

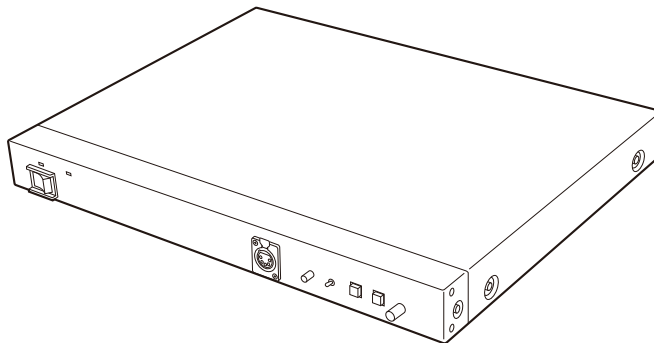
Panasonic[®]

Operating Instructions

Base Station

Model No. **AG-BS300P**

Model No. **AG-BS300E**



Before operating this product, please read the instructions carefully and save this manual for future use.

Read this first !

For AG-BS300P



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 TO SERVICING TO QUALIFIED SERVICE PERSONNEL.



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.



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 reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- To reduce the risk of fire or electric shock, keep this equipment away from all liquids. Use and store only in locations which are not exposed to the risk of dripping or splashing liquids, and do not place any liquid containers on top of the equipment.

WARNING:

This equipment must be grounded.
To ensure safe operation, the three-pin plug must be inserted only into a standard three-pin power outlet which is effectively grounded through normal household wiring.
Extension cords used with the equipment must have three cores and be correctly wired to provide connection to the ground. Wrongly wired extension cords are a major cause of fatalities.
The fact that the equipment operates satisfactorily does not imply that the power outlet is grounded or that the installation is completely safe. For your safety, if you are in any doubt about the effective grounding of the power outlet, please consult a qualified electrician.

WARNING:

Always keep accessories (screws) out of the reach of babies and small children.

CAUTION:

The mains plug of the power supply cord shall remain readily operable.
The AC receptacle (mains socket outlet) shall be installed near the equipment and shall be easily accessible. To completely disconnect this equipment from the AC mains, disconnect the mains plug from the AC receptacle.

CAUTION:

In order to maintain adequate ventilation, do not install or place this unit in a bookcase, built-in cabinet or any other confined space. To prevent risk of electric shock or fire hazard due to overheating, ensure that curtains and any other materials do not obstruct the ventilation.

CAUTION:

- Keep the temperature inside the rack between 5 °C to 40 °C (41 °F to 104 °F).
- Bolt the rack security to the floor so that it will not topple over when the unit is drawn out.

CAUTION:

To reduce the risk of fire or electric shock and annoying interference, use the recommended accessories only.

CAUTION:

Excessive sound pressure from earphones and headphones cause hearing loss.

CAUTION:

This apparatus can be operated at a voltage in the range of 100 - 240 V AC.
Voltages other than 120 V are not intended for U.S.A. and Canada.

CAUTION:

Operation at a voltage other than 120 V AC may require the use of a different AC plug. Please contact either a local or foreign Panasonic authorized service center for assistance in selecting an alternate AC plug.

 indicates safety information.

For AG-BS300P

IMPORTANT SAFETY INSTRUCTIONS

- 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 dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or the 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.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) 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.



FCC 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 instruction manual, may cause harmful interference 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.
- The user may find the booklet "Something About Interference" available from FCC local regional offices helpful.

Warning :

To assure continued FCC emission limit compliance, follow the attached installation instructions and the user must use only shielded interface cables when connecting to peripheral devices. Also any unauthorized changes or modifications to this equipment could Void the user's authority to operate this device.

For AG-BS300E

Caution for AC Mains Lead

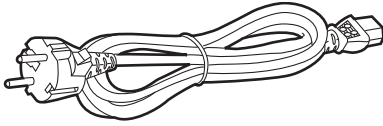
FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

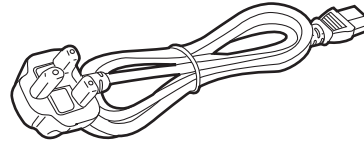
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC.

Not to be used in the U.K.



FOR U.K. ONLY



FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 13 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

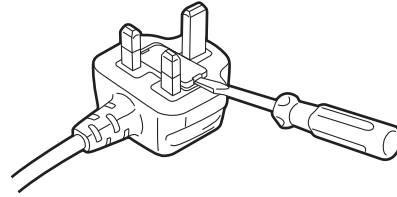
If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

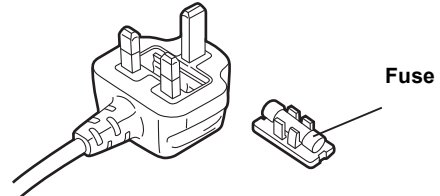
A replacement fuse cover can be purchased from your local Panasonic Dealer.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



 indicates safety information.

EEE Yönetmeliğine Uygundur.
EEE Complies with Directive of Turkey.

For AG-BS300E

WARNING:

THIS EQUIPMENT MUST BE EARTHED.

To ensure safe operation, the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through normal household wiring.

Extension cords used with the equipment must have three cores and be correctly wired to provide connection to the earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed or that the installation is completely safe. For your safety, if you are in any doubt about the effective earthing of the power point, please consult a qualified electrician.

WARNING:

- To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- To reduce the risk of fire or electric shock, keep this equipment away from all liquids. Use and store only in locations which are not exposed to the risk of dripping or splashing liquids, and do not place any liquid containers on top of the equipment.

WARNING:

Always keep accessories (screws) out of the reach of babies and small children.

CAUTION:

The mains plug of the power supply cord shall remain readily operable.

The AC receptacle (mains socket outlet) shall be installed near the equipment and shall be easily accessible. To completely disconnect this equipment from the AC mains, disconnect the mains plug from the AC receptacle.

CAUTION:

In order to maintain adequate ventilation, do not install or place this unit in a bookcase, built-in cabinet or any other confined space. To prevent risk of electric shock or fire hazard due to overheating, ensure that curtains and any other materials do not obstruct the ventilation.

CAUTION:

- Keep the temperature inside the rack between 5 °C to 40 °C.
- Bolt the rack security to the floor so that it will not topple over when the unit is drawn out.

CAUTION:

To reduce the risk of fire or electric shock and annoying interference, use the recommended accessories only.

CAUTION:

Excessive sound pressure from earphones and headphones cause hearing loss.

CAUTION:

Do not remove panel covers by unscrewing them. To reduce the risk of electric shock, do not remove the covers. No user serviceable parts inside. Refer servicing to qualified service personnel.

 indicates safety information.

EMC NOTICE FOR THE PURCHASER/USER OF THE APPARATUS

1. Applicable standards and operating environment (AG-BS300E)

The apparatus is compliant with:

- standards EN55103-1 and EN55103-2 1996.11, and
- electromagnetic environments E1, E2, E3, and E4.

2. Pre-requisite conditions to achieving compliance with the above standards

<1> Peripheral equipment to be connected to the apparatus and special connecting cables

- The purchaser/user is urged to use only equipment which has been recommended by us as peripheral equipment to be connected to the apparatus.
- The purchaser/user is urged to use only the connecting cables described below.

<2> For the connecting cables, use shielded cables which suit the intended purpose of the apparatus.

- Video signal connecting cables
Use double shielded coaxial cables, which are designed for 75-ohm type high-frequency applications, for SDI (Serial Digital Interface).
Coaxial cables, which are designed for 75-ohm type high-frequency applications, are recommended for analog video signals.
- Audio signal connecting cables
If your apparatus supports AES/EBU serial digital audio signals, use cables designed for AES/EBU.
Use shielded cables, which provide quality performance for high-frequency transmission applications, for analog audio signals.
- Other connecting cables (IEEE1394, USB)
Use shielded cables, which provide quality performance for high-frequency applications, as connecting cables.
- When connecting to the DVI signal terminal, use a cable with a ferrite core.
- If your apparatus is supplied with ferrite core(s), they must be attached on cable(s) following instructions in this manual.

3. Performance level

The performance level of the apparatus is equivalent to or better than the performance level required by these standards.

However, the apparatus may be adversely affected by interference if it is being used in an EMC environment, such as an area where strong electromagnetic fields are generated (by the presence of signal transmission towers, cellular phones, etc.). In order to minimize the adverse effects of the interference on the apparatus in cases like this, it is recommended that the following steps be taken with the apparatus being affected and with its operating environment:

1. Place the apparatus at a distance from the source of the interference.
2. Change the direction of the apparatus.
3. Change the connection method used for the apparatus.
4. Connect the apparatus to another power outlet where the power is not shared by any other appliances.

