

SPECIFICATIONS

Video standards supported according to the SMPTE 292M and using YCbCr colour encoding. This level of integration and performance has been achieved utilising video processing and compression techniques optimised for reduced power consumption. The 10 bit all digital processing and the high stability crystals eliminate all noise and distortion. The long lasting battery life is a result of the latest power supply technology.

Video

Bit depth 10 bits
 Interface SMPTE 274M, 296M, 260M
 Bit rate 1.485 Gbit/s
 Output impedance 75 Ohm
 Video Connector BNC female
 Return Loss better than 15dB
 Amplitude 800mV +/- 10%
 Wideband Jitter < 0.2UI

AES Embedded Audio

Transport Audio embedded into video according to SMPTE 299M
 Precision 24 bits
 Sampling Frequency 48kHz locked to video
 Tones 1kHz (nominal)
 444Hz (nominal)
 locked to sampling frequency
 Level -20dBFS (full signal)
 Channels 4 x stereo pairs (8 x channels)

Battery Life

3 hours continuous

Power Requirements

3 Volt Lithium Ion battery Type DL/CR123
 Optional 3v AC power adaptor 110/240 (+/- 10%) 50/60Hz

Mechanical

Length 172mm
 Diameter 22mm
 Weight 175g (without battery)

Environmental

Temperature 0 to 40 degrees C.
 EMI/RFI Complies with FCC, EU EMC Directive

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Format Selection Guide

LED Red ●
 LED Green ●
 LED Orange ●
 LED Red flickering ⚙
 LED Green flickering ⚙

	LED1	LED2	LED3	
1080i / 60	●	●	●	
1080i / 59.94	●	●	⚙	
1080i / 50	●	●	●	
1080p / 30	●	●	●	
1080p / 29.97	●	●	⚙	
1080p / 25	●	●	●	
1080p / 24	●	●	●	
1080p / 23.98	●	●	⚙	
1080sF / 30	●	●	●	
1080sF / 29.97	●	●	⚙	
1080sF / 25	●	●	●	
1080sF / 24	●	●	●	
1080sF / 23.98	●	●	⚙	
1035i / 60	●	●	●	
1035i / 59.94	●	●	⚙	
720p / 60	●	●	●	
720p / 59.94	●	●	⚙	
720p / 50	●	●	●	
				LED4
Audio	off			●
Audio	on			●



5 Boundary Business Centre
 Boundary Way, Woking
 Surrey GU21 5DH
 UK
 Tel: +44(0)1483 771663
 Fax: +44(0)1483 750358
 E: info@electronic-visuals.com
 W: www.electronic-visuals.com

penpal-HD

User Manual

Prepare to be amazed!

