

Power supply:

For Asia and the Middle East
AC 220 V to 240 V, 50/60 Hz
For Australia and New Zealand
AC 220 V to 240 V, 50 Hz

Power consumption:

Approx. 26 W

Standby mode:

		Display On	Display Off
Quick Start On	Approx.	7.0 W	6.8 W
Quick Start Off	Approx.	2.6 W	2.5 W

Recordable discs:

DVD-RAM:	Ver. 2.0 Ver. 2.1/3X-SPEED DVD-RAM Revision 1.0 Ver. 2.2/5X-SPEED DVD-RAM Revision 2.0
DVD-R:	for General Ver. 2.0 for General Ver. 2.0/4X-SPEED DVD-R Revision 1.0 for General Ver. 2.x/8X-SPEED DVD-R Revision 3.0 for General Ver. 2.x/16X-SPEED DVD-R Revision 6.0 for DL Ver. 3.0 for DL Ver. 3.x/4X-SPEED DVD-R for DL Revision 1.0
DVD-RW:	Ver. 1.1 Ver. 1.1/2X-SPEED DVD-RW Revision 1.0 Ver. 1.2/4X-SPEED DVD-RW Revision 2.0
+R:	Ver. 1.0/2.4X-SPEED Ver. 1.1/4X-SPEED Ver. 1.2/8X-SPEED Ver. 1.3/16X-SPEED for DL Ver. 1.0/4X-SPEED
+RW:	Ver. 1.1 Ver. 1.2/4X-SPEED

Recording system:

DVD-RAM:	DVD Video Recording format
DVD-R:	DVD-Video format
DVD-R DL (Dual Layer):	DVD-Video format
DVD-RW:	DVD-Video format
+R	
+R DL (Double Layer)	
+RW	

Recording time:

Max. 8 hours (using 4.7 GB disc)	
XP: Approx. 1 hour	SP: Approx. 2 hours
LP: Approx. 4 hours	EP: Approx. 6 hours or 8 hours

Playable discs:

DVD-RAM:	DVD Video Recording format
DVD-R:	DVD-Video format, DivX
DVD-R DL (Dual Layer):	DVD-Video format
DVD-RW:	DVD-Video format, DVD Video Recording format
+R	
+R DL (Double Layer)	
+RW	
DVD-Video, DVD-Audio	
CD-Audio (CD-DA), Video CD	
CD-R/CD-RW (CD-DA, Video CD, DivX, MP3, JPEG)	

Optical pick-up:

System with 1 lens, 2 integration units
(662 nm wavelength for DVDs, 780 nm wavelength for CDs)

LASER specification:

Class 1 LASER Product	
Wave Length:	780 nm (CDs) 662 nm (DVDs)
Laser Power:	No hazardous radiation is emitted with the safety protection

Television system:

TV system: PAL system, 625 lines, 50 fields
NTSC system, 525 lines, 60 fields

Antenna reception input:

	For Asia and the Middle East
VHF:	CH R1 to R12 (PAL-DK, SECAM-DKK1) E2 to E12 (PAL-BGH, SECAM-BG) CH 1 to 12 (PAL-D) 75 Ω
UHF:	CH 21 to 69 (PAL-DK, SECAM-DKK1) E21 to E69 (PAL-BGH, SECAM-BG, PAL-I) CH 13 to 57 (PAL-D) 75 Ω
CATV:	CH 44 MHz to 470 MHz (PAL-DK, SECAM-DKK1) CH S01 to S05, M1 to M10, U1 to U10, S21 to S41 (PAL-BGH, SECAM-BG) (PAL-D) 75 Ω
	For Australia and New Zealand
VHF:	CH 0 to 12 (Australia), CH 1 to 11 (NZ), 75 Ω
UHF:	CH 28 to 69 (Australia), CH 21 to 69 (NZ), 75 Ω
CATV:	45 MHz to 470 MHz (Australia), 44 MHz to 470 MHz (NZ), 75 Ω

Video system:

Recording system: (for DVD)

