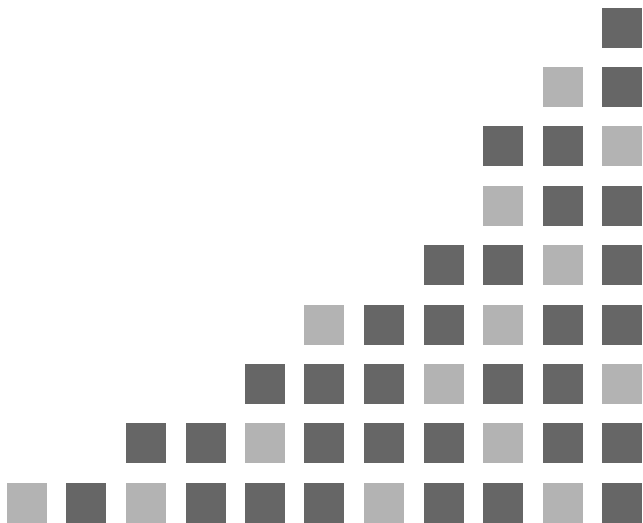


Panasonic

SDTI Interface Board

AJ-**YAC150P**

Operating Instructions



Cautions

- Do not touch this product with wet hands.
- Do not drop this product or subject it to strong impact.
- Do not remodel this product. Doing so may cause malfunctioning.

The AJ-YAC150P is an SDTI interface board for the AJ-HD150. Consult your dealer before attempting to install it into the AJ-HD150.

Features

AJ-YAC150P main unit

The AJ-YAC150P is an SDTI interface board for the AJ-HD150.

By installing this board into the AJ-HD150, it is possible to input and output digital data using the SDTI format *1 (compression digital interface).

*1 SDTI (Serial Data Transport Interface) complies with the SMPTE305M standard.

The data stream format complies with the SMPTE312M standard.

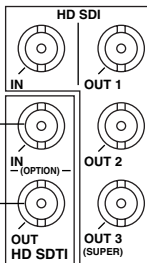
Connection area

Serial digital input connector (BNC×1)

1. Input: Dedicated SDTI input

Serial digital output connector (BNC×1)

2. Output: Dedicated SDTI output



Contents

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Specifications

■ Main unit

Dimensions (W×H×D):

6"×5-7/8"×13/16" (152×148×20 mm)

Weight:

0.5126 lb (233 g)

■ Video audio input connector

Serial digital input connector:

BNC×1

SDTI IN: Dedicated SDTI input connector

Compliant with SMPTE305M/SMPTE321M standards.

■ Video audio output connector

Serial digital output connector:

BNC×1

SDTI OUT: Dedicated SDTI output connector

Compliant with SMPTE305M/SMPTE321M standards.

Installing the AJ-YAC150P board

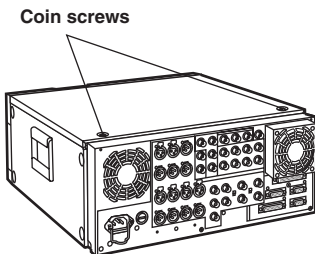
Consult your dealer before attempting to install the digital video interface board.

The software versions for the VTR unit need to be upgraded. Check to see if the proper versions are running.

AV DV REC	Ver.1.07 and up
DV PB	Ver.1.03 and up
I/F	Ver.1.04 and up
FRONT	Ver.1.02 and up
SYSCON	Ver.1.05 and up
SERVO	Ver.1.03 and up

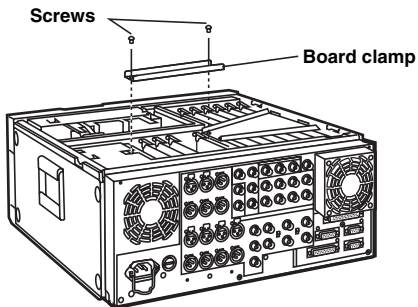
This board must be installed in the AJ-HD150 in order for it to be used. Follow the procedure described below.

1. Disconnect the power cord from the main unit.
2. Remove the two coin screws to remove the top panel from the main unit.



