

Ultra HD Blu-ray [GH]

		DP-UB450
Playable Discs		
BD-ROM	Ultra HD Blu-ray/ FULL HD 3D/ BD-Video	Y
BD-RE/ BD-RE DL (Ver.3)	BDAV/ BDMV/ JPEG/ MPO	Y
	MKV(H.264/ HEVC)/ MP4 (H.264/ HEVC), TS (MPEG-2 /H.264/ HEVC), PS(MPEG-2)	Y
	FLAC/ WAV/ ALAC/ AIFF/ DSD/ WMA/ AAC/ MP3	Y
BD-R (Ver.1.3) / BD-R DL (Ver.2)	BDAV/ BDMV/ MKV/ JPEG/ MPO	Y
	MP4 (H.264/ HEVC), TS (MPEG-2 /H.264/ HEVC), PS(MPEG-2)	Y
	FLAC/ WAV/ ALAC/ AIFF/ DSD/ WMA/ AAC/ MP3	Y
DVD	DVD-Video	Y
DVD-R ¹ / DVD-R DL ¹ / DVD-RW ¹	DVD-Video/ DVD Video Recording	Y
	AVCHD/ MKV(H.264/ HEVC)	Y/Y*
	MP4 (H.264/ HEVC), TS (MPEG-2 /H.264/ HEVC), PS(MPEG-2)	(*DVD-R/ DVD-R DL) Y (DVD-R/ DVD-R DL)
	FLAC/ WAV/ ALAC/ AIFF/ DSD/ WMA/ AAC/ MP3	Y (DVD-R/ DVD-R DL)
	JPEG/ MPO	Y (DVD-R/ DVD-R DL)
+R ¹ / +R DL ¹ / +RW ¹	Video/ AVCHD	Y
CD, CD-R/ -RW	CD-DA/ DTS-CD	Y
	MKV(H.264/ HEVC)	Y (CD-R/ -RW)
	MP4 (H.264/ HEVC), TS (MPEG-2 /H.264/ HEVC), PS(MPEG-2)	Y (CD-R/ -RW)
	FLAC/ WAV/ ALAC/ AIFF/ WMA/ AAC/ MP3	Y (CD-R/ -RW)
	JPEG/ MPO	Y (CD-R/ -RW)
Audio System		
Dolby Audio (Dolby Digital/ Dolby Digital Plus/ Dolby TrueHD)		Y (Decode and Bitstream Output ²)
DTS-HD Master Audio/ DTS-HD High Resolution Audio		Y (Decode and Bitstream Output ²)
Dolby Atoms/ DTS:X		Y (Bitstream Output ²)
FLAC		Y (Max. 192 kHz/ 24 bit)
WAV		Y (Max. 384 kHz/ 32 bit)
ALAC		Y (Max. 192 kHz/ 32 bit (2ch))
DSD (DFF, DSF)		Y (2.8 MHz (2ch/ 5.1ch), 5.6 MHz (2ch/ 5.1ch), 11.2 MHz (2ch))
AIFF		Y (Max. 384 kHz/ 32 bit (2ch))
SD Memory Card		
Slot		-
Compatible Media		-
Playback	JPEG/ MPO	-
	AVCHD/ AVCHD 3D	-
	MP4	-
USB		
Slot	Front	Y (1)
	Rear	1 (USB 2.0 High Speed)
Playback	FLAC/ WAV/ ALAC/ AIFF/ DSD (DFF, DSF)/ WMA/ AAC/ MP3	Y
	MKV(H.264/ HEVC)/ MP4 (H.264/ HEVC), TS (MPEG-2 /H.264/ HEVC)	Y
	PS (MPEG-2) / AVCHD/ AVCHD 3D	Y
	JPEG/ MPO	Y
High Quality Picture		
HCX Processor for Ultra HD Blu-ray		-
HDR	HDR10+	Y
	Dolby Vision	Y
	Hybrid Log Gamma (HLG)	Y
	HDR Optimiser	-
4K Up-scaling ^{4,5}	60p/ 50p/ 4:4:4 (HDMI2.0)	Y
	24p/ 25p	Y
4K Direct Chroma Up-scaling ⁴		-
4K Networking (4K Video ⁶ Playback/ 4K JPEG Playback ⁴)		Y
4K VOD		-
Picture Type Presets ⁸		-
Block/ Random/ Mosquito Noise Reduction		-
Video on Demand in HD Quality		-
2D-3D Conversion/ 3D Effect Controller		-
Ultra HD Premium		-
THX Certified		-
Deep Colour		Y
x.v.Colour ⁹		Y
High Quality Sound		
TWIN HDMI		Y
Pure Audio on HDMI (HDMI Low Clock Jitter Process)		-
High Quality Network Audio Playback ¹⁰		Y (FLAC/ WAV/ ALAC/ AIFF/ DSD/ WMA/ AAC/ MP3)
High Clarity Sound Premium		-
Digital Tube Sound		-
Surround Re-Master ¹¹		-
Audio D/A Converter		-
Insulator		-

