from the Video Output Connector on the RCB and the User Set function is available.
3. Switch set to position #3:
EVF (black and white) signal is output from the Video Output Connector on the RCB, User Set function is available and the User Set menu is displayed on the monitor.

140. Intercom Jack (INTERCOM)

This jack is used for communications between the camera operator and Remote Control Unit (RCU) operator in a system configuration with a Special Effects Generator.

141. Tally Indicator (REC/TALLY)

When the Remote Control Unit (RCU) is used in conjunction with a Special Effects Generator, the Tally Indicator inside the viewfinder as well as this indicator on the Remote Control Unit (RCU) will light to indicate that recording is in progress.

Note:

When using the Remote Control Box (RCB) in the Remote Control Unit (RCU), the recording start/stop function is not available.

142. Intercom Level Control (INTERCOM, LEVEL)

Use this control to adjust the volume level in the headset connected to the Intercom Jack (140).

143. Gen-lock Input Connectors (BNC)

(GEN-LOCK IN AUTO 75Ω/Hi-Z OUT)

These connectors receive the gen-lock signal (black burst or composite) from the Special Effects Generator for system reference.

When connecting a coaxial cable with BNC connector to this connector, the high impedance video loop is automatically selected. At all other times, these connectors are automatically terminated with 75 ohms.

Caution:

As this connector is in parallel connection with the Remote Control Box Gen-lock Input Connector (155), do not input gen-lock signals to both of these connectors simultaneously.

144. Auxiliary Input Connectors

(AUX IN-AUTO/75Ω HI-Z OUT)

These connectors receive the lineview signal from a Special Effects Generator. Two connectors are provided for bridging or looping application.

When connecting a coaxial cable with BNC connector to this connector, this connector is automatically terminated with 75 ohms.

145. Red, Green and Blue Output Connectors (OUTPUT-R/PR/C, G/Y/Y, B/PB/B)

Signals supplied from these connectors are selected by the RCU/VTR Signal Selection Switch on the Camera Adaptor.

Note:

The RCU/VTR Signal Selection Switch on the Camera Adaptor has been set to the ENC position at the factory.

146. Video Output Connectors (OUTPUT-VIDEO 1,VIDEO,2)

These connectors supply a composite video signal to a Special Effects Generator, a Video Monitor or a VTR.

Note:

This connector is in parallel connection with the Monitor Output Connector (154) on the Remote Control Box (RCB).

147. Sync Output Connector (SYNC OUTPUT)

This Connector supplies a negative 4Vp-p/75 sync signal to the Sync Input of an RGB Color Video Monitor for synchronization.

148. S-Video Output Connector (S-VIDEO)

This connector outputs the Y/C signal when the RCU/VTR Signal Selection Switch on the camera adaptor is set to the Y/C/B Position.

149. Tally and Intercom Input Connector (TALLY & INTERCOM)

Connect a 4-pin cable between this connector and the Tally and Intercom output of the Special Effects Generator.

150. Fuse (125V 2A)

151. Multiplex Connector (MPX) (N Connector)

This connector is connected to the Multiplex Connector of the camera with coaxial cable (5C-2V or equal).

Notes:

- When using this connector, set the Cable Selection Switch (152) to MPX position.
- When using this unit with the VP Multiplex system, be sure to set the Cable Selection Switch (152) to the VP position.
- Approx. 100V DC is output while operation.

152. Cable Selection Switch

(CABLE SELECT, MULTI/MPX/VP)

Set this switch to the MULTI or MPX position according to the control cable used.

MULTI:

Select this position when the 26-pin cable (Multi cable) is used to control the camera.

MPX:

Select this position when the coaxial cable (5C-2V) is used to control the camera.

VP:

Select this position when the coaxial cable (5C-2V) is used to control and power the camera in the VP Multiplex system.

Caution:

Do not use the multi cable and the coaxial cable together.

153. Multi-cable Connector (CAMERA)

This connector is connected with the VTR/RCU Connector by using the multi-cable (26-pin).

Note:

Be sure to set the Cable Selection Switch (152) to the MULTI position.

154. Monitor Output Connector of the Remote Control Box (RCB)

As this connector is in parallel connection with the VIDEO 2 OUTPUT Connector (146), do not output the signal simultaneously from both connectors.

