

# SPECIFICATIONS

As of July 2011

## GENERAL

Power Source:	7.2 V DC / 7.9 V DC
Power Consumption:	19.8 W
Operating Temperature:	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity:	10 % to 80 % (no condensation)
Storage Temperature:	-20 °C to 50 °C (-4 °F to 122 °F)
Weight:	2 kg (4.41 lb) (without battery) 2.3 kg (5.07 lb) (with supplied battery)
Dimensions:	214 mm (W) x 88 mm (H) x 200 mm (D) (8-7/16 inches x 3-7/16 inches x 7-7/8 inches) (not including the support legs)
Recording Media:	P2 card
Recording Formats*1:	AVC-Intra 100/AVC-Intra 50/DVCPRO HD/ DVCPRO50/DVCPRO/DV (selectable)
Recording/Playback Time:	*See page 2 for Corresponding Input/Recording Formats
Video Recording Signals:	1080/59.94i, 1080/50i, 1080/23.98p, 1080/24p, 720/59.94p, 720/50p, 480/59.94i, 576/50i
Audio Recording Signals:	AVC-Intra 100/50: 48 kHz, 16 bits, 8 channels/ 24 bits, 4 channels (selectable) DVCPRO HD: 48 kHz, 16 bits, 8 channels DVCPRO50: 48 kHz, 16 bits, 4 channels DVCPRO/DV: 48 kHz, 16 bits, 2/4 channels selectable

## VIDEO (DIGITAL VIDEO)

Sampling Frequencies:	AVC-Intra 100/DVCPRO HD (59.94 Hz): Y: 74.1758 MHz, Pb/Pr: 37.0879 MHz AVC-Intra 100/DVCPRO HD (50 Hz): Y: 74.2500 MHz, Pb/Pr: 37.1250 MHz DVCPRO50: Y: 13.5 MHz, Pb/Pr: 6.75 MHz DVCPRO: Y: 13.5 MHz, Pb/Pr: 3.375 MHz
Quantization:	AVC-Intra 100/AVC-Intra 50: 10 bits DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bits
Video Compression Methods:	AVC-Intra 100/50: MPEG-4 AVC/H.264 Intra Profile DVCPRO HD: DV-based Compression (SMPTE 370M) DVCPRO50/DVCPRO: DV-based Compression (SMPTE 314M) DV: DV Compression (IEC61834-2)
Color Sampling:	AVC-Intra 100: Y: Pb:Pr = 4:2:2
Resolution:	AVC-Intra 100: 1920 x 1080 (1080/59.94i, 1080/50i) 1280 x 720 (720/59.94p, 720/50p) AVC-Intra 50: 1440 x 1080 (1080/59.94i, 1080/50i) 960 x 720 (720/59.94p, 720/50p)

## AUDIO (DIGITAL AUDIO)

Sampling Frequency:	48 kHz (synchronized with video)
Quantization:	16 bits (DVCPRO HD/DVCPRO50/DVCPRO/DV) 16/24 bits selectable (AVC-Intra 100/AVC-Intra 50)
Headroom:	12/18/20 dB (selectable)
De-emphasis:	T1=50 µs, T2=15 µs (auto on/off)

## VIDEO INPUT

Reference Input:	BNC x 1, Auto switching of black burst / HD tri-level sync
SDI input:	BNC x 1

## VIDEO OUTPUT

Video Output:	BNC x 1, SD Analog Composite
SDI Output:	BNC x 1, HD SDI/SD SDI switchable
HDMI Output:	HDMI x 1 (HDMI type A), 3D supported (VIERA link not supported) <b>•When 59.94 Hz of system frequency</b> 1080/59.94i Frame Packing / Side-by-Side selectable (3D only), 720/59.94p Frame Packing / Side-by-Side selectable (3D only), 1080/59.94i, 720/59.94p, 480/59.94p <b>•When 50 Hz of system frequency</b> 1080/50i Frame Packing / Side-by-Side selectable (3D only), 720/50p Frame Packing / Side-by-Side selectable (3D only), 1080/50i, 720/50p, 576/50p <b>•When 23.98 Hz of system frequency</b> 1080/23.98p Frame Packing / Side-by-Side selectable (3D only), 1080/23.98p <b>•When 24 Hz of system frequency</b> 1080/24p Frame Packing / Side-by-Side selectable (3D only), 1080/24p

## AUDIO INPUT

Analog Inputs:	XLR x 2 (CH1, CH2)
SDI Input:	BNC x 1

## AUDIO OUTPUT

SDI Output:	BNC x 1
Monitor Outputs:	Pin jacks x 2, -10 dBV, 600 Ω
Headphone Output:	Stereo mini jack (3.5 mm dia.), 8 Ω, variable level
HDMI Output:	2 channels (linear PCM)
Internal Speaker:	Round x 1 (monaural)

## OTHER INPUT/OUTPUT

Time Code Input:	BNC x 1, 0.5 V[p-p] to 8.0 V[p-p], 10 kΩ
Time Code Output:	BNC x 1, low impedance, 2.0 V ±0.5 V[p-p]
RS-422A Input/Output:	9-pin D-SUB x 1, RS-422A interface
USB 3.0:	Host (Type A) x 1
USB 2.0:	USB 2.0 Devices (Type B) x 1
For connection of 3D REC/PB or SYNC PB modes:	9-pin D-SUB x 1, RS-422A interface USB 2.0 Devices (Type A) x 1
Keyboard:	USB 2.0 (Type A) x 1 (maximum 100 mA)
P2 Card Slot:	P2 Card Slot x 2
SD Card Slot:*2	SD/SDHC Memory Card Slot x 1
LCD Monitor:	87.63 mm (3.45 inches), approx. 921,000 pixels
Included Accessories:	Battery (5400 mAh), Battery charger, AC adaptor, 3D connection label and Software CD-ROM

\*1: 3D recording and playback is possible only in the AVC-Intra codec. \*2: Multi Media Cards cannot be used.

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