

# The Precis Series of Off-the-Shelf Matrix Switchers

**precis™**  
by AutoPatch

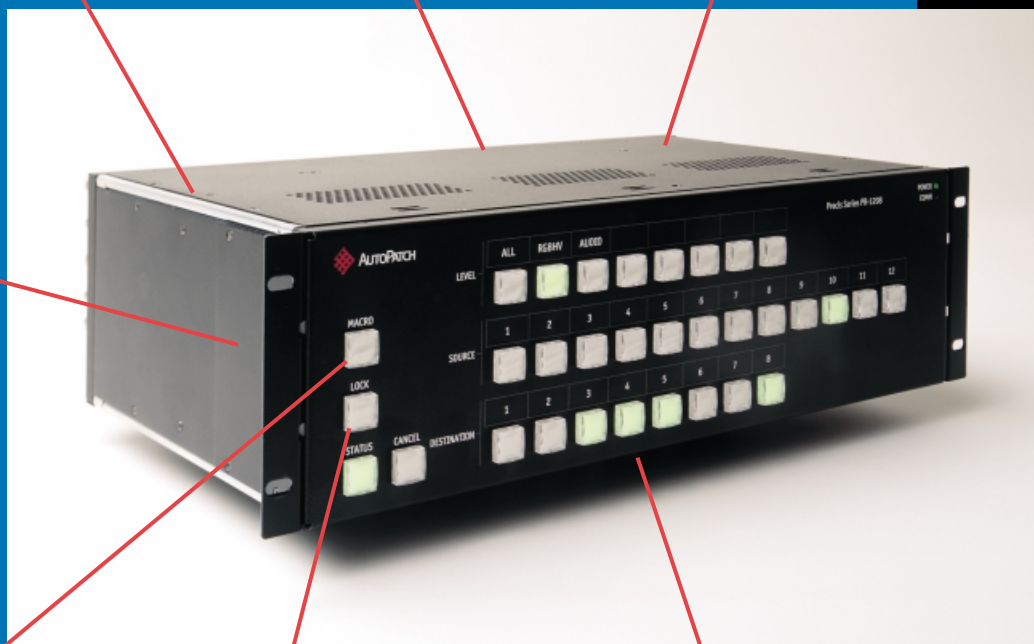
Now with  
Volume  
Control

8x4 and 12x8  
I/O configurations for  
RGB, RGBS, & RGBHV,  
with or without  
stereo audio.

Optional Digital  
Volume Control  
via front control  
panel and serial port  
commands.

Backed by  
limited  
Lifetime Warranty.\*

300 MHz  
video  
bandwidth.



Custom definable  
macros—user  
programmable key  
functions.

Password  
Front Panel  
Lockout.

Optional intelligent  
Local X/Y Control Panel  
available with  
custom laser-etched  
labeling.

 **AUTOPATCH™**

# Precis Series Distribution Matrix Specifications

## GENERAL

AC Power:	100 - 240 VAC single phase 47-63Hz
Humidity:	0 to 90 % non-condensing
Dimensions:	10.4 (26.4 cm) Depth 17.4 (44.2 cm) Width w/out rack ears 5.2 (13.2 cm) Height (3 ru)
Weight:	Appx. 12 lbs. (5.4 kg) per enclosure
Input/Output Range:	8x4 or 12x8
Communications:	RS-232
Signal Types:	RGB, RGBS, RGBHV, Stereo Audio Composite (NTSC, PAL, SECAM), S-Video, Y/C, YUV, HDTV, Serial Digital to 360 Mb/s, and more

## STANDARD AUDIO THROUGHPUT:

Frequency Response:	+/- 0.1 dB (20 to 20 kHz)
THD+Noise (THD+N):	<0.02% (20-20kHz, Vin = -6 to +26.6 dBu) <0.008% (20-20kHz, Vin = 0 to +26.6 dBu)
Crosstalk:	<-90 dB (1 kHz, Vin = +14 dBu)
Signal to Noise Ratio (SNR):	-100 dB (20 to 20 kHz, Vin = +20 dBu)

## VOLUME CONTROL AUDIO THROUGHPUT:

Frequency Response:	+/- 0.1 dB (20 to 20 kHz)
THD+Noise (THD+N)	<0.2% (20 to 20kHz, Vin = -6 to +26.6 dBu)
Crosstalk:	<-90 dB (1 kHz, Vin = +14 dBu)
Signal to Noise Ratio(SNR):	-88 dB (20 to 20 kHz, Vin = +20 dBu)
Input Level Adj. Range:	-10 dB to +10 dB
Output Volume Adj. Range:	-70 dB to +10 dB
Combined level adjustment range referenced to source is	-70 dB to +10 dB

## AUDIO INPUT:

Level:	Common +24 dBu, Diff +27 dBu
Impedance:	18K Ohms
Type:	Balanced or Unbalanced
CMRR:	Input -90 dB
Gain:	unity
Connector type(s):	Disconnectable, 5 Position Screw Terminal

## AUDIO OUTPUT:

Level:	27 dBu
Impedance:	50 Ohms
Type:	Balanced or Unbalanced
Gain:	unity
Connector type(s):	Disconnectable, 5 Position Screw Terminal

## ULTRA-WIDEBAND VIDEO THROUGHPUT:

Frequency Response:	+/- 3 dB to 300 MHz or better
Crosstalk (adjacent channel):	<-60 dB (f = 5 MHz)
Propagation Delay:	< 22 ns (Vin = 2Vpp, 1 MHz square wave)
Signal to Noise Ratio (SNR):	<-65 dB (Vin = 0.7V, 100% IRE)
Serial Digital Bandwidth:	up to 360 Mb/s

## ULTRA-WIDEBAND VIDEO INPUT:

Level:	3 Vpp
Impedance:	75 Ohms
Gain:	unity
Return Loss:	-44 dB @ 5 MHz
Connector type (s):	BNC

## ULTRA-WIDEBAND VIDEO OUTPUT:

Level:	3 Vpp
Impedance:	75 Ohms
Gain:	unity
Connector type(s):	BNC

## STANDARD VIDEO THROUGHPUT (using UWB I/O Section):

Frequency Response:	+/- 3 dB to 300 MHz or better
Differential Gain:*	<0.1% or better (f = 3.58 MHz, 10 to 90% APL)
Differential Phase:*	<0.05° or better (f = 3.58 MHz, 10 to 90% APL)
*Performed with a standard 5-step modulated staircase test signal.	
Crosstalk (adjacent channel):	<-60 dB (f = 5 MHz) <-55 dB (f = 10 MHz)
Propagation Delay:	< 22 ns (Vin = 2Vpp, 1 MHz square wave)
Signal to Noise Ratio (SNR):	<-65 dB (Vin = 0.7V, 100% IRE)

## STANDARD VIDEO INPUT (using UWB I/O Section):

Level:	3 Vpp
Impedance:	75 Ohms
Gain:	unity
Return Loss:	-44 dB @ 5 MHz
Connector type(s):	BNC

## STANDARD VIDEO OUTPUT (using UWB I/O Section):

Level:	3 Vpp
Impedance:	75 Ohms
Gain:	unity
Connector type(s):	BNC

precis™



 AUTOPATCH™

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\*See Warranty brochure for details.