Table of Contents

Read this first !	2	About the Signals to Input to GENLOCK IN	
Supplied Accessories	7	Connector	16
Features	7	About the RET Signal	16
System Configuration Diagram	8	About the Rack Mount.....	17
Precautions When Connecting the System.....	9	Setting up the camera recorder.....	17
Camera Extension System and		About the Power Supply Cable	18
Camera Recorder Configuration Example.....	10	Menu Display.....	19
Connection with the AG-HPX300/301/302/304	10	List of Menus.....	20
Connection with camera recorders other than		Connector Signals	22
AG-HPX300/301/302/304 or AG-HPX500/502	11	Specifications	23
Connection with the AG-HPX500/502	12		
Part Names and Functions.....	13		
Front Panel.....	13		
Rear Panel	14		

Supplied Accessories

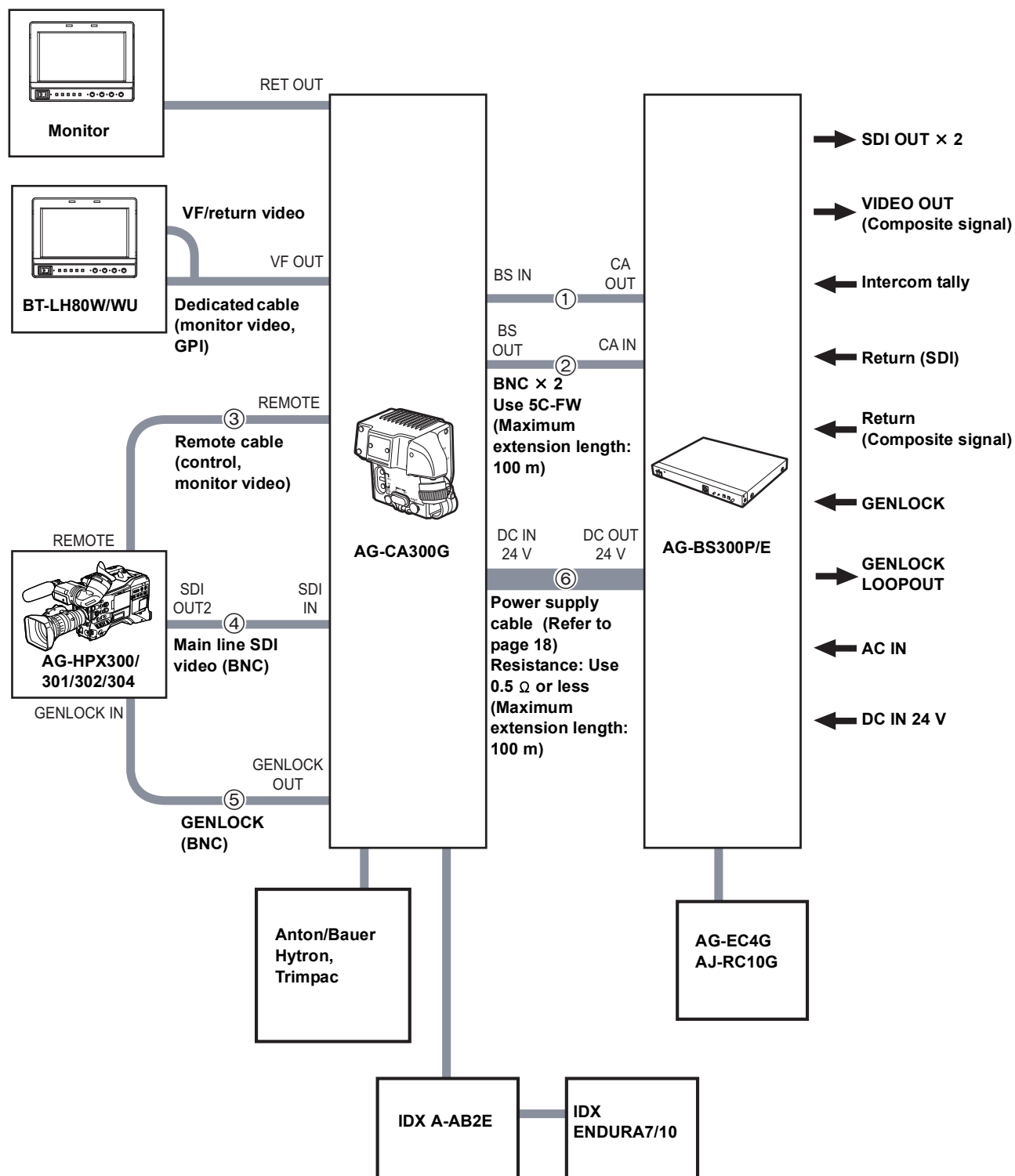
AC cable (AG-BS300P) × 1
AC cables (AG-BS300E) × 2
Rack Mount Adapters × 2
Rack Mount Adapter Screws × 6

Features

This unit has the following features:

- The unit is connected to the camera adapter (AG-CA300G; optional) by a power cable (refer to page 18 for specification) and two BNC cables, and works to supply power to the camera recorder side and transmit the video and audio signals recorded using the camera recorder.
- It is possible to transfer one line of the return video (RET). (2 lines of transfer are possible depending on the mode.)
- It is possible to transfer one line of the intercom (INCOM).
- It is possible to transfer the remote control signal.
- The transmission between this unit and the camera adapter uses a non-compressed digital signal, so transmission without any degradation of the video and audio signals is possible.
- It is possible to extend the length of the cable between this unit and the camera adapter up to 100 m. (When using BNC cable: 5C-FW)
- DC operation is possible. (However, power supply to the camera adapter is not possible.)
- The unit is compatible with multi-format.

System Configuration Diagram



<Notes>

- Be sure to connect cables ① - ⑥ shown above.
- Other compatible camera: AJ-HPX3700G, AJ-HPX3000G, AJ-HPX2700G, AJ-HPX2000/2100, AG-HPX500/502, AJ-HDX900P/E

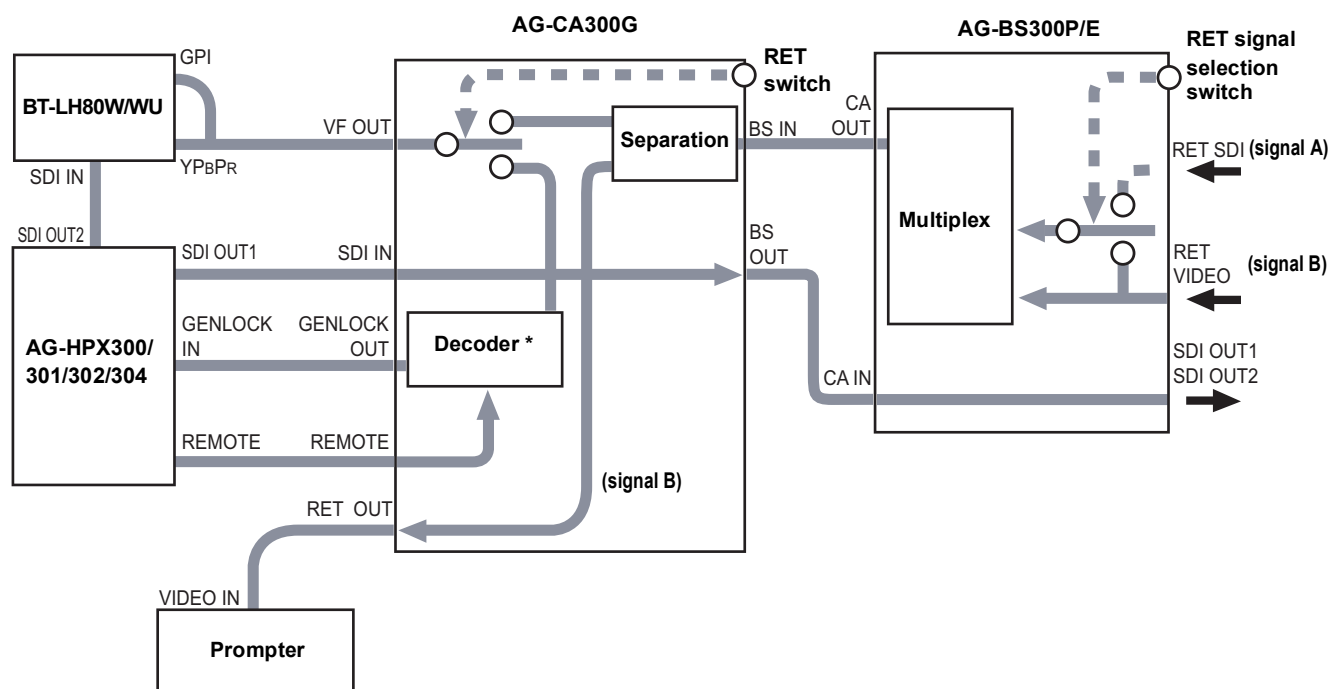
Precautions When Connecting the System

Take caution with the following when connecting the camera adapter and this unit.