Installing the AJ-YAC150P board

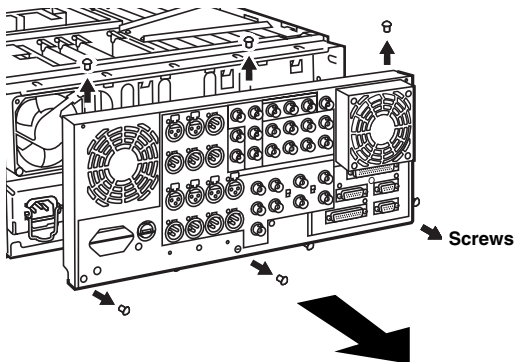
3. Remove the two screws to remove the board clamp.



4. Remove the nine screws to remove the rear panel.

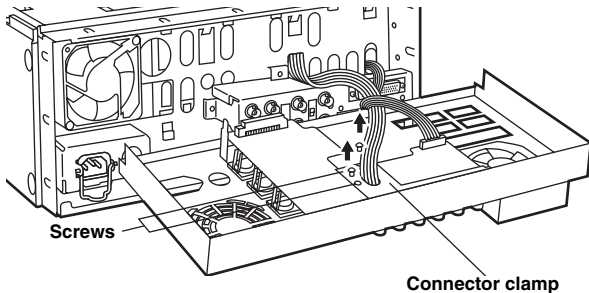
<Note>

- Exercise caution when handling the bundled wires from the main unit side.

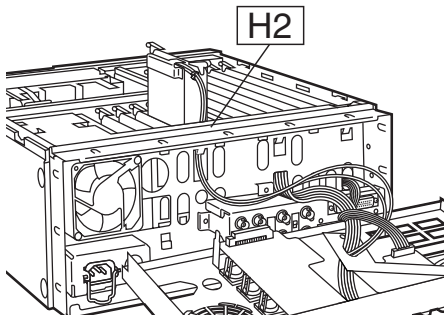


Installing the AJ-YAC150P board

5. Remove the two screws, then remove the connector clamp on the rear panel.



6. Pass the two coaxial cables through the holes in the side of the slot marked "H2" on the main unit side to the rear panel end.

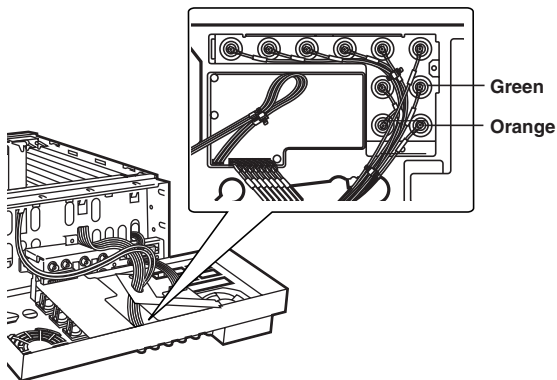


Installing the AJ-YAC150P board

7. Connect the coaxial cables to the BNC connectors specified on the rear panel.

<Notes>

- Take care not to disconnect the cables which have already been attached.
- Pass the cables through the hole in the connector clamp, and connect them.
- Bundle the cables together using the binder which is packed with the board.

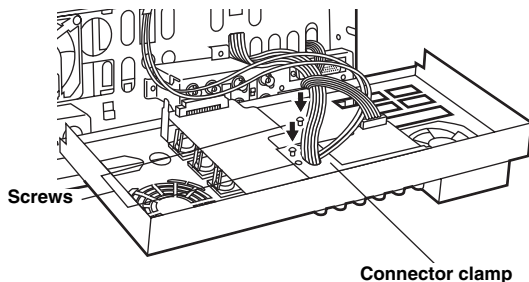


Installing the AJ-YAC150P board

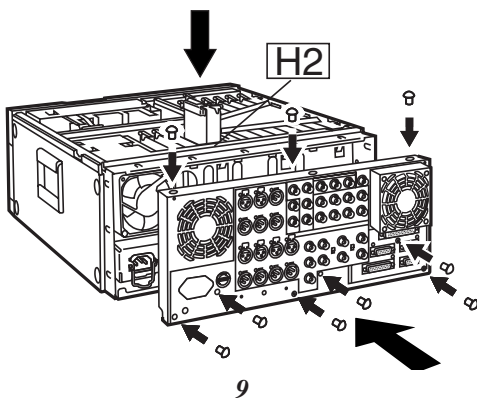
8. Attach the connector clamp on the rear panel using the two screws.

<Note>

- Take care not to pinch the cables between the connectors and connector clamp.

