SONY

HD DIGITAL VIDEOCASSETTE RECORDER

HDW-2000
HDW-M2000
HDW-M2000P
HDW-S2000
HDW-S2000P

HD DIGITAL VIDEOCASSETTE PLAYER

HDW-M2100
HDW-M2100P

Note

The supplied CD-ROM includes Operation Manuals for the HDW series of videocassette recorders and players (English and Japanese versions). For more details, see page 6, “Using the CD-ROM Manual.”

HDCAM Tele-File MEMORY STICK

OPERATION GUIDE English

1st Edition (Revised 3)

WARNING

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

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

THIS APPARATUS MUST BE EARTHED.

AVERTISSEMENT

Afin d'éviter tout risque d'incendie ou d'électrocution, ne pas exposer cet appareil à la pluie ou à l'humidité.

Afin d'écarter tout risque d'électrocution, garder le coffret fermé. Ne confier l'entretien de l'appareil qu'à un personnel qualifié.

CET APPAREIL DOIT ÊTRE RELIÉ À LA TERRE.

VORSICHT

Um Feuergefahr und die Gefahr eines elektrischen Schlages zu vermeiden, darf das Gerät weder Regen noch Feuchtigkeit ausgesetzt werden.

Um einen elektrischen Schlag zu vermeiden, darf das Gehäuse nicht geöffnet werden. Überlassen Sie Wartungsarbeiten stets nur qualifiziertem Fachpersonal.

DIESES GERÄT MUSS GEERDET WERDEN.

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 U.S.A.
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 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: THIS WARNING IS APPLICABLE FOR USA ONLY.
If used in USA, use the UL LISTED power cord specified below.

DO NOT USE ANY OTHER POWER CORD.

Plug Cap	Parallel blade with ground pin (NEMA 5-15P Configuration)
Cord	Type SJT, three 16 or 18 AWG wires
Length	Minimum 1.5 m, Less than 2.5 m (8 ft 3 in)
Rating	Minimum 10 A, 125 V

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

WARNING: THIS WARNING IS APPLICABLE FOR OTHER COUNTRIES.

1. Use the approved Power Cord (3-core mains lead)/ Appliance Connector/Plug with earthing-contacts that conforms to the safety regulations of each country if applicable.
2. Use the Power Cord (3-core mains lead)/Appliance Connector/Plug conforming to the proper ratings (Voltage, Ampere).

If you have questions on the use of the above Power Cord/ Appliance Connector/Plug, please consult a qualified service personnel.

AVERTISSEMENT: CET AVERTISSEMENT EST VALABLE POUR LES AUTRES PAYS.

1. Utiliser un cordon d'alimentation approuvé (conducteur d'alimentation 3 âmes)/connecteur d'appareil/prise avec contacts de mise à la terre conforme aux règles de sécurité de chaque pays si applicable.
2. Utiliser un cordon d'alimentation approuvé (conducteur d'alimentation 3 âmes)/connecteur d'appareil/prise conforme aux valeurs nominales (tension, ampérage) correctes.

S'adresser à un personnel de service qualifié pour toute question concernant l'emploi du cordon d'alimentation/ connecteur d'appareil/prise ci-dessus.

WARNUNG: DIESE WARNUNG GILT FÜR ANDERE LÄNDER.

1. Verwenden Sie Netzkabel (dreiadrig), Geräteanschlüsse und Netzkabelstecker mit Masseleitung, die den Sicherheitsrichtlinien des jeweiligen Landes entspricht.
2. Verwenden Sie Netzkabel (dreiadrig), Geräteanschlüsse und Netzkabelstecker mit Masseleitung, die den vor Ort herrschenden Spannungsanforderungen (Spannug, Stromstärke) entsprechen.

Bei Frage über die Eignung und Sicherheit von Netzkabein (dreiadrig), Geräteanschlüssen und Netzkabelsteckern wenden Sie sich bitte an einen qualifizierten Electrotechniker.

For the customers in Europe

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 (HDW-S2000/S2000P)
- EN60950: Product Safety (HDW-2000/M2000/M2000P/ M2100/M2100P)
- EN55103-1: Electromagnetic Interference (Emission)
- EN55103-2: Electromagnetic Susceptibility (Immunity)

This product is intended for use in the following Electromagnetic Environment(s):
E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors) and E4 (controlled EMC environment, ex. TV studio).

