

SPECIFICATIONS VR-50HD

VIDEO

Processing	4:4:4 (RGB), 10-bit, 4:4:4 (Y/Pb/Pr), 10-bit
Input Connectors	SDI IN 1-4 connectors: BNC type x 4 (INPUT 1-4) * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M, 259M-C. HDMI IN 1-4 connectors: HDMI type A x 4 (INPUT 1-4) * HDCP Supported RGB/COMPONENT IN 1-2 connectors: HD DB-15 type x 2 (INPUT 1-2) COMPOSITE IN 1-2 connectors: BNC type x 2 (INPUT 1-2) * INPUT 1-2: Select SDI, HDMI, RGB/COMPONENT or COMPOSITE using menu.
Output Connectors	HSDI OUT (PGM, AUX) connectors: BNC type x 2 (PGM OUT, AUX OUT) * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M, 259M-C HDMI OUT (PGM, AUX, MULTI-VIEW) connectors: Type A x 3 (PGM OUT, AUX OUT, MULTI-VIEW OUT) * HDCP Supported Analog RGB/HD-Comp.: Mini D-sub 15-pin type x 2 (PGM OUT, AUX OUT)
Input/Output Level and Impedance	Composite (COMPOSITE IN): 1.0 Vp-p 75 ohms Analog RGB (RGB/COMPONENT IN, RGM/COMPONENT OUT): 0.7 Vp-p 75 ohms (H, V: 5 V TTL) Analog HD (RGB/COMPONENT IN, RGB/COMPONENT OUT): 1.0 Vp-p 75 ohms (Sync-Signal: Bi-Level/Tri-Level)
Supported Video Formats	SDI (SDI IN, SDI OUT): 480/59.94i, 576/50i, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p * Conforms to SMPTE 274M, SMPTE 296M, ITU-R BT.601-5.
	HDMI (HDMI IN, HDMI OUT) (*1): 480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p 1024 x 768/60 Hz (*2), 1280 x 720/60 Hz (*2), 1280 x 800/60 Hz (*2), 1280 x 1024/60 Hz (*2), 1400 x 1050/60 Hz, 1920 x 1080/60 Hz
	HDMI (HDMI OUT MULTI-VIEW only) (*1): 1080/59.94p
	Component (RGB/COMPONENT IN, RGB COMPONENT OUT): 480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p
Effects	RGB (RGB/COMPONENT IN, RGB/COMPONENT OUT) (*1): 1024 X 768/60 Hz (*2), 1280 X 720/60 Hz (*2), 1280 X 800/60 Hz (*2), 1280 X 1024/60 Hz (*2), 1400 X 1050/60 Hz, 1920 X 1080/60 Hz
	COMPOSITE (COMPOSITE IN): NTSC, PAL *Note *1 Conforms to CEA-861-E or VESA DMT Version 1.0 Revision 11. *2 Output refresh rate is 75 Hz when frame rate is set to 50 Hz. * The video signal frame rate must match the unit's frame rate setting. * The output format of HDMI and RGB/Component is always the same. When a Video format is selected, component signal is output from the RGB/COMPONENT connector. When a RGB format is selected, RGB signal is output from the RGB/COMPONENT connector.
	USB-VIDEO (USB STREAMING): 480/29.97P, 576/25P, 480/59.94P, 576/50P, 720/29.97P, 720/25P, 720/59.94P, 720/50P, 1080/29.97P, 1080/25P, 1080/59.94P, 1080/50P
Still Image: Windows(R) Bitmap File (.bmp) * Maximum 1920 x 1080 pixels, 24-bit per pixel, uncompressed. * It can be loaded up to 4 files from USB memory.	
Transition: Mix, Cut, Wipe (9 patterns) Composition: PinP, Chrominance Key, Luminance Key Others: Output Fade, Output Freeze, User Logo	

SYSTEM RECOMMENDATIONS

Windows	Windows 8.0 and higher
Mac	OS X 10.7 and higher * When recording data in the HD size, use OS X 10.8.5 or later.
Common	Ivy Bridge Core i5 and higher 8GB Memory or more USB 3.0 (supported USB3.0 Intel Chipset e.g. 7Series)

