

Specifications

USB

USB 2.0, class compliant midi device
plug and play under windows XP or Mac OSX
MTC, MMC and Rosendahl SYSEX for firmware updates

video input

BNC, 75 ohms terminated
accepts SD Bilevel syncs and HD Trilevel syncs

word clock input

BNC female, 75 ohms terminated
1,5 – 5 Vpp, 40 – 200 kHz

time code

LTC input, RCA/ Cinch 10k ohms
-40 to +20 dBu
LTC output, RCA/ Cinch 600 ohms, 1 Vpp

SPDIF output

RCA 75 ohms, 0.5 Vpp, IEC 985

AES/EBU outputs

2 x XLR 3-pin male, transformer balanced
110 ohms, 3.5 Vpp, AES-3 (Fs x1 or Fs x2)

word clock outputs

8 x BNC 75 ohms, 3.5 Vpp @ 75 ohms
outputs 1-6: multipliers Fs x1, Fs x2, Fs x4
outputs 7-8: multipliers Fs x1, Fs x2, Fs x4
Fs x256 (super clock)

video outputs

6 x BNC 75 ohms, AC-coupled
SD Bilevelsync, 300 mV sync, 300 mV burst
HD Trilevelsync, +/- 300 mV sync high/low

audio clock synthesiser

Fs x1, Fs x2, Fs x4, Fs x256 from sample frequencies
42.336, 44.056, 44.100, 44.144, 45.937 kHz
46.080, 47.952, 48.000, 48.048, 50.000 kHz
lock range to external LTC is +/- 10% of nominal speed
lock range to external word clock is 40 – 200 kHz
random jitter amplitude < 180 ps in all operation modes
clock jitter < 8 ps RMS within the audio spectrum (20 Hz – 20 kHz)

internal time base

temperature compensated VCXO
+/- 0.5 ppm @ ambient temperature
15 – 30 Celsius

video sync generators

standard definition:

525/29.97 NTSC, 625/25 PAL
625/24 slow PAL

high definition:

1080psf23.98, 1080psf24, 1080i50,
1080i59.94, 1080i60
1080p23.98, 1080p24, 1080p25, 1080p29.97
1080p30
1080p50, 1080p59.94, 1080p60
720p50, 720p59.94, 720p60

power supply

internal linear regulated power supply
230 VAC/50 Hz or 115 VAC/60 Hz, 10 W
internal switchable

dimensions

19", 1U rackmount, 442 x 120 mm, 2.5 kg