Pour les clients européens

Ce produit portant la marque CE est conforme à la fois à la Directive sur la compatibilité électromagnétique (EMC) (89/ 336/CEE) et à la Directive sur les basses tensions (73/23/ CEE) émises par la Commission de la Communauté européenne.
La conformité à ces directives implique la conformité aux normes européennes suivantes:
- EN60065: Sécurité des produits (HDW-S2000/S2000P)
- EN60950: Sécurité des produits (HDW-2000/M2000/ M2000P/M2100/M2100P)
- EN55103-1: Interférences électromagnétiques (émission)
- EN55103-2: Sensibilité électromagnétique (immunité)

Ce produit est prévu pour être utilisé dans les environnements électromagnétiques suivants:
E1 (résidentiel), E2 (commercial et industrie légère), E3 (urbain extérieur) et E4 (environnement EMC contrôlé ex. studio de télévision).

Für Kunden in Europa

Dieses Produkt besitzt die CE-Kennzeichnung und erfüllt die EMV-Direktive (89/336/EMG) der EG-Kommission als auch die Direktive Niederspannung (73/23/EMG).
Angewandte Normen:
- EN60065: Produktsicherheit (HDW-S2000/S2000P)
- EN60950: Produktsicherheit (HDW-2000/M2000/M2000P/ M2100/M2100P)
- EN55103-1: Elektromagnetische Verträglichkeit (Störaussendung)
- EN55103-2: Elektromagnetische Verträglichkeit (Störfestigkeit)

für die folgenden elektromagnetischen Umgebungen:
E1 (Wohnbereich), E2 (kommerzieller und in beschränktem maße industrieller Bereich), E3 (Stadtbereich im Freien) und E4 (kontrollierter EMV-Bereich, z.B. Fernsehstudio).

CAUTION

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquid, such as vases, shall be placed on the apparatus.

ATTENTION

Eviter d'exposer l'appareil à un égouttement ou à des éclaboussures et ne placer aucun objet rempli de liquide, comme un vase, sur l'appareil.

ACHTUNG

Das Gerät ist nicht tropf- und spritzwassersicher, daher dürfen keine mit Flüssigkeiten gefüllten Gegenstände, z. B. Vasen, darauf abgestellt werden.

CAUTION
The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

ATTENTION
Cet appareil n’est pas déconnecté de la source d’alimentation secteur tant qu’il est raccordé à la prise murale, même si l’appareil lui-même a été mis hors tension.

ACHTUNG
Solange das Netzkabel an eine Netzsteckdose angeschlossen ist, bleibt das Gerät auch im ausgeschalteten Zustand mit dem Strommetz verbunden.

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Using the CD-ROM Manual

The supplied CR-ROM includes Operation Manuals for the HDW series of videocassette recorders and players (English and Japanese versions).

CD-ROM System Requirements

The following are required to access the supplied CD-ROM disc.
- Computer: PC with MMX Pentium 166 MHz or faster CPU, or Macintosh computer with PowerPC CPU.
  - Installed memory: 32 MB or more
  - CD-ROM drive: × 8 or faster
- Monitor: Monitor supporting resolution of 800 × 600 or higher

When these requirements are not met, access to the CD-ROM disc may be slow, or not possible at all.

Preparations

The following software must be installed on your computer in order to use the operation manuals contained in the CD-ROM disc.
- Microsoft Internet Explorer Version 4.0 or higher, or Netscape Navigator Version 4.0 or higher
- Adobe Acrobat Reader Version 4.0 or higher

Notes
- If Microsoft Internet Explorer is not installed, it may be downloaded from the following URL: http://www.microsoft.com/ie
- If Netscape Navigator is not installed, it may be downloaded from the following URL: http://home.netscape.com/
- If Adobe Acrobat Reader is not installed, it may be downloaded from the following URL: http://www.adobe.com/products/acrobat/readstep.html

To Read the CD-ROM Manual

To read the operation manual contained in the CD-ROM disc, do the following.

1 Insert the CD-ROM disc in your CD-ROM drive.

A cover page appears automatically in your browser.
If it does not appear automatically in the browser, double click the index.htm file on the CD-ROM disc.

2 Select and click the operation manual that you want to read.

A PDF file of the operation manual opens.