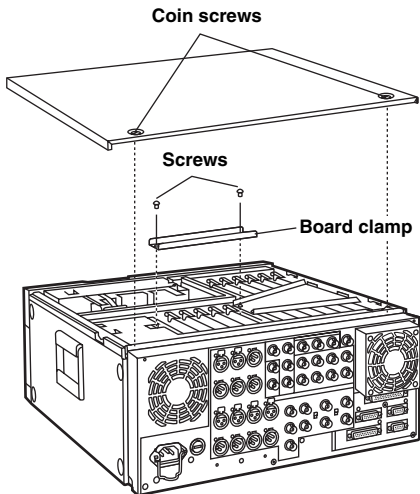


9. Insert the SDTI board into the opening marked "H2" on the main unit side, and attach the rear panel using the nine screws.



Installing the AJ-YAC150P board

- 10.** Attach the board clamp using the two screws, and secure the top panel to the main unit using the two coin screws.



SDTI input operations

SDTI input connector

This connector is used exclusively for SDTI input signals.

To select SDTI as the input

Select SDTI as the menu item No.600 (VIDEO IN SEL) setting.

To select the time code

To select the time code of the SDTI input signal, set the TC INT/EXT switch to EXT, and select SLTC or SVITC as the menu item No.507 (EXT TC SEL) setting.

<Notes>

- When SDTI has been selected as the input signal, the SDTI signal is selected for both the audio and video signals.
- No adjustments can be performed for the audio and video signals in the SDTI input signals.
- Only SDTI signals in the DVCPRO HD (100 Mbps) format selected by menu item No.020 (SYS FORMAT) can be recorded. However, no guarantees can be made either for the recordings made when playback signals at a speed other than the normal (x1) speed are input or for EE pictures. (The sound is muted.)

SDTI input operations

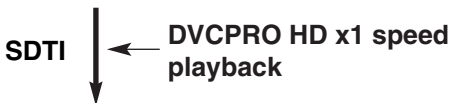
Formats supporting signal reception

(When the setting for SYS FORMAT at the receiving deck matches the format selected for the data to be transmitted)

Sending



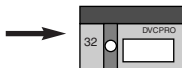
(AJ-HD150
with SDTI)



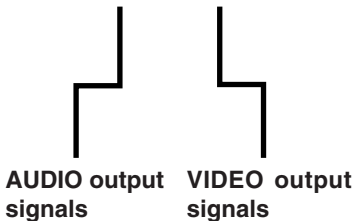
Receiving



(AJ-HD150
with SDTI)



Signals
can be
recorded



AUDIO output
signals

VIDEO output
signals



Speaker



Monitor

SDTI output operations

SDTI output connector

This connector is used exclusively for SDTI output signals.

<Notes>

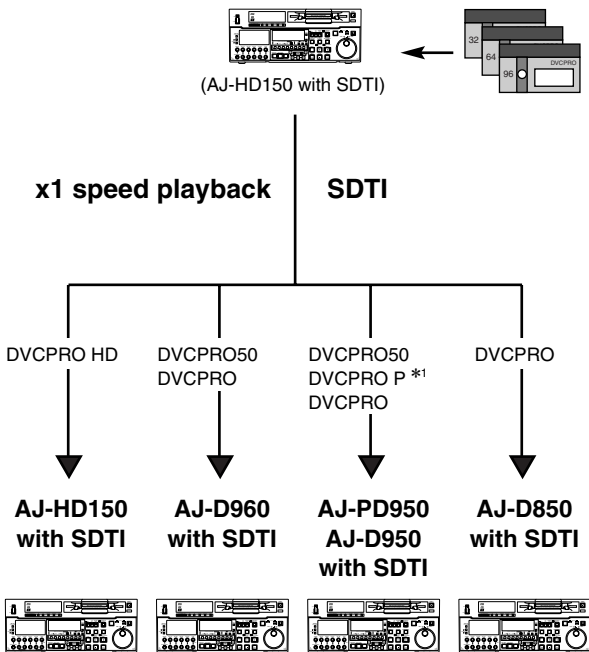
- When playing back a tape in the DVCPRO (25 Mbps), DVCPRO50 (50 Mbps), DVCPRO P (50 Mbps) or DVCPRO HD (100 Mbps) format, the signals will be output in the same format as the one in which the recording was made on the tape.
- DV compressed signals (see *¹) will be output as the SDTI output signals when a DV or DVCAM format tape is played back.
- No adjustments can be performed for the audio and video signals in the SDTI output signals.
- During SLOW/STILL playback, unprocessed audio and video signals will be output as the SDTI output signals. If these audio and video signals are monitored on another component, they may differ from the audio and video signals which are played back on the AJ-DH150.
- SDTI signals are not output when the field frequency is 60 Hz.

