

# AJ-VNC150P Encoder/Decoder Board for DVCPRO HD Bank Data

This optional board is installed in the AJ-HD150P digital HD video cassette recorder to enable V-ANC (Vertical Ancillary) data to be recorded in the VAUX (Video Auxiliary Data) area of the DVCPRO HD format and played back.

## Features

- This optional board makes it possible to record V-ANC data on HD-SDI in the VAUX (Video Auxiliary Data) area of the DVCPRO HD format and play it back.
- Formats supported: 1080i (59.94 Hz) recording and playback  
720p (59.94 Hz) recording and playback

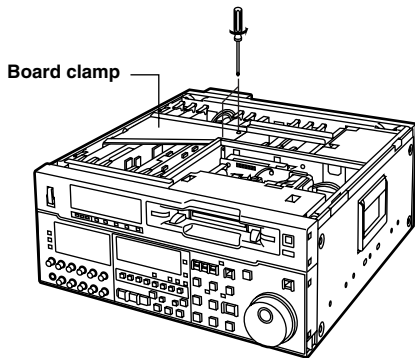
## Installation

**Consult your dealer about installing this board.  
The software versions for the AJ-HD150 need to be upgraded.**

**Check to see if the proper versions are running.**

I/F	Ver. 1.04 and up
SYSCON	Ver. 1.05 and up
DV_PB	Ver. 1.03 and up
AV_DV_REC	Ver. 1.07 and up
SERVO	Ver. 1.03 and up
SDI	VS13351D and up

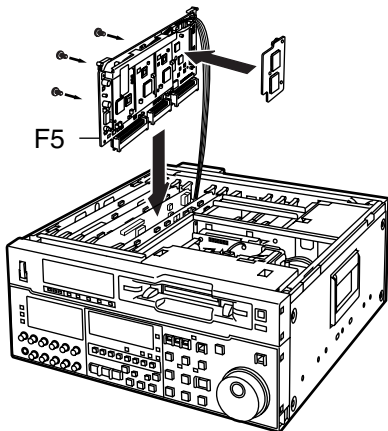
1. After turning off the power of the main unit (AJ-HD150), remove the top cover followed by the board clamp.



2. Attach the AJ-VNC150P board to the board in slot F5 of the main unit.

**<Note>**

Push the coaxial cable into the space between the F5 and F6 boards.



3. Install the board clamp, and attach the top panel.

## Recording operation

1. Detect the V-ANC data packets which have been multiplexed in the following range in the HD-SDI Y stream.  
L9 to L20, L571 to L583 for 1080i/59.94 Hz  
L9 to L25 for 720p/59.94 Hz  
**<Note>**  
The H-ANC data packets are not detected.
2. Record the V-ANC data packets in the VAUX area of the DVCPRO HD format in sequence starting with the line that comes first up to the capacity specified below.  
1080i/59.94 Hz: 5760 words/frame  
720p/59.94 Hz: 2880 words/frame  
**<Note>**  
An input data packet which has been input after the rated capacity has been reached is not recorded or played back.
3. The HD-SDI video signals are also recorded at the same time.  
**<Note>**  
It is not possible to record or edit the V-ANC data alone.

## Playback operation

1. When the VTR is in any of the following operation modes, the V-ANC data packets are multiplexed on the HD-SDI Y stream and played back at the same time as the video signals.
  - Normal playback mode
  - Simultaneous playback mode
  - Edit playback mode
  - EE mode**<Notes>**
  - If the VTR is in any other mode such as FF, REW, JOG or VAR, the V-ANC data is muted, and only the video signals are played back.
  - It is not possible to play back the V-ANC data alone.
2. The recorded V-ANC data packets are multiplexed on the same lines as the ones on which they were previously multiplexed.  
**<Note>**  
During playback involving format conversion, the V-ANC data is muted, and only the video signals are played back.

## Specifications

### Dimensions (W×H):

3-1/4"×3-15/16" (81.5×100.0 mm)

### Input/output interface:

V-ANC data packet Y stream

### Formats supported:

1080i (59.94 Hz/60 Hz) recording and playback

720p (59.94 Hz/60 Hz) recording and playback

### Capacity:

5760 word/frame for 1080i (59.94 Hz/60 Hz)

2880 word/frame for 720p (59.94 Hz/60 Hz)