155. Gen-lock Input Connector of Remote Control Box

This connector is used to input the gen-lock signal to the Remote Control Box when using the Remote Control Box extended from the Remote Control Unit.

156. Remote Control Unit Extension Connector

This connector is used to extend the Remote Control Box from the Remote Control Unit or from the camera by using the optional RCB Cable (WV-CA10B25/WV-CA10B50).

The maximum cable length for the extension is 300 ft (100m).

Refer to the following table.

Cable length	(ft)	6	75	150	300
	(m)	2	25	50	100
Decrement		10%	15%	20%	30%

Note:

As the video level is changed by using various cable lengths, under certain conditions it may be out of the specification for the WV-F700 or WV-F500 series.

157. Remote Control Unit Connector

This connector is used for directly connecting with the Remote Control Box Connector (159) on the Remote Control Unit.

Note:

When the Control Connector (165) is used, be sure to use this connector if the Remote Control Box is extended.

158. User Set Switch (USER SET)

By setting this switch when the Scene Selection Switch (131) is set to the USER SET position, the page selection of the set up menus is available as follows.

All:

All the pages (page1-page4) in the set up menu are displayed by setting this switch to this position.

1: Page 1 and 2 are displayed by setting this switch to this position.

2: Only Page 3 is displayed by setting this switch to this position.

Refer to "THE USER SETTING OPERATION" on page Operating Instructions of WV-F700 or WV-F500 series for the details.

159. Remote Control Box Connector

This connector is connected directly with the Remote Control Unit Connector (157) on the Remote Control Box.

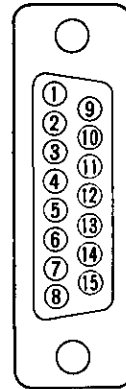
160. Remote Control Box Extension Connector

This is connected to the Remote Control Unit Extension Connector (156) on the Remote Control Box by using the optional cable.

Refer to item 156 for more details.

165. Control Connector (CONTROL)

This connector is connected with the control connector of the pan/tilt unit or lens control by using the multi-cable (15-pin).



1	LEFT
2	RIGHT
3	UP
4	DOWN
5	—
6	FOCUS
7	—
8	ZOOM
9	DEFROSTER
10	WIPER
11	—
12	+5V
13	+V (+7.5V)
14	-V (+2.5V)
15	GND

Pan/Tilt or Housing Control Voltage

	Operation	Stop
LEFT	2.5V	0
RIGHT	2.5V	0
UP	2.5V	0
DOWN	2.5V	0
DEFROSTER	2.5V	0
WIPER	2.5V	0

Lens Control Voltage

	Speed	
	Low	High
NEAR	4.0V	2.5V
FAR	6.0V	7.5V
WIDE	4.0V	2.5V
TELE	6.0V	7.5V

Note:

The impedance for the control voltage should be 2 kohms or less.

166. Audio Output Jack (AUDIO OUT)

By setting the Audio Level Selection Switch of the Camera Adaptor WV-AD700AS to the -20 dB position, the audio output is available.

Note:

In case of Multiplex or VP Multiplex operation, set the Audio Level Selection Switch of the Camera Adaptor WV-AD700AS to the -20 dB position, the Switch 1 on the Audio Board in side the Camera Adaptor WV-AD700AS and Switch 2 on the MOD board inside this unit to the AUDIO position for the Audio Output function to be activated.

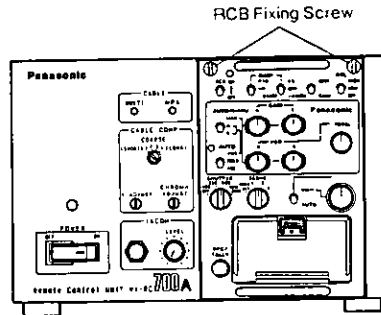
CONNECTION

CAUTION:

Keep the Power Switches of all units in the OFF position during connections.