- To connect the camera adapter and the unit, use a power supply cable of the specification described in [About the Power Supply Cable] (page 18). When connecting and disconnecting the power supply cable, always ensure that the power is switched OFF.
- Use the 5C-FW for the BNC cable. Maximum extension distance of 100 m cannot be achieved if any other cable is used.
- Turn the power of this unit and the camera adapter OFF once and turn it back ON after the video format of the camera recorder has changed.
- When confirming the RET signal on the camera adapter by inputting the RET signal into this unit, the image on the viewfinder (LCD monitor) may be interrupted for an instant at the moment the RET signal selection switch on the camera adapter is pressed.
- Only a dynamic microphone can be used as the microphone for INCOM.
- Most of the operational functions of the camera recorder will be controlled by the remote control unit (AG-EC4G; optional, or AJ-RC10G; optional) when the remote control unit is connected to this unit, and the remote control unit is enabled by turning the power on. (However, POWER ON/OFF, AWB/ABB, MODE CHECK, REC START/STOP, FF and REW can also be operated from the camera recorder.)
- Operation by the camera recorder will be enabled when the remote control unit is connected to this unit and disabled.
- When this unit is used in combination with the camera adapter and the camera recorder, connect the cables ① - ⑥ as shown on page 8. Also, set the GENLOCK item to "EXT" using the GENLOCK menu of the camera recorder. (This setting is not necessary for AG-HPX300/301/302/304 and AG-HPX500/502 since it is set to "EXT" mode automatically.) Also, set the GL PHASE item to "HD SDI". When this unit is used connected to the AG-HPX500/502, set the GL SELECT item to "SDI", and the GL PHASE item to "OFF".
- There is only one line of video signal sent from the camera adapter to this unit. It is not possible to view the camera recorder viewfinder image via the VIDEO OUT (MENU) connector or the SDI OUT 1/2 connector of this unit.
- This unit does not have a built in color generator etc., and a video signal will not be output from the VIDEO OUT (MENU) connector or SDI OUT 1/2 connector if only the unit is supplied with power.
- Turn on the power of the remote control unit after turning on the power for this unit when the remote control unit is connected to this unit.
- Turn on the power after connecting the power supply cable and BNC cables.
- INCOM becomes disconnected temporarily when the video format is changed on the camera recorder.
- Video output signal of this unit may be interrupted when the power is turned on, but this is not a malfunction.
- When the video format on the camera recorder is 720P, there will be misalignment of ± 1 field between the TC (time code) that is superimposed on the SDI signal and the video signal, even if the composite signal is input to the GENLOCK IN signal connector of this unit, since the 720P signal is a field unit signal.
Displacement of ± 1 field will occur between the VBS output from the camera recorder and this unit.
- When the cable ①, ②, ③, ④, ⑤, or ⑥ shown in page 8 is disconnected while operating, reconnect the cable correctly, and turn the power back on.
- When the camera recorder connected to this unit is set to 1080/23.98PsF, 1080/24PsF, or 720/60P, the down converted signal from the VIDEO OUT (MENU) connector of this unit is not output. (25IRE NTSC signal to display the menu is output.)
Also, it is not possible to input a composite signal as a RET signal.
- When this unit is used connected with the camera adapter and the camera recorder, only CH1 - CH4 of the embedded audio for the SDI signal of this unit is output.
- When this unit, the camera adapter and the AG-HPX500/502 are combined in a system and the AG-HPX500/502 is set to play back video, or put into the IEEE1394 mode, the synchronization between this unit's VIDEO OUT signal and SDI OUT 1/2 signal may be lost. Similarly, when the AG-HPX500/502 is put into playback mode or IEEE1394 mode etc., noise may appear in the INCOM signal.
For these reasons, in systems combining this unit, the camera adapter, and the AG-HPX500/502, the AG-HPX500/502 should not be used in playback mode or IEEE1394 mode.
- When this unit, the camera adapter and the AG-HPX500/502 are combined in a system and the AG-HPX500/502 is put into MCR mode, the output from the unit will be a dark screen and video will not be displayed except during playback by the AG-HPX500/502.
- Do not perform version update of the camera recorder while this unit, the camera adapter, and the camera recorder are connected. Perform the version update of the camera recorder with the camera recorder on its own.
- When combining this unit with the camera recorder, ensure that the output format of the SDI signal matches the system format of the camera recorder.

Camera Extension System and Camera Recorder Configuration Example

Connection with the AG-HPX300/301/302/304

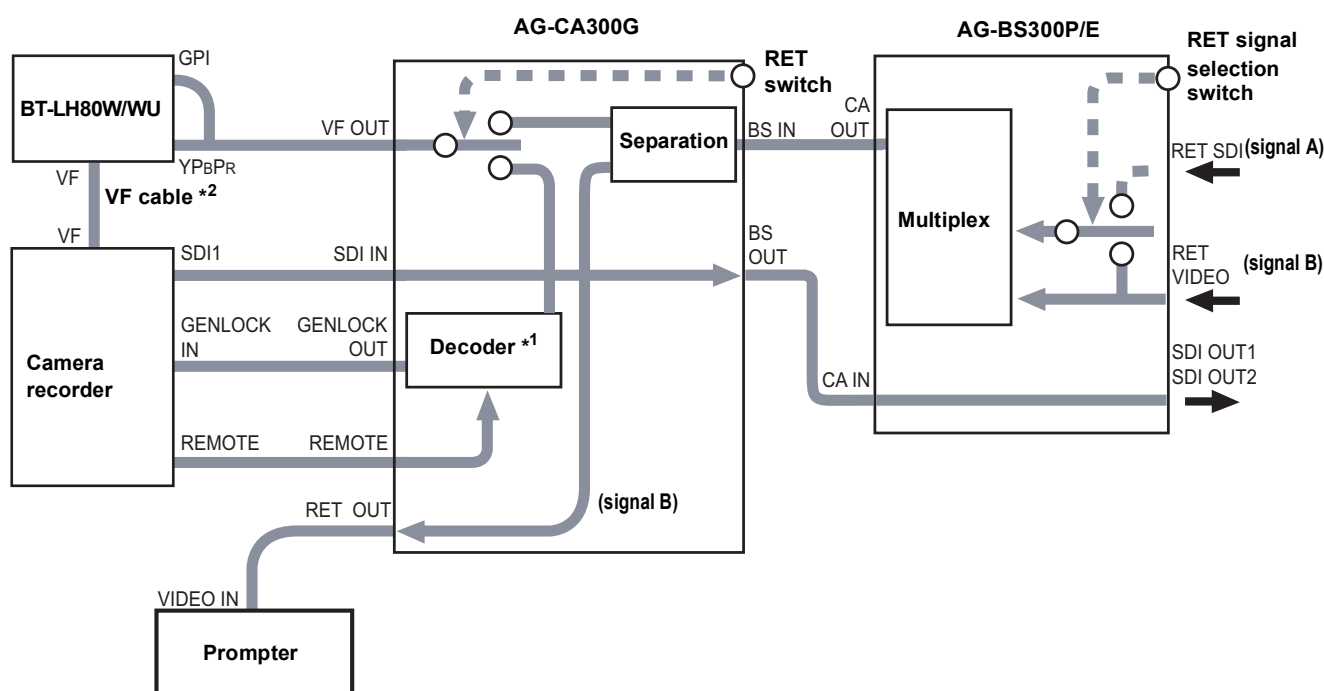


* VIDEO signal will be converted to component signal.

- Use BT-LH80W/WU as a monitor.
- When the video format of the AG-HPX300/301/302/304 is HD format, the RET signal selection switch on the unit does not work and the RET VIDEO signal is output constantly from the RET OUT connector of the camera adapter. The RET SDI signal is not output.
- When the video format of the AG-HPX300/301/302/304 is SD format, the RET signal is selected to be the RET SDI signal or the RET VIDEO signal. The selection is made using the RET signal selection switch on the unit. Also, the RET signal output from the VF OUT connector of the camera adapter is the signal selected on this unit.
- Video recording on the AG-HPX300/301/302/304 is sent to camera adapter via the REMOTE cable of the AG-HPX300/301/302/304, and the VIDEO signal (composite signal) is converted to component signal by the camera adapter.
- Video signal selected by the RET switch of the camera adapter is output from the VF OUT connector of the camera adapter. RET signal is output when the RET switch is pushed, and the signal from the AG-HPX300/301/302/304 is output when the switch is not pushed.
- If it is not necessary to display the camera status signal while displaying the video being recorded by the AG-HPX300/301/302/304 on the BT-LH80W/WU, it is possible to change the video being recorded to SDI signal by supplying SDI2 output or SDI1 output of the AG-HPX300/301/302/304 to the BT-LH80W/WU, and selecting the INPUT SEL.SDI in the GPI4 item of the BT-LH80W/WU.
- The camera extension system including this unit can send back 2 lines of signals, RET SDI signal and RET VIDEO signal of this unit, to the camera adapter simultaneously, when the video format of the AG-HPX300/301/302/304 is HD format. The RET VIDEO signal sent back to the camera adapter will be output from the RET OUT connector, so it can be used as a prompter signal or on-air monitor signal.
- When the VIDEO signal is selected by the RET signal selection switch of this unit, RET VIDEO signal will be the only return signal from this unit to the camera adapter. The VF OUT connector of the camera adapter outputs an SD component signal resulting from the conversion of the RET VIDEO signal (composite). The RET OUT connector of the camera adapter outputs the RET VIDEO signal (composite).
- If the video format of the AG-HPX300/301/302/304 is SD, only 1 line of either RET SDI signal or RET VIDEO will be the return signal from this unit. The video signal output from the RET OUT connector of the camera adapter is the result of converting the RET signal selected using the RET signal selection switch to a composite signal.

