



Standards Converter

Model PX-720

PX-720 Standards Converter provides professional quality conversion of numerous worldwide PAL, SECAM and NTSC broadcast television standards. Motion compensation improves the conversion process. The integral Time Base Corrector with full Synchronization allows the unit to be genlocked to a Composite Video source. The TBC is active even in the Bypass Mode. High performance is achieved by using Digital Conversion and Digital Comb Filtering in the decoding process. Internal 10-bit accurate A/D and D/A conversion circuitry is employed for true 8-bit resolution. Black with Color Burst, Color Bars or Frozen Last Field is sent to the output when the input video is not present. An automatic gain circuit insures that the proper video output level of 1V p-p is maintained, even when the input signal varies between 0.5V and 2.0V p-p. The unit has two Composite and one S-Video input. Processing controls are provided for Luminance, Chrominance, Setup, Hue (NTSC). Optional Dual Rackmount available.



Key Features of the PX-720

- Automatic Detection of PAL, SECAM, NTSC
- Bi-directional Digital Conversion
- Built-in Time Base Corrector
- 2x Composite and 1x S-Video Input
- 1x Composite and 1x S-Video Output
- Video Parameter Adjustments
- Comb Filter (5-Line Adaptive) Decoding of the Video Input
- Full Digital Decoding/Encoding

Specifications

Inputs/Outputs

Composite Video 2x via BNC Connector
 S-Video (Y/C) 1x via 4-PIN Mini-DIN Connector
 Genlock (C-Video) via BNC with Loop-thru

General

Television Standards NTSC, NTSC 4.43, NTSC Japan
 PAL-B,G,N,M, SECAM (input only)
 Standards Detection Automatic or Manual
 Impedance 75Ω
 Conversion Process Bi-directional, Digital
 Sampling Frequency Y=13.5MHz, R-Y & B-Y=6.75MHz
 Digital Sampling Y=8 bits, R-Y=8 bits, B-Y=8 bits
 Field Conversion 60Hz to 50Hz, 50Hz to 60Hz
 Line Conversion 525 to 625, 625 to 525
 Frequency Response Flat to more than 6MHz
 Chroma to Luma Delay <= 5nS
 Differential Gain <=1%
 Differential Phase <=1°
 Luma Nonlinearity <=1%
 Signal to Noise Ratio Better than 60db
 Video Level Adjustment Luma, Chroma, Setup, Hue, Sharpness
 Filter Selection Adaptive Comb, Low Pass
 Advanced Controls U Gain, V gain, White Clip & Chroma Transient Improvement

Control Method

Display 16x2 LCD
 Front Panel Buttons Up, Down, Escape, Enter

Warranty

Limited Warranty 2 Years Parts and Labor

Mechanical

PX-720 (HWD) 1.4"x8.45x5.2" (36x215x130mm)
 Weight (Net) 1,8lbs (0.8kg)
 RM-200 (HWD) 1.75"x19"x7" (44x482x178mm)
 Weight (Net) 2.4 lbs (1.1 kg)

Environmental

Operating Temperature 0° to +48° C (+32° to +120° F)
 Operating Humidity 10% to 85%, Non-condensing
 Storage Temperature -10° to +70° C (+14° to +158° F)
 Storage Humidity 10% to 85%, Non-condensing

Regulatory Approvals

Standards Converters FCC, CE
 Power Supply UL, CE, CSA

Power Requirement

External Power Supply 5VDC@500mA - Locking DC

Accessories Included

1x C-Video Cable 6' (2m) BNC to BNC
 1x AC Power Adapter US, UK or Euro or Type

Product Item Numbers

PX-720 Standards Converter
 RM-200 Dual 19" Rackmount Frame

Panel Drawings

