

SDI to Analog Converter

SD-7401

The Kramer SD-7401 is a multi-standard, adjustment-free digital to analog converter designed to accept one SDI (4:2:2 serial digital video) input, and provide one analog output in four common signal formats. The SDI input is equalized and reclocked, and the output can be set for composite video, s-Video (YC), RGB, or Y, R-Y, B-Y. The SD-7401 also has an internal 75% color bar

generator, whose timing is based on the SDI input. The SD-7401 encodes 525 line signals to NTSC-M and 625 lines to PAL-B. Versions designed for other standards such as SECAM, PAL-M, and NTSC 4.43 may be available by special request. When encoding NTSC, the unit may be programmed with or without a 7.5 IRE setup (pedestal).



TECHNICAL SPECIFICATIONS

INPUTS:	SMPTE - 259M, ITU-R BT.601 (CCIR-601) 75 on a BNC connector.
OUTPUTS:	1 composite video - 1Vpp / 75 on a BNC connector. 1 s-Video - 1Vpp / (luma), 0.3 Vpp / 75 (chroma) on 4P connector. 1 component - RGB / Y, R-Y, B-Y (1V, 0.7V, 0.7V / 75) on BNC connectors.
EQUALIZATION:	Up to 40 dB @ 270 Mb/s (> 375m for Belden 8281 cable).
RESOLUTION:	Input: 10-bit / 8-bit; D/A converters: CV, YC - 10-bit; component - 9-bit.
K-FACTOR:	0.4%.
S/N RATIO:	71 dB (unweighted) worst case.
DIFF. PHASE:	0.25 Deg.
DIFF. GAIN:	0.33% (NTSC).
BANDWIDTH:	5 MHz. (Y, CV).
Y/C DELAY:	<10ns (CV).
SCH. PHASE:	0.6 Deg. worst case.
DIMENSIONS:	19 inch (W), 7 inch (D), 1U (H) rack mountable.
POWER SOURCE:	230 VAC, 50/60 Hz., (115 VAC, U.S.A.) 13.8 VA.
WEIGHT:	2.6 kg. (5.7 lbs.) approx.
ACCESSORIES:	Power cord.

TYPICAL APPLICATIONS

- Any application requiring conversion from SDI to analog.
- Monitoring of SDI signals in video broadcast studios.
- Production, editing, duplication, and non-linear systems.