

Analog to Digital Converter

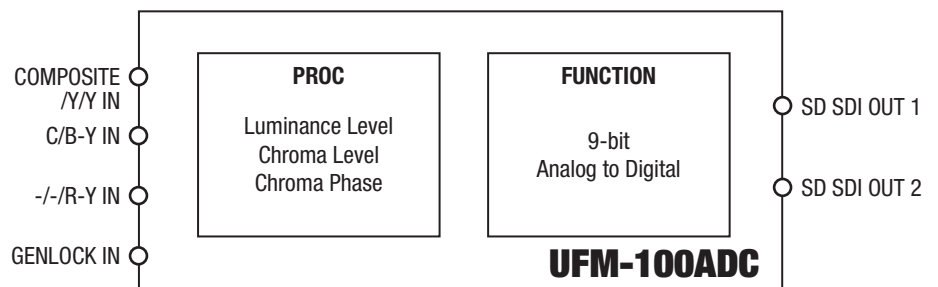
UFM-100ADC

The UFM-100ADC is a module-type A/D converter that can be installed in a UFM frame. Analog composite, Y/C, and analog component input can be converted to SD SDI for output.

Features

- Includes analog composite, Y/C, and analog component input.
- Two SD SDI outputs
- 10-bit A/D
- Adjustment of luminance level, chroma level, and chroma phase.
- Reference signals can be input from a UFM frame or rear module.

Block Diagram



**Analog
to Digital
Converter**

**Composite
1 in**

**Y/C
1 in**

**Component
1 in**

**SD SDI
2 out**

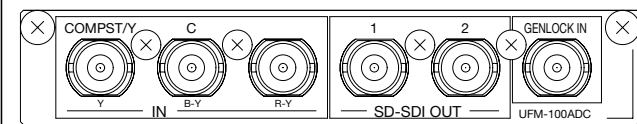
UFM-100ADC Specifications

● Standard	NTSC (525/60), PAL (625/50) (Auto detect)
● Video Input	Selectable as below
Analog Composite	1.0Vp-p, 75Ω, 1ea., BNC
Y/C	Y: 1.0Vp-p, C: 0.286Vp-p (NTSC) / 0.3Vp-p (PAL), 75Ω, 1ea., BNC
Analog Component	Y: 1.0Vp-p, R-Y/B-Y: 0.7Vp-p, 75Ω, 1ea., BNC (Selectable as Betacam level or SMPTE/EBU level)
● Genlock Input*	BB: 0.429Vp-p (NTSC) / 0.45Vp-p (PAL), 75Ω, 1ea, BNC (Also signal input from UFM Frame)
● Video Output	
Digital Component	270Mbps, 75Ω, 2ea., BNC
● Quantization	10-bit
● Sampling Frequency	Y: 13.5MHz, C: 6.75MHz
● I/O Delay	Max. 1 frame
● Frequency Response	100kHz - 5MHz: ±0.3dB, roll off above 5MHz (NTSC) 100kHz - 5.5MHz: ±0.3dB, roll off above 5.5MHz (PAL)
● S/N Ratio	Over 54dB
● Linearity	1.5%
● K-Factor (2T pulse)	1%
● Process Control	◆ Video Level: -50% - +50% ◆ Chroma Level: -50% - +50% ◆ Chroma Phase: -30° - +30°
● Temperature / Humidity	10°C - 40°C / 30% - 90% (no condensation)
● Power / Consumption / Draw	Supply from UF Frame, +12VDC - +24VDC / Approx. 3.6W / +12VDC: 0.3A, +24VDC: Approx. 0.15A
● Dimensions / Weight	106 (W) x 303 (D) mm (Front board), 18.5 (W) x 66.1 (D) mm (Rear board) / Approx. 0.5kg
● Require Slot	1 slot
● Accessories	Operation manual

*Can not adjust Genlock phase.

*Can not operate minimum delay and fixed delay mode.

UFM-100ADC Rear View



Universal Frame Line-up

UF-106A



Universal frame that can install up to 6 UFM modules, provides redundancy and universality, and contributes to reduced system space

UF-112



Universal frame that can install up to 12 UFM modules, provides redundancy and universality, and supports remote monitoring with installation of control board

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