A. Direct Connection

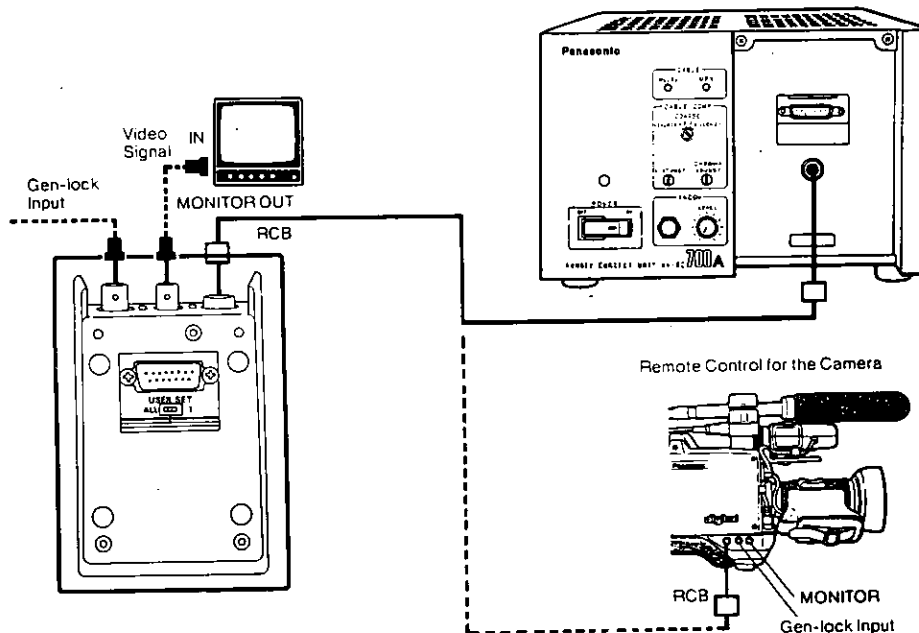
Connect the Remote Control Unit Connector (157) to the Remote Control Box Connector. Fix the Remote Control Box by using two RCB Fixing Screws.



Note: If the WV-CB700 is used with the WV-RC700A, the functions for the WV-RC700A is not available.

B. Connection with the Optional RCB Cable

Connect the optional RCB Cable between the Remote Control Box Extension Connector (160) and the Remote Control Unit Extension Connector (156).



C. Connection with the Camera

C-1 Connection with the camera using the 26-pin multi-cable

Connect the 26-pin studio cable between the camera and the Remote Control Unit (RCU).

Set the Cable Selection Switch (152) to the MULTI position and the Cable Selection Switch on the Camera Adaptor to VTR/MULTI position.

C-2 Connection with the camera using the coaxial cable

Connect the coaxial cable between the Multiplex Connector (151) and Multiplex Signal Input Connector.

Set the Cable Selection Switch (152) to the MPX position and the Cable Selection Switch on the Camera Adaptor to MPX position.

