

SONY®

DIGITAL VIDEOCASSETTE RECORDER

DVW-A500/500

DVW-A500P/500P

ANALOG COMPOSITE DECODER BOARD

BKDW-505

BKDW-506

AUDIO PROGRAM PLAY BOARD

BKDW-507

PARALLEL (50P) INTERFACE KIT

BKDW-509

CONTROL PANEL EXTENSION KIT

BKDW-510

CONTROL PANEL CASE

BKDW-511

CONTROL PANEL

BKDW-514

Digital BETACAM™

OPERATION MANUAL English

1st Edition (Revised 6)

Serial No. 10001 and Higher (DVW-A500)

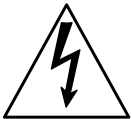
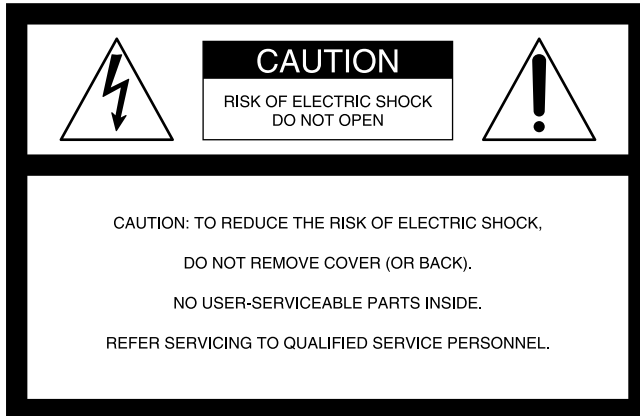
Serial No. 10001 and Higher (DVW-A500P)

Serial No. 10001 and Higher (DVW-500)

Serial No. 10001 and Higher (DVW-500P)

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol 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.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in the United Kingdom

WARNING


THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

For the customers in the USA

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

WARNING: Using this unit at a voltage other than 120 V may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

For the customers in Europe (for the DVW-A500P/500P)

This product with the CE marking complies with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European standards:

- EN60065: Product Safety
- EN55103-1: Electromagnetic Interference (Emission)
- EN55103-2: Electromagnetic Susceptibility (Immunity)

This product is intended for use in the following Electromagnetic Environment: E4 (controlled EMC environment, ex. TV studio).

2-4. Connector Panel

13 ANALOG AUDIO OUTPUT connectors (XLR-3-32)

Output up to five analog audio signal lines (channel 1 to 4 and cue).

14 CONTROL PANEL connector (15-pin)

Connects the control panel using the 15-pin cable supplied with the optional BKDW-510 Control Panel Extension Kit when using the control panel as a remote controller.

15 REMOTE 1-IN (9P)/OUT (9P) connectors (D-sub 9-pin)

Connect to another DVW-A500/500 series VTR or D-1, D-2, or Betacam SP VTR via a 9-pin remote control cable. Used when you edit using two VTRs and the BVE-900/910/2000/9000/9100 editing control unit. The REMOTE 1-IN and OUT connectors can be used to make a bridge connection.

16 MONITOR OUTPUT connectors (XLR-3-32)

Output signals to the audio monitor. These connectors output two signal lines: L and R. Select the signals to be output with the MONITOR SELECT button and the AUDIO INPUT/MONITOR SELECT buttons.

You can make setting to enable adjustment of the volume level with the PHONES level control of the upper control panel.

Refer to “1-9. Switch Settings on the Connector Panel and Boards” in the Installation Manual.

17 VIDEO CONTROL connector (D-sub 15-pin)

Connects to the optional BVR-50/50P remote control unit to enable remote control of the video processor.

Before connecting the remote control unit, turn off the power of the VTR.

18 RS232C connector (D-sub 25-pin)

Accepts or sends the RS-232C remote control signal and/or VTR status data from/to the external equipment. When this connector is being used for communication, the RS-232C indicator on the upper control panel lights.

19 PARALLEL I/O (50P) connector (D-sub 50-pin, with optional BKDW-509)

Inputs an external remote control signal.

For details, refer to the Installation Manual.