Smart Features		
Viewing Experience Controlled via Voice (Google Assistant/ Amazon Alexa)		-
Unit Display		-
Remote Control		Y (Simple)
Subtitle Position/ Brightness Adjustment		-
HDMI Control 5 (VIERA Link) / HDMI CEC		Y (HDMI CEC only)
Mirroring with Smartphone/ Tablet ^{*12}		-
Internet Apps ^{*13}		-
Web Browser		-
Wireless LAN System		-
Network Contents Playback ^{*10} (Client & Renderer)		Y
External HDD Playback ^{*14}		Y
Network Drive Access		Y
BD-Live ^{TM*15}		Y
Terminal		
HDMI Output		Y (2)
Video Output		-
Optical Output		-
Coaxial Output		Y
Analogue Audio LR Output		-
Analogue Audio 7.1ch Output		-
LAN (Ethernet) Terminal		Y (for Ultra HD Blu-ray, Network Contents Playback ^{*10} , BD-Live ^{TM*15} and Firmware Update)
Others		
Video System		PAL/ NTSC
Power Supply		AC 220-240 V, 50 Hz
Power Consumption	Normal Use	13 W
	Standby (Quick Start Off)	-
	Network Standby On Network Standby Off	0.3 W
HDMI Cable Included		Y
Dimensions, Weight		
Dimensions (W x H x D) ^{*17}		320 x 46 x 193 mm
Weight		1.2 kg

*1 Discs recorded and finalized on recording devices.

*2 HDMI connections and compatible equipment (e.g. AV Receiver) required.

*3 Enabled by software update

*4 For 4K Up-scaling playback a TV with same resolution is required.

*5 For 4K/60p video, a high speed HDMI cable supporting 18 Gbps bandwidth is required.

*6 MP4(4K/25p,30p) bit rate up to 100 Mbps/resolution up to 3840x2160.

*7 Some network content services may not be available in your country.

*8 Ultra HD Blu-ray and Photo (JPG/ MPO) are not supported.

*9 This function is effective only when reproducing AVCHD data recorded with x.v.Color technology. The function cannot be used with BD-ROM or DVD-ROM discs. HDMI connection is

*10 File formats that are not supported by your Network Contents server (DLNA compatible server, etc.) cannot be played.

*11 CD sampling is done at 176.4/88.2 kHz.

*12 A device that supports the Mirroring function and AndroidTM ver. 4.2 or higher is required.

*13 Requires broadband Internet service.

*14 The external HDD with capacities of 4TB or less in processing NTFS/ FAT32 data is supported. Playback is not possible with some external hard disk drives.

*15 To enjoy content, you will need to insert a USB (1GB or more of free space/ sold separately). Requires broadband Internet service.

*16 The analog 2-channel output terminal can also be used as an analog 7.1-channel output terminal.

*17 Excluding the projecting parts.

Specifications are subject to change without notice. All numbers given here are approximate.

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