Camera Extension System and Camera Recorder Configuration Example (continued)

Connection with camera recorders other than AG-HPX300/301/302/304 or AG-HPX500/502



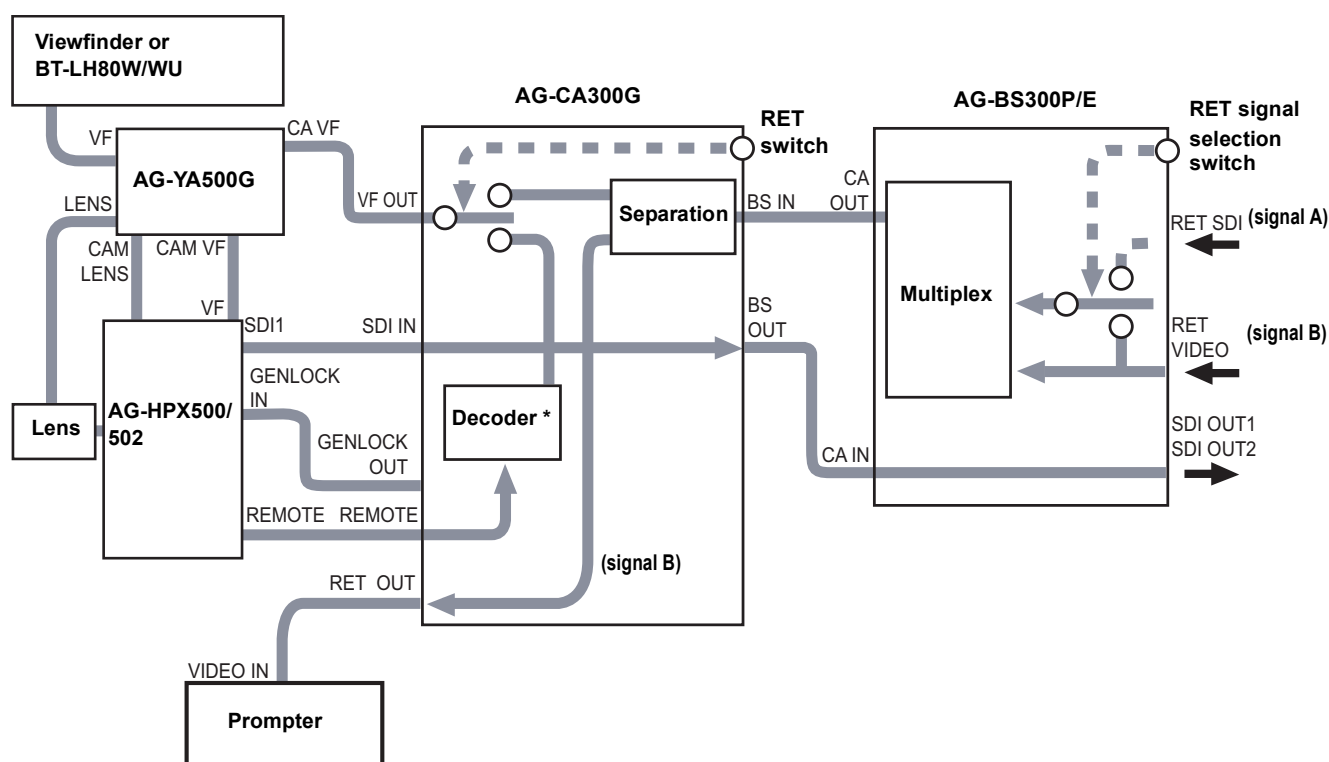
*1 VIDEO signal will be converted to component signal.

*2 Use the BT-CS80G.

- Use BT-LH80W/WU as a monitor.
- When the video format of the camera recorder is HD format, the RET signal selection switch on the unit does not work, and the RET OUT connector of the camera adapter outputs the RET VIDEO signal as normal. The RET SDI signal is not output.
- When using the AJ-HPX2000/2100 or AJ-HPX3000G, use the unit menu to set the CAMERA VF item and the CRT VF item for the AJ-HPX2000/2100 or AJ-HPX3000G to match the type of viewfinder selected in the menu settings of the camera recorder.
- When SD format has been set on a camera recorder which allows SD format as a video format (AJ-HPX2000/2100, AJ-HPX3000G), the RET signal is selected to be a RET SDI signal or a RET VIDEO signal. Selection of the signal is performed by the RET signal switching switch on this unit.
Also, the RET signal output from the VF OUT connector of the camera adapter is the signal selected on this unit.
- Signal output from the VF connector of the camera recorder for the video being recorded by the camera recorder is supplied to the VF connector of the BT-LH80W/WU via the VF cable (BT-CS80G; optional).
- When the GPI4 item of the BT-LH80W/WU is set to INPUT SEL.VF, video signal selected by the RET switch of the camera adapter is output from the VF OUT connector of the camera adapter. When the RET switch is being pushed, the RET signal is output. When not being pushed, the signal from the VF OUT connector of the camera recorder is output.
- If it is not necessary to display the camera status signal while displaying the video being recorded by the camera recorder on the BT-LH80W/WU, it is possible to change the video being recorded to SDI signal by supplying SDI2 output or SDI1 output of the camera recorder to the BT-LH80W/WU, and selecting the INPUT SEL.SDI in the GPI4 item of the BT-LH80W/WU.
- The camera extension system including this unit can send back 2 lines of signals, RET SDI signal and RET VIDEO signal of this unit, to the camera adapter simultaneously, when the video format of the camera recorder is HD format. The RET VIDEO signal sent back to the camera adapter will be output from the RET OUT connector, so it can be used as a prompter signal or on-air monitor signal.
- When the VIDEO signal is selected by the RET signal selection switch of this unit, RET VIDEO signal will be the only return signal from this unit to the camera adapter. The VF OUT connector of the camera adapter outputs an SD component signal resulting from the conversion of the RET VIDEO signal (composite). The RET OUT connector of the camera adapter outputs the RET VIDEO signal (composite).
- When SD format has been set on a camera recorder which allows SD format as a video format (AJ-HPX2000/2100, AJ-HPX3000G), the RET signal from the unit is selected to be either an SDI signal or a RET VIDEO signal. The video signal output from the RET OUT connector of the camera adapter is a composite signal resulting from the conversion of the RET signal selection switch using the RET signal selection switch.

Camera Extension System and Camera Recorder Configuration Example (continued)

Connection with the AG-HPX500/502

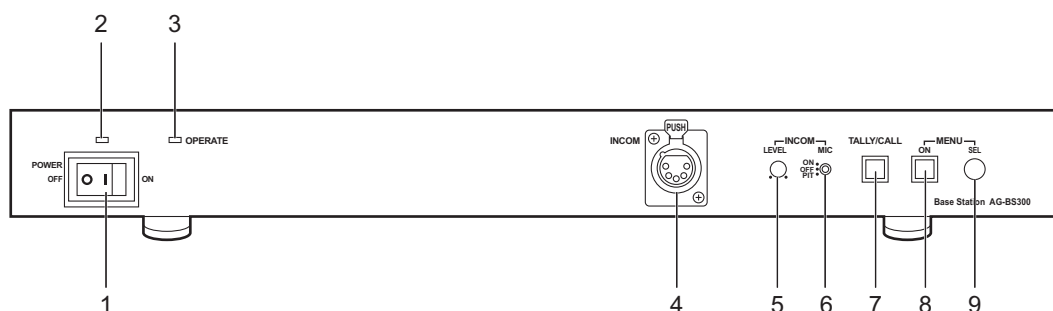


* VIDEO signal will be converted to component signal.

- Use the viewfinder included with the AG-HPX500/502 (dedicated for SD). Also, it is required to use the AG-YA500G (optional).
- Use the RET VIDEO signal as the RET signal. Selection of the signal is performed by the RET signal switching switch on this unit.
Also, the RET signal output from the VF OUT connector of the camera adapter is the signal in SD format selected by this unit. When using a viewfinder, input the SD format signal into the RET IN SDI connector and RET IN VIDEO connector of the unit.
- Video being recorded by the AG-HPX500/502 is supplied to the AG-YA500G from the VF connector of the AG-HPX500/502.
- Video signal selected by the RET switch of the camera adapter is output from the VF OUT connector of the camera adapter. The RET signal is output from the VF connector of the AG-YA500G while the RET switch on the camera adapter or the RET switch on the lens is pushed, and the signal from the AG-HPX500/502 is output when it is not pushed.
- The R TALLY LED on the viewfinder will light up while recording with the AG-HPX500/502, or when the R TALLY signal is supplied to this unit.
- When the BT-LH80W/WU is used rather than the viewfinder included with the AG-HPX500/502, and the AG-YA500G VF connector is connected to the BT-LH80W/WU VF connector with the dedicated VF cable (BT-CS80G; optional), it is possible to input an HD SDI signal to the RET IN SDI signal connector of the unit and have the RET signal in HD format.
- When this unit, the camera adapter and the AG-HPX500/502 are combined in a system and the AG-HPX500/502 is put into MCR mode, the output from the unit will be a dark screen and video will not be displayed except during playback by the AG-HPX500/502.