Note
If you lose the CD-ROM disc or become unable to read its content, for example because of a hardware failure, you can do one of the following.
- You can purchase a new CD-ROM disc to replace one that has been lost or damaged. Contact a Sony service representative.
- You can purchase printed versions of the operation manuals. Contact a Sony service representative. When ordering, be sure to specify the part number of the manual you want.

Part No.	Models covered
3-205-317-0X	HDW-2000/M2000/M2000P
3-206-137-0X	HDW-M2100/M2100P
3-854-863-0X	HDW-S2000/S2000P

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- Netscape Navigator is a registered trademark of Netscape Communications Corporation in the United States and other countries.
- Adobe and Acrobat are registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Specifications

General

Recording format (HDW-2000/M2000/M2000P/S2000/S2000P) HDCAM

Power requirements
100 to 240 VAC, 50/60 Hz

Power consumption
2.2 A (220 W), when used without optional devices

Peak inrush current
(1) Power ON, current probe method:
HDW-2000 40 A (240 V), 20 A (100 V)
HDW-M2000/M2000P/S2000/S2000P/M2100/M2100P 50 A (240 V), 14 A (100 V)
(2) Hot switching inrush current, measured in accordance with European standard EN55103-1:
HDW-2000 20 A (230 V)
HDW-M2000/M2000P/S2000/S2000P/M2100/M2100P 25 A (230 V)

Appel de courant de crête
(1) Mise sous tension (ON), méthode de sondage du courant:
HDW-2000 40 A (240 V), 20 A (100 V)
HDW-M2000/M2000P/S2000/S2000P/M2100/M2100P 50 A (240 V), 14 A (100 V)
(2) Mesuré conformément à la norme européenne EN55103-1:
HDW-2000 20 A (230 V)
HDW-M2000/M2000P/S2000/S2000P/M2100/M2100P 25 A (230 V)

Spitzenstrom
(1) Einschaltstrom, Stromsonde:
HDW-2000 40 A (240 V), 20 A (100 V)
HDW-M2000/M2000P/S2000/S2000P/M2100/M2100P 50 A (240 V), 14 A (100 V)
(2) Gemessen in EN55103-1:
HDW-2000 20 A (230 V)
HDW-M2000/M2000P/S2000/S2000P/M2100/M2100P 25 A (230 V)

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 20 to 90%

Mass 23 kg (50 lb 11 oz)

Dimensions (w/h/d)
427 × 194 × 544 mm
(16 7/8 × 7 3/4 × 21 1/2 inches)

Tape transport system

Tape speed HDCAM:
96.7 mm/s (59.94 Hz)
80.6 mm/s (50 Hz)
Digital Betacam:
96.7 mm/s
MPEG IMX:
64.5 mm/s (525/59.94)
53.8 mm/s (625/50)
Betacam SX: 59.6 mm/s
Analog Betacam:
118.6 mm/s (525/59.94)
101.5 mm/s (625/50)

HDCAM record/playback time
124 minutes with BCT-124 HDL (59.94 Hz)
149 minutes with BCT-124 HDL (50 Hz)

Digital Betacam playback time
124 minutes with BCT-D124L

MPEG IMX playback time (HDW-M2000/M2000P/M2100/M2100P)
184 minutes with BCT-184MXL (525/59.94)
220 minutes with BCT-184MXL (625/50)

Betacam SX playback time (HDW-M2000/M2000P/S2000/S2000P/M2100/M2100P)
194 minutes with BCT-194SXLA

Analog Betacam playback time (HDW-M2000/M2000P/S2000/S2000P/M2100/M2100P)
90 minutes with BCT-90MLA (525/59.94)
108 minutes with BCT-90MLA (625/50)

Fast forward/rewind time
Approx. 3 minutes with BCT-124HDL

Search speed
Shuttle mode HDCAM playback:
Still to approx. ±50 times normal playback speed (59.94 Hz)
Still to approx. ±58 times normal playback speed (50 Hz)
Digital Betacam playback: Still to approx. ±50 times normal playback speed
MPEG IMX/Betacam SX playback:
Still to approx. ±78 times normal playback speed
Analog Betacam playback:
Still to ±35 times normal playback speed (525/59.94)
Still to ±42 times normal playback speed (625/50)
Variable speed mode
HDCAM playback: –1 to +2 times normal playback speed