AUDIO

Audio Processing	Sampling Rate: 24 bits, 48 kHz
Audio formats	SDI (SDI IN, SDI OUT): Linear PCM, 24 bits, 48 kHz, 2 ch * SMPTE 299M, SMPTE 272M-C HDMI (HDMI IN, HDMI OUT): Linear PCM, 24 bits, 48 kHz, 2 ch USB-AUDIO (USB STREAMING): Linear PCM, 16 bits, 48 kHz, 2 ch
Input Connectors	AUDIO IN 1-4 jacks: Combo type (XLR, 1/4-inch TRS phone), balanced, phantom power (DC 48 V, 10 mA Max) AUDIO IN 5-8 jacks (1/4-inch TRS phone type) (LINE 1-2) * AUDIO IN 5 and 7 are mic level capable. (MIC 5, 7) AUDIO IN 9-12 jacks (RCA phono type) (LINE 3-4)
Output Connectors	AUDIO OUT MAIN (L, R) jacks: XLR type AUDIO OUT AUX 1 (L, R) jacks: RCA phono type AUDIO OUT AUX 2/MONITOR (L, R) jacks: 1/4-inch TRS phone type PHONES jack: Stereo 1/4-inch phone type PHONES jack: Stereo miniature type
Nominal Input Level	AUDIO IN 1-4 jacks: -64 to +4 dBu (Maximum input level: +24 dBu) AUDIO IN 5, 7 jacks: -64 to +4 dBu (Maximum input level: +24 dBu) AUDIO IN 6, 8 jacks: +4 dBu (Maximum input level: +24 dBu) AUDIO IN 9-12 jacks: -10 dBu (Maximum input level: +9 dBu)
Input Impedance	AUDIO IN 1-4 jacks: 30 k ohms, AUDIO IN 5-8 jacks: 30 k ohms, AUDIO IN 9-12 jacks: 7 k ohms
Nominal Output Level	AUDIO OUT MAIN L-R jacks: +4 dBu (Maximum output level: +24 dBu) AUDIO OUT AUX 1 jacks: -10 dBu (Maximum output level: +8 dBu) AUDIO OUT AUX 2/MONITOR jacks: +4 dBu (Maximum output level: +24 dBu) Headphones: 72 mW + 72 mW (32 ohms load)
Output Impedance	AUDIO OUT MAIN L-R jacks: 600 ohms, AUDIO OUT AUX 1 jacks: 1 k ohms AUDIO OUT AUX 2/MONITOR jacks: 600 ohms, Headphones: 30 ohms
Residual Noise Level (IHF-A, typ.)	U-92 dBu (All faders: Min) -89 dBu (MAIN) Fader: Unity, Channel faders: Unity only one INPUT1 channel, Preamp gain: Min -60 dBu (MAIN) Fader: Unity, Channel faders: Unity only one INPUT1 channel, Preamp gain: Max * Input 150 ohms terminate * Output Connector: AUDIO OUT MAIN (L, R) jacks, AUDIO OUT AUX 2/ MONITOR jacks
Audio Effects	-100 dBu (All faders: Min) -98 dBu (MAIN) Fader: Unity, Channel faders: Unity only one INPUT1 channel, Preamp gain: Min -74 dBu (MAIN) Fader: Unity, Channel faders: Unity only one INPUT1 channel, Preamp gain: Max * Input 150 ohms terminate * Output Connector: AUDIO OUT AUX 1 (L, R) jacks
	Auto mixing, Anti-feedback, 4-Band EQ, Delay, Compressor, HPF, Noise Gate, Reverb, Limiter, Voice changer, 15-Band EQ
	Channel Effects(common): HPF, Compressor, Noise Gate, 4-Band EQ, Delay Channel Effects(FX Block): Anti-feedback, Voice changer Master Effects: 4-Band EQ, Compressor, Limiter, Reverb, 15-Band EQ

OTHERS

Remote Control	RS-232C connector: D-sub 9 pin type LAN connector: RJ45 100BASE-TX
USB Interface	USB MEMORY port (HOST): USB A type for USB MEMORY(USB flash drive, Still image) USB port (HOST): USB A type(Use for future expansion) USB STREAMING port (DEVICE): USB B type for USB-VIDEO(SuperSpeed/Hi-Speed), USB-AUDIO (Full-Speed)
Other Functions	Preset Memory (8 types), Panel lock function, EDID emulator, Auto switching (Video follows audio), Remote Camera Control
Display	7 inch Graphic color LCD 800 x 480 dots (touch screen)
Power Supply	AC Adaptor, Secondary AC Adaptor DC 9 V to 16 V (XLR-4-32 type)
Current Draw	2.8 A
Power Consumption	67 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	437 (W) x 325 (D) x 125 (H) mm, 17-1/4 (W) x 12-13/16 (D) x 4-15/16 (H) inches
Weight	5.9 kg kg, 13 lbs 1 oz
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor Power cord, Ground Cord