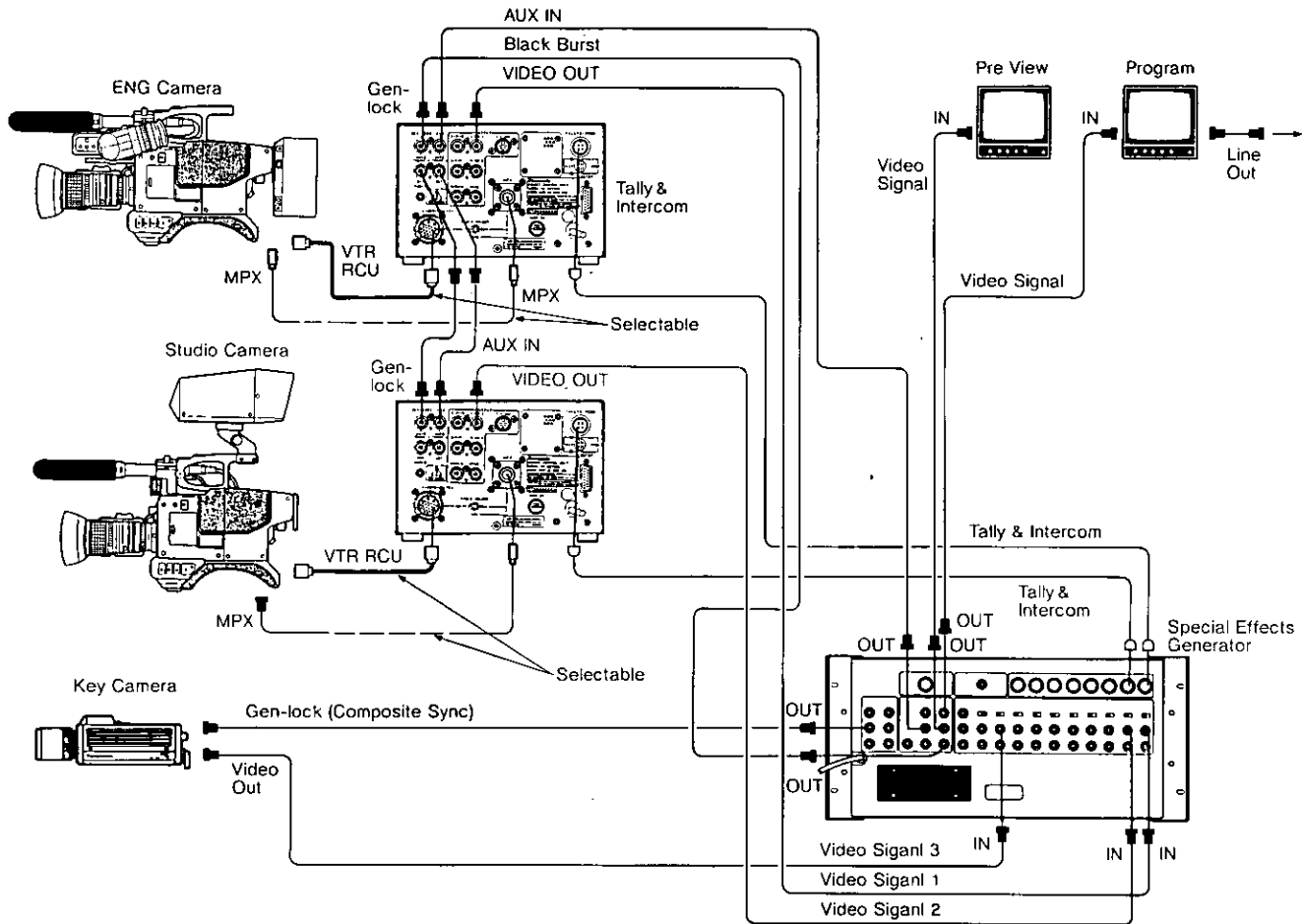
D. For Gen-lock

Connect the coaxial cable for the gen-lock signal between the black burst output on the production system and Gen-lock Input Connectors (143) on the RCU. (The signal may be bridged or looped through to another RCU.)

Connect the coaxial cable for the lineview signal between the effect output connector on the production system and the Auxiliary Input Connector (144) on the RCU. (The signal may be bridged or looped through to another RCU.)

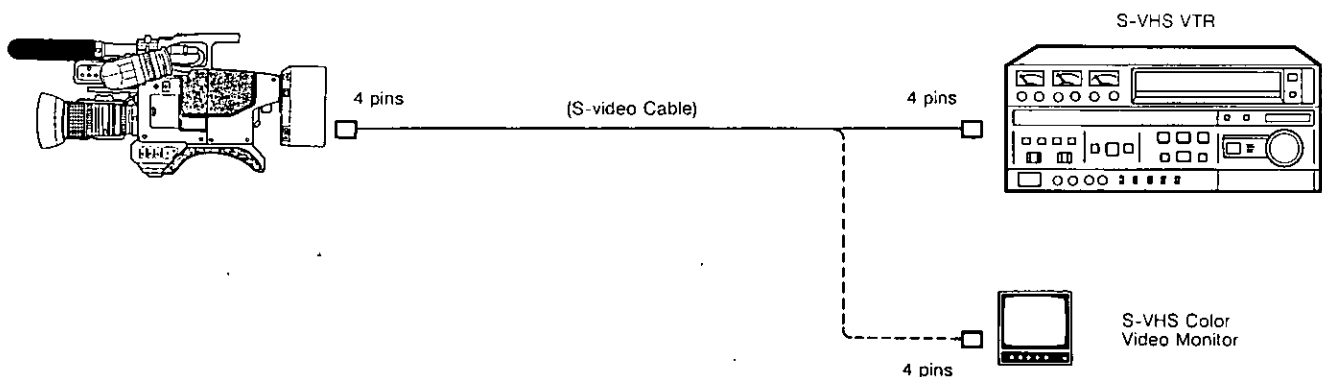
Notes:

1. The Tally Light and intercom between the camera, RCU and Special Effects Generator will function only when the 4-pin cable for the Tally Light and Special Effects Generator.
2. The 26-pin studio cable can be extended up to a maximum of approximately 1000 ft (300m). When extending the cable, be sure to set the Cable Length Compensation Switch (115) to the position matching the extension length.
3. The Subcarrier Phase Coarse and Fine Controls (137) and the Horizontal Phase Control (138) on the RCU should be set to match other cameras in the system. Refer to page on the Operating Instructions of WV-F700 or WV-F500 series for details.
4. Be sure to set the Cable Selection Switches (152) to MULTI position.

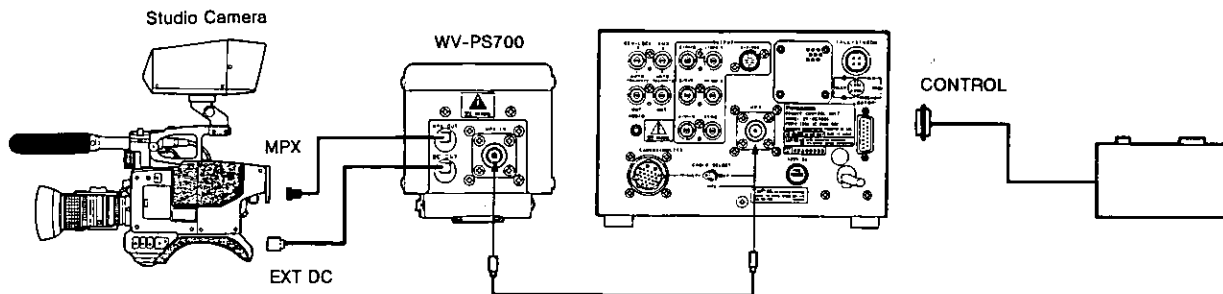


Notes:

1. When using the MPX, INCOM, AUX and R/G/B and S-VIDEO outputs are not functioned.
2. When Color Camera WV-F700 or WV-F500 series is connected to a desk-top type S-VHS VTR such as AG-7500 or directly to the video monitor for S-VHS format, the S-VHS cable (S-video cable) is required.



E. For VP Multiplex System

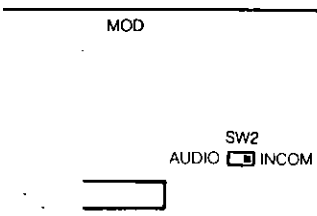


- Connect the Multiplex Output Cable on the WV-PS700 to the Multiplex Signal Connector on the WV-AD700AS.
- Connect the Power Cable on the optional Power Separator WV-PS700 to the External DC Input Connector on the WV-AD700AS.
- Connect the coaxial cable between the Multiplex Input Connector on the Power Separator WV-PS700 and the Multiplex Connector (151) on this unit.
- To control the Zoom or Focus function of lens, connect the Control Cable on the lens having the Focus or Zoom function to the Lens Connector on WV-AD700AS.

And then connect the multicable between the WV-RC700A and lens control unit.

Notes:

1. The optional Power Separator WV-PS700 and the Camera Adaptor WV-AD700AS are required to supply the power to the camera from this unit.
2. The optional studio cable (26-pin) cannot be used in the VP Multiplex system simultaneously.
3. In this system, R/G/B, Y/C, Y/PR/PB and Aux cannot be supplied.
4. Be sure to set the Cable Selection Switch on the Camera Adaptor WV-AD700AS to the MPX position and the Cable Selection Switch (152) on this unit to the VP position.
5. After turning on the power of this unit and camera head, it takes approximately 8 seconds to control the camera.
6. When the Camera Adaptor WV-AD700S is used in the above system, the following items are not available.
 - a. Bidirectional Inter Communication
 - b. Audio Output
 - c. Zoom, or Focus Control
 - d. Pan/Tilt Control
7. Pan/Tilt Control Signal input to the Control Connector (165) on this unit is output from Control Connector on WV-AD700AS.
8. For the Audio function, set the Switch 2 on the MOD board inside this unit.