Part Names and Functions

Front Panel



1. POWER switch

This is the main power switch when using an AC power supply. It does not work when using a DC power supply.

2. POWER lamp

This indicates that the main power supply (AC power supply) is turned on.

3. OPERATE lamp

This indicates that this unit is operating. It will be as follows depending on the operation status of this unit.

Light off: This indicates that main power supply is off or that the unit is initializing after the power has been switched on.

Green light: This indicates that it is in normal operation status.

Green flashing: This indicates the lock is being acquired by this unit, the camera adapter, or the camera recorder in cases such as right after power on.

Red flashing: This indicates that the cables between this unit and the camera adapter or the cables between the camera adapter and the camera recorder (①, ②, ③, ④, or ⑤ on page 8) are not connected or there is a break in the cables. Check and reconnect the cables, and then turn the power of this unit OFF once and turn it back ON.

Red light: This indicates that the fan motor is not revolving. If the fan stops turning during normal operation or otherwise behaves abnormally, consult a dealer.

4. INCOM connector

Connect the headset for the intercom. Only a dynamic microphone can be used. Use a 3-meters or less cable.

5. INCOM volume level potentiometer

This is a potentiometer to adjust the volume level of the intercom.

6. MIC switch

This is the ON/OFF switch for the intercom microphone. There are three positions: ON/OFF/PTT*.

*PTT (Push To talk): Microphone is turned on only while pushed.)

7. TALLY lamp/CALL switch

This is turned on while the TALLY signal is input to this unit. The TALLY lamp on the camera adapter will be turned on while this is pressed.

TALLY lamp on the camera adapter and the TALLY lamp connected to the VF OUT connector of the camera adapter will be turned on when the TALLY signal is input to this unit, and there will be no change even if the CALL switch is pressed.

<Note>

The viewfinder connected to the VF connector of the camera recorder will not turn on even if the CALL switch is pressed.

With camera recorders that can mount the viewfinder interface box (AG-YA500G; optional), it can be lighted up after mounting. However, it will also light up when the connected camera recorder is recording, so there will be no change even when the CALL switch is pushed.

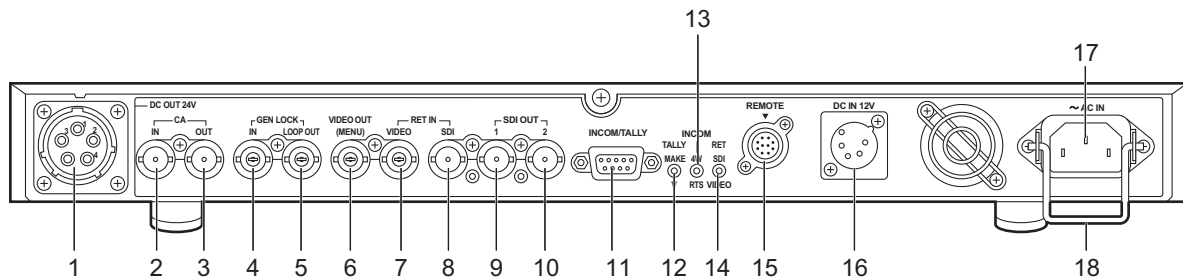
8. MENU switch

This is a switch to open the MENU to change the setting of this unit. Push for 3 seconds or more.

9. SEL switch

This is a switch to select the settings of this unit from the MENU of this unit.

Rear Panel



1. DC OUT 24 V connector

DC 24 V is output while this unit is operating with the AC power supply.
This will supply DC power supply to the camera adapter.
24 V is not output when this unit is operating with the DC power supply.

2. CA IN connector

Connect the BNC cable from the camera adapter.
Connect with the BS OUT connector of the camera adapter using the BNC cable (5C-FW).

3. CA OUT connector

Connect the BNC cable from the camera adapter.
Connect with the BS IN connector of the camera adapter using the BNC cable (5C-FW).

4. GENLOCK IN connector

This is a reference signal input connector to lock this unit with an external sync.

<Note>

Select the signal to input that matches the video format of the camera recorder. For details, refer to [About the Signals to Input to GENLOCK IN Connector] (page 16).

5. GENLOCK LOOPOUT connector

This is a loop through with the GENLOCK IN connector.

6. VIDEO OUT (MENU) connector

Composite signal is output.
Color phase will be also locked to the reference signal when the BS signal (burst sync) is input as a reference signal into the GENLOCK IN connector.
The down convert signal is not output from the VIDEO OUT (MENU) connector when the video format for the camera recorder is set to 1080-23.98PsF, 1080-24PsF or 720-60P.

<Note>

25IRE NTSC signal is output to display menu.

7. RET IN VIDEO signal connector

This is an input connector for the return video signal from this unit to the camera adapter.
This will input a composite signal.
RET video cannot be viewed on the CRT viewfinder or color viewfinder when the video format is set to 23.98PsF or 1080-24PsF.
When the system frequency is 59.94 Hz, be sure to match the SETUP menu settings of the camera and this unit to the SETUP level of the signal input to the RET IN VIDEO connector.

8. RET IN SDI signal connector

This is an input connector for the return video signal from this unit to the camera adapter.
This will input a SDI signal.
RET video cannot be viewed on the CRT viewfinder or color viewfinder when the video format for the camera recorder is set to 1080-23.98PsF or 1080-24PsF.

<Note>

For signals supplied to the 7.RET IN VIDEO signal connector and the 8.RET IN SDI signal connector and the signal output from the camera adapter, refer to [About the RET Signal] (page 16).

9. SDI OUT 1 connector

This will output the SDI signal that was output from the camera recorder.

10. SDI OUT 2 connector

This will output the SDI signal that was output from the camera recorder.
Same signal as the signal output from SDI OUT 1 connector is output.

11. INCOM/TALLY connector

This is a connector between this unit and the external intercom system and TALLY system.

12. TALLY selection switch

This is a switch to match with the TALLY system connected to the 11.INCOM/TALLY connector.
Select either contact or supplied voltage. For supplied voltage: It is compatible with 8 V - 12 V.

MAKE: Select this when the TALLY input signal is a contact

V: Select this when the TALLY input signal is a supplied voltage

13. INCOM selection switch

This is a switch to match with the INCOM system connected to the INCOM/TALLY connector.
Select either 4-wire format or RTS format.

4W: Select this when it is a 4-wire format

RTS: Select this when it is a RTS format

<Notes>

- Set this switch to 4 W if the INCOM is not used and it is a system with this unit and a camera adapter connected one-to-one.
- Make sure to connect to a RTS system when the switch is set to RTS. When using the RTS format, the 11.INCOM/TALLY connector should be terminated with 200 Ω between pin 7 and pin 8 (refer to page 22).

Part Names and Functions (continued)

14. RET signal selection switch

This is a switch to select the return signal from this unit to the camera adapter.

Select the RET signal supplied to either the 7.RET IN VIDEO signal connector or the 8.RET IN SDI signal connector.

SDI: Selects the SDI signal supplied to the 8.RET IN SDI signal connector. However, if the SDI is selected in HD mode, it is possible to transfer VIDEO signal simultaneously.

The video output from the RET OUT connector of the camera adapter differs in HD format and SD format. For further details, refer to the operating instructions for the AG-CA300G.

VIDEO: Selects the VIDEO signal supplied to the 7.RET IN VIDEO signal connector.

15. REMOTE connector

Connect the AG-EC4G (optional) or the AJ-RC10G (optional), and controls the camera recorder.

16. DC IN 12 V connector

External DC power supply is connected when operating this unit with DC. Use a power supply with a capacity of DC 12 V 3 A or higher.

When using an external DC power, use a shielded cable 3 meters or shorter between the external DC power and this unit. This unit will go into DC operation status when the DC power supplying connector is connected to this connector.

When only a DC power supply is supplied to this unit, DC 24 V is not output from the 1.DC OUT 24 V connector. DC 24 V is output from the 1.DC OUT 24 V connector only when the AC power is supplied to this unit. (Refer to page 22)

■ Use of external DC power supply

Make sure that the output voltage of the external DC power supply meets the rated voltage of the unit before making a connection.

The output current of the external DC power supply should be large enough to provide the connected unit with its total amperage needs with a reasonable margin.

Use the following formula to calculate the total amperage of the unit.

$$\text{total power consumption} \div \text{voltage}$$

When the power is turned on, a rush current occurs. If the power supply is insufficient during this time, the unit may be damaged. Therefore, we recommend using an external DC power supply that provides at least twice the total power consumed by the unit. We also recommend using the proper DC cable recommended for your external DC power supply.

● When using an external power supply other than the AC adapter, check the DC IN socket pin information to ensure correct polarity. If a +12 V power supply is accidentally connected to the GND terminal, this could cause a fire or personal injury.

17. AC IN connector

This is a connector to supply AC power to this unit.

This is connected to the power outlet using the attached AC power supply cable.

18. Cable hook

This is used to prevent the AC power supply cable slipping off.

About the Signals to Input to GENLOCK IN Connector

Supply the following signals to the GENLOCK IN connector, as a GENLOCK input signal to this unit, in accordance with the video format used.

Video may be disrupted if any other signals are supplied.