Digital Betacam playback: –1 to +3 times normal playback speed
MPEG IMX playback: –1 to +3 times normal playback speed
Betacam SX playback: –1 to +2 times normal playback speed
Analog Betacam playback: –1 to +3 times normal playback speed

Jog mode: HDW-2000/M2000/M2000P/S2000/S2000P: Still to ±1 times normal playback speed
HDW-M2100/M2100P: Still to ±2 times normal playback speed

Servo lock time: 0.6 (59.94 Hz)/0.7 (50 Hz) second or less (from standby on)

Load/unload time: 6 seconds or less

Recommended tapes
HDCAM cassettes (S, L)
BCT-6HD/12HD/22HD/32HD/40HD
BCT-34HDL/64HDL/94HDL/124HDL
MPEG IMX cassettes (S, L) (for playback only)
Digital Betacam cassettes (S, L) (for playback only)
Betacam SX cassettes (S, L) (for playback only)
Betacam SP cassettes (S, L) (for playback only)
Betacam cassettes (S, L) (for playback only)

Digital video system

Digital video signal system

Sampling frequency
Y: 74.25 MHz
R–Y/B–Y: 37.125 MHz

Quantization: 8 bits/sample
Compression: Coefficient recording system
Channel coding: S-I-NRZI PR-IV
Error correction: Reed-Solomon code

Analog component output

Bandwidth: Y: 0 to 5.75 MHz +0.5 dB/–2.0 dB
R–Y/ B–Y: 0 to 2.75 MHz +0.5 dB/–2.0 dB

S/N ratio: 56 dB or more

K factor (2T pulse)
1% or less

Analog composite output (HDW-M2100/M2100P)

Bandwidth (Y): 0 to 5.75 MHz +0.5 dB/-2.0 dB
S/N ratio: 53 dB or more
Differential gain: 2% or less
Differential phase: 2° or less
Y/C delay: 20 ns or less
K factor (2T pulse)
1% or less
Output SCH phase: Based upon RS-170A/CCIR R.624-3
(Adjustable by using the menu)

Digital audio system

Digital audio (CH1 to CH4) signal format

Sampling frequency
48 kHz (synchronized with video)

Quantization: 20 bits/sample
Wow and flutter: Below measurable level
Headroom: 20 dB (or 18 dB, selectable)
Emphasis: T1= 50 µs, T2=15 µs (on/off selectable in recording mode)

Analog input/output (CH1 to CH4)

A/D, D/A quantization
20 bits/sample

Frequency response
20 Hz to 20 kHz +0.5 dB/ –1.0 dB (0 dB at 1 kHz)

Dynamic range: 95 dB or more (at 1 kHz, emphasis on)
Distortion: 0.05% or less (at 1 kHz, emphasis on, reference level (+4 dBm))
Crosstalk: –80 dB or less (at 1 kHz, between any two channels)

Analog audio (CUE)

Frequency response
100 Hz to 12 kHz ±3 dB

S/N ratio: 45 dB or more (at 3% distortion level)
Distortion: 2% or less (THD, 1 kHz reference level)
Wow and flutter: 0.2% rms or less

Digital Betacam playback

Video

Bandwidth	Y	0 to 5.75 MHz +0.5 dB/–0.5 dB
	R–Y/B–Y	0 to 2.75 MHz +0.5 dB/–0.5 dB
S/N ratio		62 dB or more
K factor		1% or less

Digital Audio (CH1 to CH4)

Frequency response	20 Hz to 20 kHz +0.5 dB/–1.0 dB
Dynamic range	95 dB (at 1 kHz, emphasis on)
Distortion	0.05% rms or less (at 1 kHz, emphasis on)
Wow and flutter	Below measurable level

Analog Audio (cue track)

Frequency response	100 Hz to 12 kHz +3 dB/–3 dB
S/N ratio	45 dB or more (at 3% distortion level)
Distortion	2% or less (THD, 1 kHz, reference level)
Wow and flutter	0.2% rms or less

MPEG IMX playback

Video

Bandwidth	Y	0 to 5.75 MHz +0.5 dB/–3.0 dB
	R–Y/B–Y	0 to 2.75 MHz +0.5 dB/–2.0 dB
S/N ratio		56 dB or more
K factor (2T pulse)		1% or less