Refer to the Operating Instructions of the Color Camera WV-F700 or WV-F500 series for the operating procedure.

RACK MOUNT INFORMATION

MAJOR COMPONENT

161. Rack-mounting Spacer

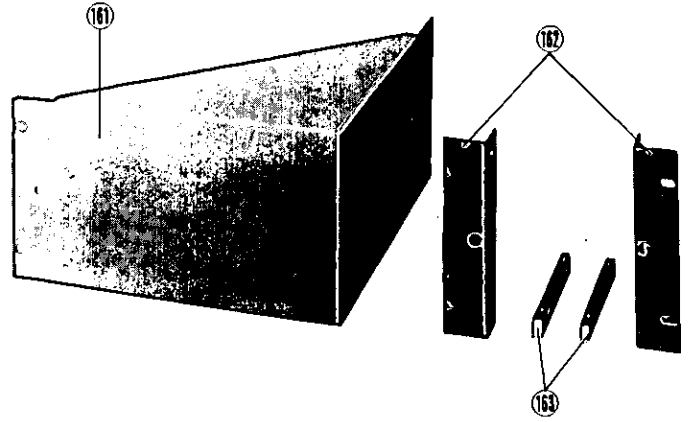
This is used to mount the single Remote Control Unit on the rack.

162. Rack Mounting Angles

Two Rack-mounting Angles should be used to mount the double Remote Control Units on the rack.

163. RCU Jointing Bars

These bars are used to joint double Remote Control Units.



INSTALLATION

1. Mounting of the single Remote Control Unit

- 1-1. Fix one Rack-mounting Angle (161) to the either side by using two screws (M4 × 10, provided).
- 1-2. Attach the Rack-mounting Spacer (162) to the Remote Control Unit by using four screws (Two M5 × 10 and two M4 × 10, provided).
- 1-3. Mount the Remote Control Unit onto the EIA 19" rack by using four rack mounting screws (not provided) as shown in Fig. 1.

2. Mounting of double Remote Control Units.

- 2-1. Fix two RCU Jointing Bars (163) on the side of Remote Control Units by using four screws (M5 × 16, provided) as shown in Fig.2.

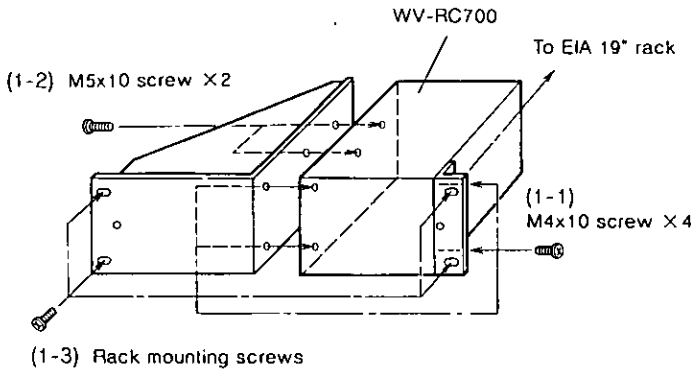


Fig. 1

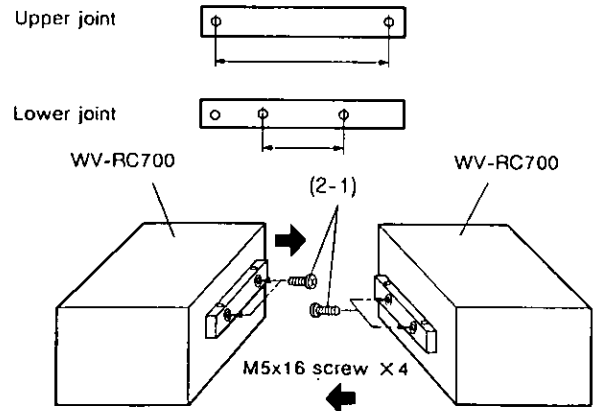


Fig. 2

- 2-2. Attach two Remote Control Units by using four screws (M4 × 25, provided) as shown Fig.3.
- 2-3. Fix two Rack Mounting Angles(161) on both side of the jointed Remote Control Units.
- 2-4. Mount two Remote Control Units onto the EIA 19" rack by using four rack mounting screws (not provided).