*¹ These signals comply with the IEC6134-2 standard.

SDTI output operations

Formats supporting signal transmission

Sending



*1 The DVCPRO P format is used only with the AJ-PD950.

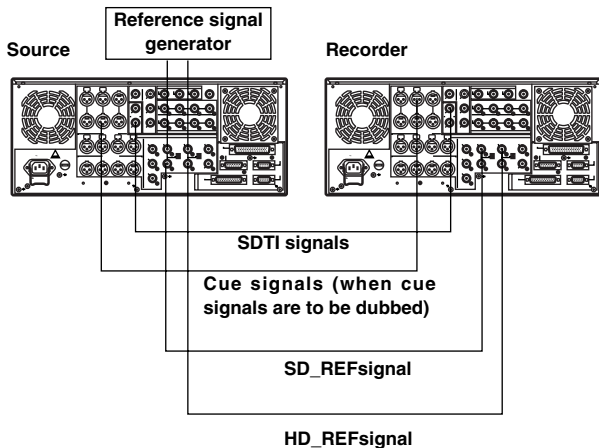
Precautions for using SDTI

Bear in mind the following precautions when using SDTI.

- It is possible to conduct recording operations for the SDTI input signals but only for transmission at the x1 speed and only in the DVCPRO HD (100 Mbps) format which has been selected as the menu item No.020 (SYS FORMAT) setting.
- Editing operations involving the SDTI cannot be performed.
- SDTI dubbing cannot be conducted for tapes recorded in the DV or DVCAM format.
- Cue signals cannot be transmitted using SDTI. To dub them, connect a separate cable for use with these signals. In this case, the selection established by the menu item No.730 (REC CUE) setting is rendered invalid, and the setting is fixed at the cue signal input.
- No guarantees are made for the video signal output when a tape on which SLOW playback signals have been input by SDTI and recorded is replayed in the SLOW mode. (The sound is muted.)

Precautions for using SDTI

Connections using two AJ-HD150 units



Setup menu

When the board is installed in the VTR, the setup menu shown below can be used.

USER menu

<VIDEO>

Item		Setting		Description of setting
No.	Super-imposed display	No.	Super-imposed display	
600	VIDEO IN SEL	0000 <u>0001</u> 0002	INT SG <u>SDI</u> SDTI	For selecting the (video) signal which is to be input. 0: The internal signal selected by VIDEO INT SG is generated. 1: The serial video signal which has been input to the HD SDI IN connector is selected. 2: The serial compressed signal which has been input to the SDTI IN connector is selected.

<Note>

- When SDTI has been selected as the setup menu item No.600 (VIDEO IN SEL) setting, the selection established by the menu item No.700 (AUDIO IN SEL) setting is rendered invalid, and the audio setting is also fixed at the SDTI input.

The underlining above indicates the factory settings.

Warning messages

The following warning messages will be additionally provided when the board has been installed in the VTR. They are indicated on the mode display when "T&S&M" has been selected as the setup menu item No.006 (DISPLAY SEL) setting.

Monitor screen display (counter display)	Description	Operation
UNKNOWN SIG	This message appears when the SDTI input signals are not in the DVCPRO or DV format.	Recording operations cannot be performed.
NO MATCH SIG	This message appears when the format of the SDTI input signals does not match the SYS format.	Recording operations cannot be performed.
NOT1X100M SIG	This message appears when the SDTI input signals are not x1 speed transfer signals in the DVCPRO HD (100 Mbps) format.	Recording operations cannot be performed.
INVALID VIDEO SIG	This message appears when the compressed video signals in the SDTI input signals are irregular signals.	Operation continues. (See *1)
INVALID AUDIO SIG	This message appears when the audio signals in the SDTI input signals are irregular signals.	Operation continues. (See *2)
INVALID TC SIG	This message appears when the time code signal in the SDTI input signals is an irregular signal.	Operation continues. (See *3)

*1 This warning appears only when a recording operation is in progress.

When it appears, nothing will be recorded on the tape and only the erasure operation will be performed.

*2 This warning appears only when a recording operation is in progress.

When it appears, the audio signals will be muted and recorded.

*3 This warning appears only when a full EE operation with the REC button pressed is in progress.

Panasonic

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