Video format of the camera recorder	Signal to be supplied to the GENLOCK IN connector (analog signal)	
1080/59.94i	When HD SYNC is supplied	1080/59.94i, 3-value SYNC
	When SD SYNC is supplied	480/59.94i, black burst signal (SYNC + burst)
1080/23.98PsF	When HD SYNC is supplied	1080/23.98PsF, 3-value SYNC
	When SD SYNC is supplied	Not supported
1080/50i	When HD SYNC is supplied	1080/50i, 3-value SYNC
	When SD SYNC is supplied	576/50i, black burst signal (SYNC + burst)
1080/24PsF	When HD SYNC is supplied	1080/24PsF, 3-value SYNC
	When SD SYNC is supplied	Not supported
720/59.94P	When HD SYNC is supplied	720/59.94P, 3-value SYNC
	When SD SYNC is supplied	480/59.94i, black burst signal (SYNC + burst)
720/60P	When HD SYNC is supplied	720/60P, 3-value SYNC
	When SD SYNC is supplied	Not supported
720/50P	When HD SYNC is supplied	720/50P, 3-value SYNC
	When SD SYNC is supplied	576/50i, black burst signal (SYNC + burst)
480/59.94i	When HD SYNC is supplied	Not supported
	When SD SYNC is supplied	480/59.94i, black burst signal (SYNC + burst)
576/50i	When HD SYNC is supplied	Not supported
	When SD SYNC is supplied	576/50i, black burst signal (SYNC + burst)

<Note>

When using the unit in HD mode, input the HD 3-value SYNC signal or black burst signal. When using the SD mode, input the black burst signal. When the SD 2-value SYNC signal without a burst signal is supplied, GENLOCK does not work.

About the RET Signal

The RET signal input to this unit can be transferred to the camera adapter.

When the video format of the camera recorder is HD format, the video signal supplied to the RET IN SDI connector and the RET IN VIDEO connector can be transferred to the camera adapter. When the video format of the camera recorder is SD format, either of the video signals supplied to the RET IN SDI connector or the RET IN VIDEO connector can be transferred to the camera adapter.

The signal output to the VF OUT connector (D-Sub connector) of the camera adapter can be switched with the RET signal selection switch at the rear panel of this unit.

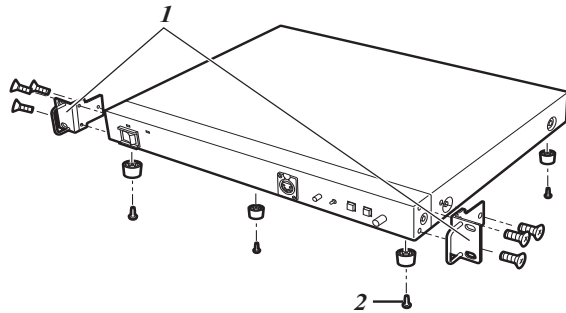
Video format of the camera recorder	Input signal of the AG-BS300P/E			Output signal to the AG-CA300G	
	Input signal connector name	Input signal	RET signal selection switch at the rear	VF OUT connector (D-Sub)	RET OUT connector (BNC)
HD	RET IN SDI	HD SDI (signal A)	SDI	HD component (signal A)	Composite (signal B)
	RET IN VIDEO	Composite (signal B)			
	RET IN SDI	HD SDI (signal A)	VIDEO	SD component (signal B)	
	RET IN VIDEO	Composite (signal B)			
	RET IN SDI	SD SDI (signal C)* ¹	SDI	Signal is not output	
	RET IN VIDEO	Composite (signal B)			
	RET IN SDI	SD SDI (signal C)* ¹	VIDEO	SD component (signal B)	
	RET IN VIDEO	Composite (signal B)			
SD	RET IN SDI	SD SDI (signal A)	SDI	SD component (signal A)	Composite (signal A)
	RET IN VIDEO	Composite (signal B)			
	RET IN SDI	SD SDI (signal A)	VIDEO	SD component (signal B)	Composite (signal B)
	RET IN VIDEO	Composite (signal B)			
	RET IN SDI	HD SDI (signal C)* ²	SDI	Signal is not output	
	RET IN VIDEO	Composite (signal B)			
	RET IN SDI	HD SDI (signal C)* ²	VIDEO	SD component (signal B)	
	RET IN VIDEO	Composite (signal B)			

*1 When the video format of the camera recorder is HD format, SD SDI signals cannot be transmitted.

*2 When the video format of the camera recorder is SD format, HD SDI signals cannot be transmitted.

About the Rack Mount

This unit can be installed onto an EIA standard rack.



- 1** Using the 6 included rack mount adapter screws, mount the included rack mount adapters.
- 2** Loosen the screws, and remove the 4 pedestals.
- 3** Mount onto the rack using screws (commercially available). Tighten the screws securely.

<Note>

Always ensure that the cables connecting to the connectors on the rear panel are clamped to the pillars of the rack etc. and that the mass of cables does not lie directly on the unit.

Setting up the camera recorder

Setup the camera recorder to configure a system by connecting this unit with the AG-CA300G and the camera recorder. For the setting of the camera recorder, refer to the operating instructions of the camera recorder.

Setting of the video format

Using camera recorder menu operations or switch operations, set the video signal format of the output from the SDI output connector of the camera recorder and the video signal format for recording to the same format.

Setting of the GENLOCK MODE

Set the GENLOCK MODE of the camera recorder to GENLOCK: EXT using the menu operation of the camera recorder.

(However, it is not necessary to set with AG-HPX300/301/302/304 and AG-HPX500/502.)

Setting of the GENLOCK PHASE

Set the GL PHASE of the camera recorder to GL PHASE: HD SDI using the menu operation of the camera recorder. If it is used connected to the AG-HPX500/502, set the GL SELECT item to SDI, and the GL PHASE item to OFF. Also, set the GL PHASE item to "HD SDI". When this unit is used connected to the AG-HPX500/502, set the GL SELECT item to "SDI", and the GL PHASE item to "OFF".

Setting of the CRT VF

Set the VF TYPE to be used on the camera recorder using the menu operation of the camera recorder.

If it is set to VF TYPE: SD, only the SD video can be checked for the return video (RET video) from this unit.

Setting of the battery

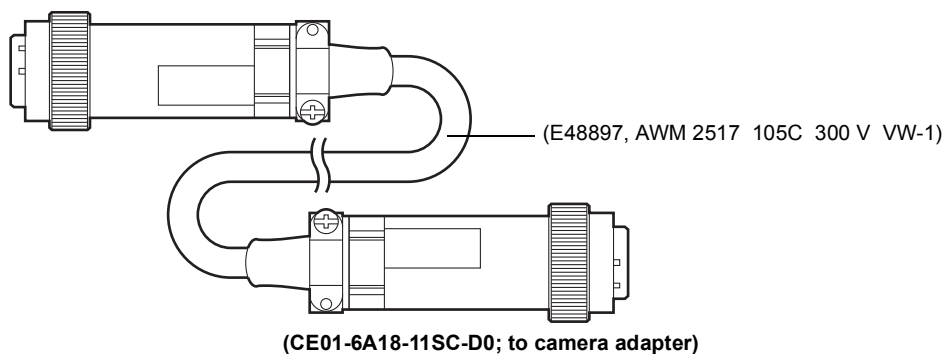
The power to the camera recorder from the unit is supplied to a battery connector on the camera recorder via the camera adapter. When the power is supplied from the unit connecting the camera adapter and the camera recorder, set the battery setting on the camera recorder to "TYPE B", the voltage for full display to "13.0 V", the near end voltage to "12.5 V" and the end voltage to "12.0 V". For further details, refer to the camera recorder operating instructions.

About the Power Supply Cable

Use the power supply cable with the following specifications with the unit.

The extension length of 100 m cannot be maintained between this unit and the camera adapter especially if the resistance value is larger than the following specifications.

(CE01-6A18-11PC-D0; to the unit)



1) Conductor resistance: 0.5 Ω or less

(Real cross-section area of the conductor: 3.5 mm²)

2) Structure

Number of wires: 4

Cross-section area of each wire: 1.75 mm²

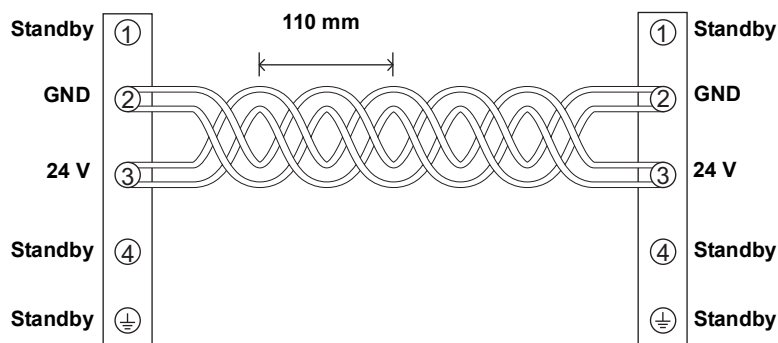
3) Withstanding voltage

AC 60 V or higher

Real applied voltage: DC 24 V

4) Stranding pitch

Stranding pitch for 4 wires: 110 mm



5) Finished external dimensions

10 mm or less

6) End connector part numbers

AG-CA300G side: CE01-6A18-11SC-D0
(Manufacturer: DDK Ltd.)

