Specifications

Inputs and outputs

VIDEO INPUTS
Connector type: BNC
Input level: 0.5–2.0 Vp-p
Input impedance: 75 Ω (can turn ON/OFF in menu)

Input format
SD video black burst:
- NTSC (RS-170A)
- PAL (ITU-R624)

SD video composite sync:
- NTSC B/W (RS-170)

HD video tri-level:
- 720p/50/59.94/60 (SMPTE 296M)
- 1080p/23.976/24/25/29.97/30/50/59.94/60 (SMPTE 274M)
- 1080i/23.976/24/25/29.97/30 (SMPTE 274M)
- 1080PsF/23.976/24/25/29.97/30 (SMPTE RP211)

Permissible frequency deviation: ±10 ppm

WORD/EXT INPUTS
Connector type: BNC
Input level: 0.5–5.0 Vp-p
Input impedance: 75/50 Ω (can set to 75/50/OFF in menu)

Supported frequencies
WORD CLOCK: 32/44.1/48/88.2/96/176.4/192 kHz
(-4/-0.1/0.0/+0.1/+4% PULL UP/DOWN supported only when 48/96/192 kHz selected)
ATOM: 10.0 MHz
GPS: 10.0 MHz

Permissible frequency deviation: ±10 ppm

AES3/11 INPUT
Connector type: XLR-3-31 (1: GND, 2: HOT, 3: COLD)
Input level: 0.2–10 Vp-p
Input impedance: 110 Ω

Supported frequencies: 32/44.1/48/88.2/96/176.4/192 kHz
(-4/-0.1/0.0/+0.1/+4% PULL UP/DOWN supported only when 48/96/192 kHz selected)

Permissible frequency deviation: ±10 ppm
CALIBRATION INPUT
Connector type: BNC
Input level: 0.5–5.0 Vp-p
Input impedance: 50 Ω (can turn ON/OFF in menu)
Supported frequencies
- ATOM: 10.0 MHz
- GPS: 10.0 MHz, PPS

VIDEO OUTPUTS
Connector type: BNC
Output impedance: 75 Ω
Output format
SD video black burst:
- NTSC (RS-170A)
- PAL (ITU-R624)
SD video composite sync:
- NTSC B/W (RS-170)
HD video tri-level:
- 720p/50/59.94/60 (SMPTE 296M)
- 1080p/23.976/24/25/29.97/30/50/59.94/60 (SMPTE 274M)
- 1080i/23.976/24/25/29.97/30 (SMPTE 274M)
- 1080PsF/23.976/24/25/29.97/30 (SMPTE RP211)

WORD OUTPUTS
Connector type: BNC connector
Output level: 1.0–3.5 Vp-p (can set by 0.5V steps in menu)
Output impedance: 75 Ω
Supported frequencies: 32/44.1/48/88.2/96/176.4/192 kHz
- 11.2896/12.288 MHz (Super Clock, only connectors 11/12)
(−4/−0.1/0.0/+0.1/+4% PULL UP/DOWN supported only when 48/96/192 kHz selected)

AES3/11 OUTPUTS
Connector type: XLR-3-32 (1: GND, 2: HOT, 3: COLD)
Output level: 2.5 Vp-p
Output impedance: 110 Ω
Supported frequencies: 32/44.1/48/88.2/96/176.4/192 kHz
(−4/−0.1/0.0/+0.1/+4% PULL UP/DOWN supported only when 48/96/192 kHz selected)

S/PDIF OUTPUTS
Connector type: RCA pin jack
Output level: 0.5 Vp-p
Output impedance: 75 Ω
Format: IEC60958–3 (S/PDIF)
Supported frequencies: 32/44.1/48/88.2/96/176.4/192 kHz
(−4/−0.1/0.0/+0.1/+4% PULL UP/DOWN supported only when 48/96/192 kHz selected)
Performance

Internal oscillator
Type: OCXO (oven-controlled crystal oscillator)
Permitted frequency deviation: ±0.01 ppm (Adjusted value when shipped new from the factory)
Frequency temperature characteristics: ±0.05 ppm (0 to 40°C)
Long-term frequency stability:
  ±0.005 ppm (daily)
  ±0.5 ppm (annually)

General

Power
AC100 V–240 V, 50/60Hz

Power consumption
11.5 W

External dimensions
483 x 45 x 310mm (width × height × depth)

Weight
3.2 kg (7.1 lb)

Operating temperature range
0–40°C (32–104°F)
Dimensional drawings

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