20 AUDIO OUTPUT (AES/EBU) connectors (XLR-3-32)

Output a maximum of two lines (four channels: channels 1/2 and 3/4) of AES/ EBU format digital audio signals.

21 TIME CODE OUT connector (XLR-3-32)

Outputs one of the following time codes according to the VTR operation mode.

In playback mode: Playback time code.

In record mode: Time code generated by the internal time code generator, or that input to the TIME CODE IN connector.

22 TIME CODE IN connector (XLR-3-31)

When recording a time code supplied from external equipment, this connector accepts the time code signal.

Connect to the time code output terminal of the external equipment.

Specifications

General

Power requirements	100 to 240 VAC \pm 10 %, 50/60 Hz
Power consumption	DVW-A500/A500P: 540 VA (240W) DVW-500/500P: 480 VA (220W)
Peak inrush current	
(1) Power ON, current probe method:	25A (100V), 36A (240V)
(2) Hot switching inrush current, measured in accordance with European standard EN55103-1:	10A (230V)
Operating temperature	+5°C to +40°C (+41°F to +104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Humidity	25 to 80% (relative humidity)
Mass	DVW-A500/A500P: 35 kg (77 lb) DVW-500/500P: 33 kg (73 lb)
Dimensions	427 \times 237 \times 520 mm (w/h/d) (16 ³ / ₄ \times 9 ³ / ₈ \times 20 ¹ / ₂ inches)
Recording format	Digital Betacam
Tape speed	Digital Betacam: 96.7 mm/s Betacam playback: 118.6 mm/s (DVW-A500) 101.5 mm/s (DVW-A500P)
Digital record/playback time	124 minutes with BCT-D124L
Analog Betacam playback time	DVW-A500: 90 minutes with BCT-90ML _A cassette DVW-A500P: 100 minutes with BCT-90ML _A cassette
Fast forward/rewind time	Approx. 3 minutes with BCT-D124L
Search speed	Shuttle mode: Digital Betacam: Still to approx. \pm 50 times normal playback speed Betacam playback: Still to \pm 35 (for DVW-A500) Still to \pm 42 (for DVW-A500P) Variable mode: -1 to +3 times normal playback speed Jog mode: 0 to \pm 1 or \pm 3 times normal playback speed (selectable in setup menu)
Dynamic Tracking range	-1 to +3 times normal playback speed
Servo lock time	0.5 seconds or less (from standby on)
Load/unload time	6 seconds or less
Recommended tapes	Digital Betacam cassette (S, L) BCT-D6/D12/D22/D32/D40/D34L/D64L/D94L/D124L or equivalent Betacam/Betacam SP cassette (S, L) for playback with DVW-A500/A500P

Specifications

Remote connectors

CONTROL PANEL	D-sub 15-pin, female
REMOTE 1-IN	D-sub 9-pin, female
REMOTE 1-OUT	D-sub 9-pin, female
RS232C	D-sub 25-pin, female
VIDEO CONTROL	D-sub 15-pin, male (for optional BVR-50/50P)
REMOTE PARALLEL I/O (50P)	D-sub 50-pin, female (with optional BKDW-509)

Accessories supplied

- AC power cord (1)
- PSW 4 × 16 screws for rack mounting (4)
- Operation Manual (1)
- Installation Manual (1)
- Maintenance Manual Part 1 (1)

Optional accessories

BKDW-505/506	Analog Composite Decoder Board (NTSC/PAL)
BKDW-507	Audio Program Play Board
BKDW-509	Parallel (50P) Interface Kit
BKDW-510	Control Panel Extension Kit
BKDW-511	Control Panel Case
BKDW-514	Control Panel
BVR-50/50P	TBC Remote Controller
RMM-110	Rack Mount Adaptor
ECD-3C/10C/30C	AES/EBU Digital Audio Cable
BCT-5CLN	Cleaning Cassette Tape
RCC-5G	9-pin Remote Control Cable

Design and specifications are subject to change without notice.

DVW-A500/500
DVW-A500P/500P
(UC/EK)
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Communication System Solutions Network Company

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