Digital audio (CH1 to CH4)

Frequency response	20 Hz to 20 kHz +0.5 dB/–1.0 dB(0 dB at 1 kHz)
Dynamic range	90 dB or more (1 kHz, emphasis on, 16 bits/48 kHz)
Distortion	0.05% or less (1 kHz, emphasis on, reference level (+ 4 dBm))

Betacam SX playback

Video

Bandwidth	Y	0 to 4.5 MHz +0.5 dB/–3.0 dB
	R–Y/B–Y	0 to 2.0 MHz +0.5 dB/–3.0 dB
S/N ratio		56 dB or more
K factor (2T pulse)		1% or less

Audio

Frequency response	20 Hz to 20 kHz +0.5 dB/–1.0 dB (0 dB at 1 kHz)
Dynamic range	90 dB or more (at 1kHz, emphasis on)
Distortion	0.05% or less (at 1 kHz, emphasis on, reference level (+4 dBm))

Analog Betacam playback

Video

		Metal tape	Oxide tape
Bandwidth	Y	30 Hz to 4.5 MHz +0.5 dB/ –4.0 dB	30 Hz to 4.1 MHz +0.5 dB/ –6.0 dB
	R–Y/ B–Y	30 Hz to 1.5 MHz +0.5 dB/–3.0dB	30 Hz to 1.5 MHz +0.5 dB/–3.0 dB
S/N ratio	Y	51 dB or more	48 dB or more
	R–Y/ B–Y	48 dB or more	45 dB or more
K factor (2T pulse)		2% or less	3% or less
LF non-linearity	Y	3% or less	
	R–Y/ B–Y	4% or less	
Y/C delay		20 ns or less	

Audio

		Metal tape	Oxide tape
LNG	Frequency response (at 10 dB below reference level [a])	50 Hz to 15 kHz +1.5 dB/ –3.0 dB	50 Hz to 15 kHz ±3.0 dB
	S/N ratio (at 3% distortion level)	72 dB or more	50 dB or more (Dolby NR off)
	Distortion (THD at 1 kHz reference level [a])	1% or less	2% or less
	Wow and flutter	0.1% rms or less	
AFM	Frequency response (at reference level [a])	20 Hz to 20 kHz +0.5 dB/–2.0 dB	
	S/N ratio (at 3% distortion level)	85 dB or more	
	Distortion (THD at 1 kHz reference level [a])	0.5% or less	

a) Reference level: +4 dBm

Processor adjustment range

Video level ±3 dB/ –∞ to +3 dB selectable
Chroma level ±3 dB/ –∞ to +3 dB selectable
Setup level (59.94 Hz mode)
±30 IRE
Black level (50 Hz mode) (HDW-2000/M2000/M2000P/S2000/S2000P)
±210 mV
Y/C delay (HDW-S2000/S2000P/M2100/M2100P)
±100 ns (for analog Betacam tapes)
Chroma phase ±30°
System phase Sync: ±15 µs
SC: ±200 ns

Input connectors

HDSDI INPUT (HDW-2000/M2000/M2000P/S2000/S2000P)
BNC (1 each for input and for through output to a monitor)
Serial digital (1.485 Gbits/s)
SMPTE 292M
SDTI INPUT (HDW-2000/M2000/M2000P/S2000/S2000P)
BNC (1) (optional)
SMPTE 305M (SDTI)
REF. VIDEO INPUT
BNC (2 in loop through connection)
Black burst or composite sync
0.3 Vp-p, 75 Ω, sync negative
AUDIO INPUT CH1/2/3/4 (HDW-2000/M2000/M2000P/S2000/S2000P)
XLR 3-pin, female (4)
LOW OFF: –60 dBu, high impedance, balanced
HIGH OFF: +4 dBu, high impedance, balanced

HIGH ON: +4 dBm, 600 Ω termination, balanced

CUE IN (HDW-2000/M2000/M2000P/S2000/S2000P)
XLR 3-pin, female (1)
LOW OFF: –60 dBu, high impedance, balanced
HIGH OFF: +4 dBu, high impedance, balanced
HIGH ON: +4 dBm, 600 Ω termination, balanced

AUDIO INPUT(AES/EBU) CH1/2, 3/4 (HDW-2000/M2000/M2000P/S2000/S2000P)
BNC (2)
Complies with AES-3id-1995