AG-BS300P/E side: CE01-6A18-11PC-D0
(Manufacturer: DDK Ltd.)

7) Part number of cables

DC50V10-CE01PS-SC (50 m)

DC100V10-CE01PS-SC (100 m)

(E48897, AWM 2517 105C 300 V VW-1, Manufacturer: Canare Electric)

Menu Display

Setting menu can be displayed in the video output from the VIDEO OUT (MENU) connector in the rear panel of this unit.

Basic structure of the menu

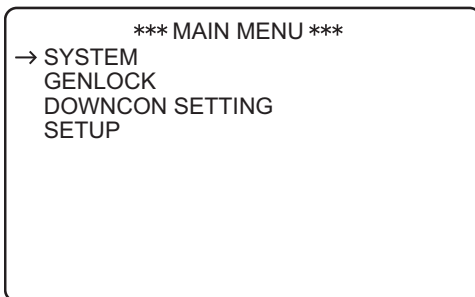
Menu setting is operated with the MENU switch and the SEL switch.

Menu is divided into main menu, and submenu and setting items.

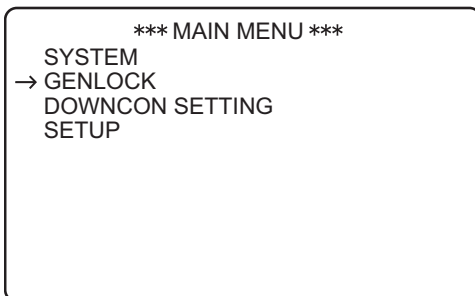
Set data is written and saved into the internal memory of this unit.

Basic operation of menu display

- 1 Press the MENU switch (page 13) on the front panel for 3 seconds. Setting menu is displayed in the video output from the VIDEO OUT (MENU) connector. There are four setting menus, SYSTEM, GENLOCK, DOWNCON SETTING and SETUP.



- 2 To open the submenu, turn the SEL switch aligning the arrow with SYSTEM, GENLOCK, DOWNCON SETTING or SET UP and then press the SEL switch.



- 3 Items to set will flash when the arrow (→) is moved to the item to set by turning the SEL switch, and pressing the SEL switch. Change the setting of the item by turning the SEL switch.

To increase the setting value:

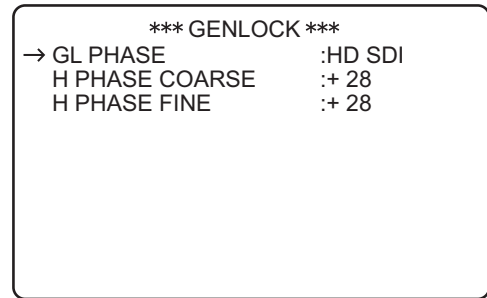
Turn the SEL switch clockwise.

To decrease the setting value:

Turn the SEL switch counter-clockwise.

To switch between ON/OFF of the setting value:

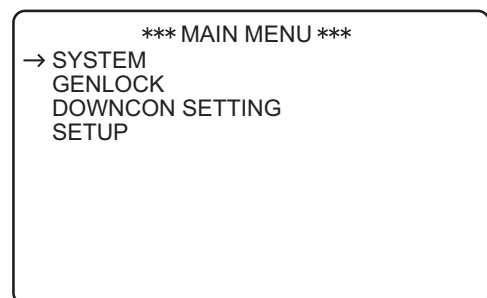
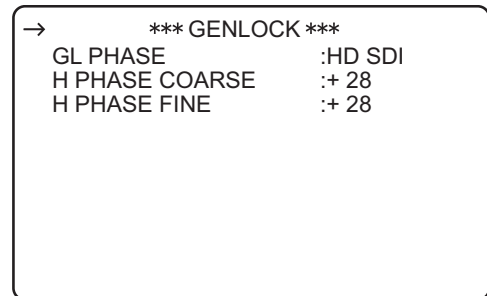
Turn the SEL switch clockwise to set ON. Turn the SEL switch counter-clockwise to set OFF.



- 4 Press the SEL switch. Flashing of the setting value will stop, and the setting value will be set.

- 5 Repeat steps 3 and 4 to continue to change other settings on the same page.

- 6 To return to the SYSTEM, the GENLOCK, the DOWNCON SETTING or the SETUP screen from the submenu screen, move the arrow to the menu title by turning the SEL switch, and press the SEL switch.



- 7 Press the MENU switch once the setting is completed. It will exit from the menu setting mode, and return to the normal operation mode.

<Note>

When the system format of the camera recorder is SD, 1080-23.98PsF, 1080-24PsF or 720-60P, the DOWNCON SETTING item is not displayed in the menu.

List of Menus

<SYSTEM>

Item / Data Saved	Variable Range	Note
FORMAT	1080-59.94i 1080-23.98PsF 1080-24PsF 1080-50i 720-59.94P 720-50P 720-60P 480-59.94i 576-50i	Displays the format used in this unit. Status display only. This cannot be changed by the menu.
CAMERA VF	<u>HD/LCD</u> SD	Set the format of the viewfinder used on the camera recorder. HD/LCD: HD format CRT viewfinder, LCD viewfinder or BT-LH80W/WU SD: SD format viewfinder

<GENLOCK> SD mode

Item / Data Saved	Variable Range	Note
H PHASE COARSE	+15 : <u>0</u> : -15	When the system is composed in SD format, coarse adjustment of the phase focusing for the horizontal synchronization is performed.
H PHASE FINE	+30 : <u>0</u> : -30	When the system is composed in SD format, fine adjustment of the phase focusing for the horizontal synchronization is performed.
SC PHASE COARSE	<u>0</u> : 3	Coarse adjustment of sub-carrier phase of the VIDEO output connector is performed.
SC PHASE FINE	+75 : <u>0</u> : -75	Fine adjustment of sub-carrier phase of the VIDEO output connector is performed.

<GENLOCK> 180/720 mode

Item / Data Saved	Variable Range	Note
GL PHASE	<u>HD SDI</u> COMPOSIT	Select the output signal to lock the phase to the signal input to the GEN LOCK IN connector. HD SDI: HD SDI signal will be locked to the GENLOCK input. Start position for the video of the down convert signal will be delayed approximately 90 lines. COMPOSIT: Down convert signal will be locked to the GENLOCK input. Start position for the video of the HD SDI output signal will be forwarded approximately 90 lines. <Note> Set the GL PHASE in the camera recorder to HD SDI.
H PHASE COARSE	+60 (+40) : <u>0</u> (0) : -60 (-40)	When the system is composed in HD format, coarse adjustment of the phase focusing for the horizontal synchronization is performed. The value in brackets is the value when in 720P mode.
H PHASE FINE	+100 : <u>0</u> : -100	When the system is composed in HD format, fine adjustment of the phase focusing for the horizontal synchronization is performed.

<Note>

The ____ in the Variable Range column indicates the preset mode.

List of Menus (continued)

<DOWNCON SETTING> Only displayed when in HD mode

Item / Data Saved	Variable Range	Note
DOWNCON MODE	<u>SQUEEZE</u> SIDE-CROP LETTER BOX	Set the mode for the composite signal output from the VIDEO OUT (MENU) connector. SQUEEZE: Video will be squeezed horizontally. SIDE-CROP: Video will be cropped on both sides. LETTER BOX: Video will be squeezed vertically.
DETAIL	<u>ON</u> OFF	Set the ON/OFF of the detail function of the composite signal output from the VIDEO OUT (MENU) connector. ON: Detail signal will be added. OFF: Detail signal will not be added. Detail component that was set during the HD signal processing of the camera recorder is included in the composite signal output from the VIDEO OUT (MENU) connector. This setting will superimpose the detail signal of the composite signal output from the VIDEO OUT (MENU) connector on the signal from the camera recorder. Detail signal that was added during the HD signal processing cannot be turned OFF even if this setting is turned OFF.
DETAIL LEVEL	0 : <u>8</u> : 31	Set the level of the detail component for the composite signal output from the VIDEO OUT (MENU) connector. <Note> Detail signal is added to the menu, status, and TC display of the camera recorder when the detail level is increased.
DETAIL CORING	0 : <u>1</u> : 15	Set the level of the noise elimination level included in the detail component for the composite signal output from the VIDEO OUT (MENU) connector.
2D LPF	<u>ON</u> OFF	Perform the setting of the 2D low-pass filter which will reduce the cross-color. ON: Reduction of cross-color is performed. OFF: Reduction of cross-color is not performed. <Note> 2D LPF effect will be minor when the system mode of the camera recorder is 1080-50i, 720-50P, or 576-50i.

<SETUP>

Item / Data Saved	Variable Range	Note
SETUP	0% <u>7.5%</u>	Perform the setting of the setup level against the composite signal output from the VIDEO OUT (MENU) connector. (Only for 59.94i) 0%: Setup level is 0 %. 7.5%: Setup level is 7.5 %. Setup level will become 0 % when the system frequency is 50 Hz. When the system frequency is 59.94 Hz, set the setting value in this menu to match the SETUP menu of the camera recorder and the SETUP level of the video signal input to the RET IN VIDEO connector.