	MPEG2 (Hybrid VBR)	
Input:	LINE (pin jack)×2	1.0 Vp-p; 75 Ω
	S connector×2	Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω

Output:

	LINE (pin jack)×2	1.0 Vp-p; 75 Ω
(for DVD PRIORITY)	S connector×1	Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω

Component video output:

(for DVD PRIORITY)	Y, Pb, Pr ×1	Y: 1.0 Vp-p; 75 Ω
	(480i/480p) NTSC	Pb: 0.7 Vp-p; 75 Ω
	(576i/576p) PAL	Pr: 0.7 Vp-p; 75 Ω

Audio system:

Recording system: (for DVD)

	Dolby Digital (2 ch)
Analogue input:	LINE (pin jack)×2 Reference input: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Input impedance: 22 kΩ
Analogue output:	LINE (pin jack)×2 Reference output: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Output impedance: 1 kΩ (Load impedance: 10 kΩ)

Number of channels: (for DVD)

Recording: 2 channels
Playback: 2 channels

Number of track: (for VHS)

Hi-Fi: 2 track
Normal: 1 track

Digital Output:

(for DVD PRIORITY) Digital audio optical output connector×1
(PCM, Dolby Digital, DTS)

VHS

Recording format:	VHS Video Cassette System Standard with FM audio
Heads:	4 Helical Scan Heads for Video 2 Helical Scan Heads for FM audio 1 Fixed Head for Normal audio

Tape speed/Recording time:

SP: 23.39 mm/s, 240 min (with E-240 cassette)
LP: 11.7 mm/s, 480 min (with E-240 cassette)
EP: 7.8 mm/s, 720 min (with E-240 cassette)
FF/REW: Approx. 60 s (with E-180 cassette)
Jet RW: Approx. 50 s (with E-180 cassette)

FF/REW time:

Specifications

DV Input: IEEE 1394 Standard, 4 Pin×1

Region code

For Asia
3
For Australia and New Zealand
4
For the Middle East
2

Clock unit: Quartz-controlled 24-hour digital display

Operating temperature range:
5 °C to 40 °C

Operating humidity range:
10% to 80% RH (no condensation)

Dimensions: Approx. 430 mm (W)×84 mm (H)×343 mm (D)

Mass: Approx. 5.4 kg

DVD (DivX), CD (DivX): DivX 3.11, 4.x, 5.x
GMC (Global Motion Compensation) is not supported.

DVD (DivX), CD (DivX): Common items
Maximum number of folders:
300 Recognizable folders per disc on this unit
(including the root folder)
Maximum number of DivX files:
200 Recognizable DivX files per disc on this unit*1

CD (MP3):
Format: ISO9660 level 1 or 2 (except for extended formats), Joliet
Compatible compression rate:
32 kbps to 320 kbps
Compatible sampling rate:
16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz
This unit is not compatible with ID3 tags.

CD (JPEG):
Format: ISO9660 level 1 or 2 (except for extended formats), Joliet
Compatible pixels:
Between 34 × 34 and 6144 × 4096 pixels
Sub Sampling 4:2:2 or 4:2:0
This unit is not compatible with Motion JPEG.

CD (MP3), CD (JPEG): Common items
Maximum number of folders:
300 Recognizable folders per disc on this unit
(including the root folder)
Maximum number of MP3 files:
3000 Recognizable MP3 files per disc on this unit*1
Maximum number of JPEG files:
3000 Recognizable JPEG files per disc on this unit*1
This unit is compatible with multi-session.
This unit is not compatible with packet writing.

*1 Total number of recognizable files including MP3, JPEG, DivX and other type of files is 4000.

Quick Start for Recording (Quick Start: ON)

1 Sec. Quick Start for Recording on DVD-RAM*2

*2 From the power off state, recording on DVD-RAM starts about 1 second after first pressing the Power button and then sequentially pressing the REC button (Quick Start Mode).

Note

Specifications are subject to change without notice.
Mass and dimensions shown are approximate.