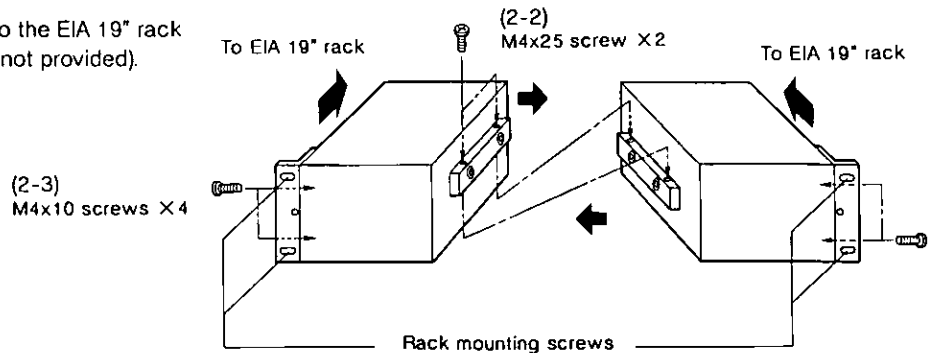


Fig. 3

SPECIFICATIONS

Power Source :	120 V AC, 60 Hz, 86 watts
Video Output :	1.0 Vp-p NTSC composite/75 ohms × 2 (BNC connectors)
Gen-lock Input :	1.0 Vp-p NTSC composite or black burst signal/75 ohms or Hi-z looping through × 1 (BNC connectors), auto termination
AUX (Line View) Input :	1.0 Vp-p NTSC composite/75 ohms or Hi-z looping through × 1 (BNC connectors), auto termination
R/G/B, Y/PR/PB, Y/C/B	
Switching Output :	75 ohms × each 1 (BNC connectors)
R/G/B :	0.714 Vp-p
Y/C/B :	Y: 0.714 Vp-p C: 0.286 Vp-p
Y/RB/PB :	Y: 1.0 Vp-p PR, PB: 0.486 Vp-p
Sync Output :	4.0 Vp-p/75 ohms × 1 (BNC)
S-Video Output :	Y: 0.714 Vp-p/75 ohms × 1 (S connector) C: 0.286 Vp-p 75 ohms × 1 (S connector)
MPX Input/Output :	Composite Video, Gen-lock Video, Remote Control Signal, 85V-110V DC, Intercom/Audio/75 ohms
Audio Output :	-20 dBm (Selectable Inter Communication or Audio)
Intercom Jack :	M-6
Audio Jack :	RCA Pin Jack
Maximum Cable Length :	1000 ft (300 m) with studio cable 1000 ft (300 m) with cable compesator (Belden 8281)
Switches :	Cable Selection, Cable Length Compensation, High Gain Selection, 6 dB Gain Selection, Color/Bar Camera Selection, Detail Level Selection, White/Black Balance Selection, Auto White/Auto Black Set, Lens Iris Selection, Scene Selection, Electronic Shutter Speed Selection, ENC/VF Selection, Subcarrier Phase Coase, RCB Operation, Up, Down, Item, Page, User Set
Controls :	Luminance Gain Fine, Chroma Gain Fine, Red and Blue Gain, Red and Blue Pedestal Level, Total Pedestal Level, Lens Iris, Fine, Horizontal Phase, Intercom Level
Ambient Operating Temperature :	23°F - 113°F (-5°C - +45°C)
Ambient Operating Humidity :	Less than 90 %
Dimensions :	8-1/4"(W) × 5-3/16"(H) × 14-9/16"(D) 207 (W) × 132 (H) × 370 (D) mm
Weights :	15.6 lbs (7.1 kg)

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

ACCESSORIES

4-pin Connector (For Tally/Intercom)	1 pc.
N Connector	1 pc.

OPTIONAL ACCESSORIES

Color Camera	WV-F700, WV-F500 series
Studio Cable	WV-CA26U15/WV-CA26U30/ WV-CA26U100
RCU Rack Mount Frame	WV-Q70
RCB Cable	WV-CA10B25/WV-CA10B50
Cable Joint Adaptor	WV-CA26T26
26/32 Conversion Cable	WV-CA26AT32
32/26 Conversion Cable	WV-CA32T26

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