

PANASONIC AJ-HD1400 RECORDER

As part of our range of HD ancillary options, the Panasonic AJ-HD1400 HD DVCPRO HD recorder is a compact, portable VTR which offers outstanding versatility and cost performance, records and plays in all of the world's HD broadcasting formats. It provides 720/1080 video format cross conversion and HD/SD down/up conversion. Also providing SD playback functions, the versatile AJ-HD1400 lets you produce video content for a variety of applications in all regions of the world.

The AJ-HD1400 comes equipped with IEEE 1394 and HD-SDI digital input/output, a 9-pin remote interface for assemble/insert editing and can be powered by 12V DC making it perfect for HD aerial filming applications and other field production work.

Technical Specifications

POWER REQUIREMENTS:	AC (100-240) V +/-10%, 50 to 60 Hz DC 12V
POWER CONSUMPTION:	AC - 85W DC 64W
OPERATING TEMPERATURE:	5°C to 40°C (41°F to 104°F)
STORAGE TEMPERATURE:	-20°C to 60°C (-4°F to 140°F)
OPERATING HUMIDITY:	10% to 80% (non dew)
WEIGHT:	8.5KG (18.74lbs)
DIMENSIONS:	214mm x 132mm x 442mm
RECORDING FORMAT:	DVCPRO HD-LP 1080/50i, 60i, 25PsF, 30 PsF
RECORDING VIDEO SIGNAL:	48Hz, 16 bit, 8CH
RECORDING TRACK:	Video: 1080i/720p Audio: 8 channels TC: Subcode area Cue: 1 longitudinal track CTL: 1 longitudinal track
TAPE SPEED:	67.64 mm/s
REC/PLAY TIME:	Max 64 minutes
TAPE:	1/4" metal particle
FF/REW TIME:	Approximately 90 seconds with AJ-HP64ELG
VIDEO SAMPLING FREQUENCY:	Y: 74.25/1.001 MHz Pb/Pr: 37.125/1.001 MHz
QUANTIZATION:	8 bits
COMPRESSION METHOD:	DCT + adaptive quantization
COMPRESSION RATIO:	1/6.7



ERROR CORRECTION:	Reed Solomon product code
BIT RATE:	100 Mbps
AUDIO	
CHANNEL:	8 channels
SAMPLING FREQUENCY:	48kHz
QUANTIZATION:	16 bits
FREQUENCY RESPONSE:	20Hz to 20kHz
DYNAMIC RANGE:	+/- 1.0dB (reference level) More than 85dB (1kHz, emphasis off 'A' weighted Within 0.1% (1kHz, emphasis off, reference level)
DISTORTION:	Less than -80dB (1kHz, between any 2 ch)
CROSS TALK:	Below measurable limit
WOW & FLUTTER:	Below measurable limit
HEADROOM:	20 dB (AJ-HD1400P) / 18dB (AJ-HD1400E)
VIDEO INPUT/OUTPUT	
HD SDI In:	BNC x 1 / SMPTE 292M/296M/299M
HD REFERENCE:	BNC x 2 (loop through) / 75 auto (tri level sync) SD (B.B) auto switching
HD SDI OUT:	BNC x 2, superimpose on/off, SMPTE 292M/296M/299M
SD SDI OUT:	BNC x 1, superimpose on/off, SMPTE 259M-C/272M-A ITU-R BT.656-4
HD COMPONENT OUT:	BNC x 3 (Y/Pb/Pr), superimpose on/off
SD COMPOSITE OUT:	BNC x 2 (Y connector), superimpose on/off (VIDEO 2)