

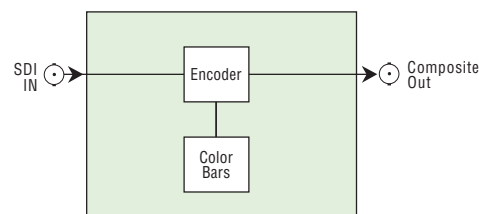
ENC-291p 12-bit SDI to NTSC/PAL encoder



The ENC-291p is a miniature SDI to NTSC/PAL encoder, which features 12-bit superior quality processing. It features automatic 525-line and 625-line SDI signal detection conforming to the SMPTE 259M-C standard, and provides a NTSC, PAL, PAL-M, or PAL-N composite output signal. It also includes a convenient built-in test pattern generator. This unit is very simple to install and to operate, and it is the ideal solution for monitoring applications.

Key Features and Benefits

- Superior quality 12-bit processing
- Automatic 525-line and 625-line format input detection
- NTSC or PAL-M composite output for 525-line input, and PAL or PAL-N composite output for 625-line input
- Y-only (monochrome) output selection
- Output setup selection: 7.5 or 0 IRE (NTSC)
- Built-in color bars generator
- Bi-color LED providing error status on input SDI signal
- Lightweight and very small extruded aluminum housing



ENC-291p Functional Block Diagram

Technical Specifications

INPUT

SIGNAL: SMPTE 259M-C (270Mbps)

CABLE LENGTH: 200m (650') – Belden 8281

RETURN LOSS: > 15dB up to 270MHz

CONNECTOR: 75 ohms BNC

OUTPUT SIGNAL: NTSC (525/60), PAL (625/50),

PAL-M (525/60),

PAL-N (625/50)

CONNECTOR: 75 ohms BNC

PROCESSING PERFORMANCE

QUANTIZATION: 12 bits

SIGNAL PATH: 10 bits

SAMPLING: 216MHz (16x oversampling)

FREQUENCY

RESPONSE: ± 0.5dB to 5MHz

TEST SIGNAL: 75% color bars with

100% white

PROCESSING DELAY: 3.2 μs

ELECTRICAL

VOLTAGE: 5 V

POWER: 1.5 W

Ordering Information

ENC-291p

12-bit SDI to NTSC/PAL Encoder

Accessories

LKS-WSU

pL-Tray

pico-PA

Power Supply For 110 V or 220 V

Rack mounted tray for up to 10 units

12V to 5V Power Adaptor