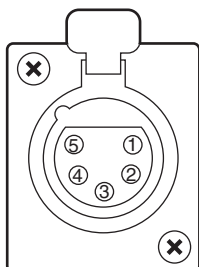
<Note>

The ____ in the Variable Range column indicates the preset mode.

Connector Signals

INCOM	
1	INCOM MIC GND
2	INCOM MIC
3	INCOM RECEIVE GND
4	INCOM RECEIVE
5	INCOM RECEIVE

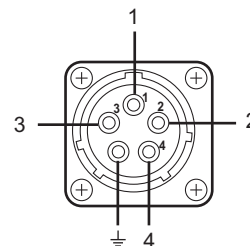
Panasonic part number
K1AB105H0003
Manufacturer part number
HA16PRH-5S
(Hirose Denki)



DC OUT 24 V	
1	Standby
2	GND
3	24 V
4	Standby
⏏	Standby

Panasonic part number
K1AY105J0004
Manufacturer part number
CE01-2A18-11SC-D0
(DDK Ltd.)

Cable side connector
Manufacturer part number
CE01-6A18-11PC-D0
(DDK Ltd.)

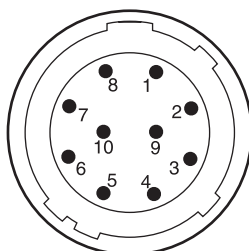


<Note>

Connect pin 3 of the INCOM cable connector to frame GND.

REMOTE	
1	CAM DATA (H)
2	CAM DATA (C)
3	CAM CONT (H)
4	CAM CONT (C)
5	ECU ON
6	VIDEO
7	VIDEO GND
8	—
9	+13 V
10	GND

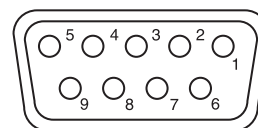
Panasonic part number
K1AY110JA001
Manufacturer part number
HR10A-10R-10SC(71)
(Hirose Denki)
Cable side connector
Manufacturer part number
HR10A-10P-10PC(73)
(Hirose Denki)



INCOM/TALLY	
1	INCOM IN (C)
2	INCOM GND
3	INCOM OUT (C)
4	GND
5	—
6	INCOM IN (H)
7	INCOM OUT (H)
8	INCOM GND
9	R TALLY IN

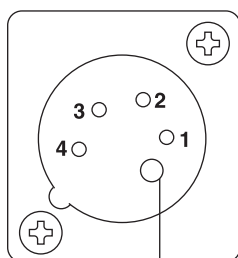
Panasonic part number
K1FB109B0078
Manufacturer part number
RDED-9S-LNA (4-40) (55)
(Hirose Denki)

Cable side connector
Manufacturer part number
HDEB-9PF(05)
(Hirose Denki)



DC IN 12 V	
1	GND
2	—
3	—
4	+12 V

Panasonic part number
K1AA104H0038
Manufacturer part number
HA16RX-4P(SW1)(76)
(Hirose Denki)



Switch

Specifications

[General]

Input: AC 100 V - 240 V, 50/60 Hz, 1.6 A - 0.6 A
DC 12 V, 1.1 A
Output: DC 24 V, 4 A

 indicates safety information.

Operation ambient temperature:

0 °C to 40 °C (32 °F to 104 °F)

Storage temperature:

-20 °C to 60 °C (-4 °F to 140 °F)

Operation ambient humidity:

10 % to 85 % (relative humidity)

Weight:

approx. 4.8 kg (approx. 10.6 lb)

External dimensions (width × height × depth):

432 mm × 44 mm × 360 mm

17.0 inches × 1.7 inches × 14.2 inches

(Excluding rack mount adapter and protrusions such as leg base)

[Power Supply Unit]

AC IN:

AC inlet

AC 100 V - 240 V, 50/60 Hz, 1.6 A - 0.6 A

DC IN 12 V:

XLR 4 pin, with switch

DC 12 V (DC 11 V - 17 V), 1.1 A

DC OUT 24 V:

Round 5 pin

DC 24 V, maximum 4 A

REMOTE:

Round 10 pin

DC 13 V, 0.3 A

[Transfer Unit]

DC power supply transfer (this unit → AG-CA300G):

Maximum 100 m

(When using conductor cross-section area of 3.5 mm² or larger)

Signal transfer (this unit ↔ AG-CA300G):

Maximum 100 m

(When using the 5C-FW BNC cable)

[Analog Signal Input Unit]

GENLOCK IN:

BNC

HD: Analog 3-value sync, ± 0.3 V, 75 Ω

1080/59.94i, 1080/23.98PsF, 1080/24PsF, 1080/50i,

720/59.94P, 720/50P

SD: Black burst, 75 Ω

480/59.94i, 576/50i

RET IN VIDEO:

BNC

VBS, 1 V [P-P], 75 Ω

480/59.94i, 576/50i

[Analog Signal Output Unit]

VIDEO OUT:

BNC

VBS, 1 V [P-P], 75 Ω

GENLOCK LOOPOUT:

BNC

[Digital Signal Input Unit]

RET IN SDI:

BNC, 75 Ω

For HD SDI, compliant to SMPTE292M/299M Standard
1080/59.94i, 1080/23.98PsF, 1080/24PsF, 1080/50i,
720/59.94P, 720/50P

For SD SDI, compliant to SMPTE259M-C/272M-A
ITU-R.BT656-4 standards

480/59.94i, 576/50i

CA IN:

BNC, 75 Ω

[Digital Signal Output Unit]

SDI OUT1:

BNC, 0.8 V [P-P], 75 Ω

For HD SDI, compliant to SMPTE292M/299M Standard
1080/59.94i, 1080/23.98PsF, 1080/24PsF, 1080/50i,
720/59.94P, 720/50P

For SD SDI, compliant to SMPTE259M-C/272M-A
ITU-R.BT656-4 standards

480/59.94i, 576/50i

SDI OUT2:

BNC, 0.8 V [P-P], 75 Ω

For HD SDI, compliant to SMPTE292M/299M Standard
1080/59.94i, 1080/23.98PsF, 1080/24PsF, 1080/50i,
720/59.94P, 720/50P

For SD SDI, compliant to SMPTE259M-C/272M-A
ITU-R.BT656-4 standards

480/59.94i, 576/50i

CA OUT:

BNC, 75 Ω

[Control Unit]

REMOTE:

Round 10 pin

[External Device Connection Unit]

INCOM/TALLY:

D-Sub 9 pin

INCOM:

4-wire format 0 dBm (600 Ω balanced)

RTS format 1 V [P-P] (200 Ω balanced)

TALLY:

Switchable between supplied voltage and contact

DC 12 V maximum for supplied voltage (8 V to 12 V)

[Intercom Unit]

INCOM:

XLR 5 pin

Inrush current, measured according to European standard
EN55103-1: 10.0 A

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

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Panasonic Broadcast & Television Systems Company Unit Company of Panasonic Corporation of North America

Executive Office: One Panasonic Way 4E-7, Secaucus, NJ 07094 Tel: 201-348-7000

Eastern Zone: One Panasonic Way 4E-7, Secaucus, NJ 07094 Tel: 201-348-7196

Southeast Region: Tel: 201-392-6151

Western Zone: 3330 Cahuenga Blvd W., Los Angeles, CA 90068 Tel: 323-436-3608

Government Marketing Department:

One Panasonic Way 2E-10, Secaucus, NJ 07094 Tel: 201-348-7587

Broadcast PARTS INFORMATION & ORDERING:

9:00 a.m. – 5:00 p.m. (EST) Tel: 800-334-4881/24 Hr. Fax: 800-334-4880

Emergency after hour parts orders Tel: 800-334-4881

e-mail: PBTSparts@us.panasonic.com

TECHNICAL SUPPORT: Emergency 24 Hour Service Tel: 800-222-0741

e-mail: PBTSCservice@us.panasonic.com

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3 Tel: 905-624-5010

Panasonic de México S.A. De C.V.

Casa Matriz: Moras No.313 Col. Tlacoquemecatl Del Valle Del Benito Juárez México, D.F., C.P.03200

Tel: 55-5488-1000 Fax: 55-5575-6783

Panasonic Latin America, S.A.

P.O.Box 0816-03164 Panama, Republic of Panama Tel: +507-229-2955 Fax: 507-229-5352

Panasonic do Brasil Ltda.

Rua Cubatão, 320-6º andar-Paraíso CEP 04013-001- São Paulo -SP Tel: 11-3889-4000 Fax: 11-3889-4004

Professional & Broadcast IT Systems Business Unit Europe

Panasonic AVC Systems Europe a Division of Panasonic Marketing Europe GmbH

Hagenauer Str. 43, 65203 Wiesbaden-Biebrich Deutschland Tel: +49-611-235-481

Panasonic Systems Asia Pacific (Broadcast Regional Operation Center)

2 Jalan Kilang Barat, Panasonic Building, Singapore 159346 Tel: +65-6270-0110