TIME CODE IN (HDW-2000/M2000/M2000P/S2000/S2000P)
XLR 3-pin, female (1)
0.5 to 18 Vp-p, 10 kΩ, balanced

Output connectors

HDSDI OUTPUT
BNC (3 including 1 for character superimposition)
Serial digital (1.485 Gbits/s)
SMPTE 292M

SDTI OUTPUT
BNC (2) (optional)
SMPTE 305M (SDTI)

COMPONENT VIDEO OUTPUT
BNC (3 for 1 set)
Y: 1.0 Vp-p, Sync negative
R–Y/B–Y: 0.7 Vp-p, 75 Ω, with 100% or 75% color bar selectable

COMPOSITE VIDEO OUTPUT
BNC (3 including 1 for character superimposition)
1.0 Vp-p, 75 Ω, Sync negative

SDI OUTPUT
BNC (3 including 1 for character superimpositon)
Serial digital (270 Mbits/s)
SMPTE 259 M

AUDIO OUTPUT CH1/2/3/4
XLR 3-pin, male (4)
+4 dBm at 600 Ω load, low impedance, balanced

AUDIO OUTPUT (AES/EBU) CH1/2, 3/4, 5/6, 7/8
BNC (4)
Complies with AES-3id-1995
(CH1/2 and CH3/4 only for HDW-2000/S2000/S2000P)

CUE OUT
XLR 3-pin, male (1)
+4 dBm at 600 Ω load, low impedance, balanced

MONITOR OUTPUT (L/R)
XLR 3-pin, male (2)
+4 dBm at 600 Ω load, low impedance, balanced

TIME CODE OUT
XLR 3-pin, male (1)
2.2 Vp-p, low impedance, balanced

PHONES
JM-60 stereo phone jack
–∞ to –12 dBu at 8 Ω load, unbalanced

Remote connectors

CONTROL PANEL
10-pin (2), female
Front/rear selectable

REMOTE 1-IN(9P)
D-sub 9-pin, female

REMOTE 1-OUT(9P)
D-sub 9-pin, female

RS-232C
D-sub 9-pin, male

VIDEO CONTROL(15P)
D-sub 15-pin, male (for optional BVR-50/50P)

VIDEO CONTROL(9P)
D-sub 9-pin, female (for optional HKDV-900)

REMOTE 2 PARALLEL I/O(50P)
50-pin, female

Memory card insertion slot

PCMCIA (HDW-2000/M2000/M2000P/M2100/M2100P)

Memory stick slot

Memory stick (8 to 128 MB)

Accessories supplied

PSW 4 × 16 screws for rack mounting (4)
Installation Manual (1)
Operation Manual (CD-ROM) (1)
Operation Guide (1)
Filter Clamp (Ferrite core)
HDW-2000/M2000/M2000P/S2000/S2000P (6)
HDW-M2100/M2100P (4)

Optional accessories

RCC-5G 9-pin remote control cable
BVR-50/50P Video Remote Control Unit
HKDV-900 Video Remote Control Unit
RMM-131 Rack Mount Adaptor
BCT-HD12CL Cleaning Cassette Tape
HKDW-101 Control Panel
HKDW-102 SDTI Interface Board
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extension Kit
AC power cord
- For customers in the U.S.A. and Canada
  Part No. 1-557-377-11
  Plug holder 3-613-640-01
- For customers in the United Kingdom
  Part No. 1-782-165-11
  Plug holder 3-613-640-01
- For customers in European countries other than the United Kingdom
  Part No. 1-782-164-11
  Plug holder 3-613-640-01

Design and specifications are subject to change without notice.

To prevent electromagnetic interference from portable communications devices
The use of portable telephones and other communications devices near this unit can result in misoperations and interference with audio and video signals.
It is recommended that portable communications devices near this unit be powered off.

The material contained in this manual consists of information that is the property of Sony Corporation and is intended solely for use by the purchasers of the equipment described in this manual.
Sony Corporation expressly prohibits the duplication of any portion of this manual or the use thereof for any purpose other than the operation or maintenance of the equipment described in this manual without the express written permission of Sony Corporation.

HDW-2000/M2000/M2000P/
S2000/S2000P
HDW-M2100/M2100P
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Sony Corporation
B & P Company

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