Precis | Distribution Matrix

I/O RANGE

6x2
8x4, 8x8
12x8

SIGNAL TYPES

Composite, S-video, Y/c
HDTV, Y/Pb/Pr, YUV
RGB, RGsB, RGBS, RGBHV
SD-SDI
Mono Audio, Stereo Audio
S/PDIF, TosLink, AES 75 Ω
S-video + stereo (in) to CAT-5 (out)

For a complete list of available
configurations please visit
(www.autopatch.com/precis)

The Precis Series is designed to incorporate the convenience of a fixed matrix switcher with the features, specifications and signal choices of our larger lines. The Precis Series includes more than 80 off the shelf models designed for small to mid-range applications including home theater, boardrooms, sports bars, video conferencing, retail, security and portable command-control centers.

ULTRA-FLAT RESPONSE
The bandpass curve is as flat as possible, measured at a tight +/-3 dB, unlike other manufacturers who specify only - 3 dB to allow for the use of excessive peaking, damaging the signal, to record a wider bandwidth.

FIXED AND FLEXIBLE
Each signal component can be individually programmed to a specific level. For example, a 12x8 RGBHV can be configured and used as a 12x8 Y/Pb/Pr + 12x8 S-video.

PROFESSIONAL FEATURES
All 3RU models are equipped with breakaway to route audio, audio follow video or video, groupings, programmable macro functions, and optional volume control.

MULTIPLE CONTROL OPTIONS
Choose from local X/Y control panel or blank front panel. All models come with standard RS-232/422 control port, support AutoPatch's simple BCS serial control protocol, and ship with free APControl software. Optional TCP/IP control and remote control are also available.

AUTOPATCH™
High Performance Signal Routing

GENERAL

AC Power:	100-240 VAC single phase, 47-63 Hz
Power Consumption (max):	51 Watts per enclosure
Operational Temperature:	32° to 110° F (0° to 43° C)
Humidity:	0 to 90% non-condensing
Enclosure Dimensions:	10.4" (26.4 cm) depth
	17.4" (44.2 cm) width w/o rack ears
	18.8 (47.7 cm) width w/ rack ears
Height:	5.2 (13.0 cm) 3 RU
Weight:	Appx. 12 lbs (5.4 kg) per enclosure
Approvals:	CE, ETL, cETL, FCC

STANDARD AUDIO

Input Level (max):	+27 dBu, balanced
Input Impedance:	18 kΩ
Output Level (max):	+27 dBu, balanced
Output Impedance:	50 Ω
Frequency Response:	<+/- 0.1 dB (20 Hz to 20 kHz)
THD + Noise:	<0.02% (20 Hz to 20 kHz, Vin = -6 dBu to +26.6 dBu), no volume control
	<0.1% (20 Hz to 20 kHz, Vin = -10 dBu to +20 dBu), with volume control
Signal to Noise Ratio:	>105 dB (20 Hz to 20 kHz, Vin = +20 dBu), no volume control
	>80 dB (20 Hz to 20 kHz, Vin = +10 dBu), with volume control
Crosstalk:	<-90 dB (1 kHz, Vin = +14 dBu), no volume control
	<-110 dB (20 Hz to 20 kHz , Vin = +14 dBu), with volume control
Input Volume Adj. Range:	+10 dB to -10 dB
Output Volume Adj. Range:	+10 dB to -70 dB
Connector Options:	3T, 5T

VIDEO (WIDEBAND AND ULTRA-WIDEBAND)

Input Level (max):	+/- 1.5 Volts
Input Impedance:	75 Ω
Output Level (max):	+/- 1.5 Volts
Output Impedance:	75 Ω
Frequency Response:	300 MHz or better (+/- 3dB) wideband
	500 MHz or better (+/- 3 dB) ultra-wideband
Crosstalk:	<-60 dB (f = 5 MHz)
Signal to Noise Ratio:	>65 dB (Vin = 0.7V, 100% IRE)
HV Sync Input:	+/- 5 Volts
HV Sync Output:	+/- 5 Volts
HV Frequency:	50 MHz or better (+/- 3dB)
HV Crosstalk:	<-70dB @ 5MHz
Connectors:	BNC

THE PRECIS SERIES

There are over 50 off-the-shelf models available to route composite, component, stereo audio and digital audio. 500 MHz units can also be used to route SD-SDI. For even more convenience each signal component can be individually programmed to a specific level. For example, a 8x4 RGB model can be configured and used as a 8x4 composite + 8x4 Y/c.

I/O RANGE

8x4, 8x8
12x8

SIGNAL TYPES

Composite, S-video, Y/c
HDTV, Y/Pb/Pr, YUV
RGB, RGsB, RGBS, RGBHV
SD-SDI
Mono Audio, Stereo Audio
S/PDIF, AES 75 Ω

For a complete list of configurations and order numbers please visit
www.autopatch.com/precis

FEATURES

- Lifetime Warranty
- AutoAssist 24-hour technical support
- Ultra-Flat Response
- Optional volume control
- Choice of front panel control or blank front panel
- Remote control options available
- RS-232 control port
- Optional TCP/IP control via external module (500MHz model)
- Breakaway
- Groupings
- Programmable macro functions
- Virtual Matrix Levels
- Simple AutoPatch BCS Serial Control Protocol
- Linkable enclosures (500 MHz model only)
- Rack mounting ears included
- Optional volume control
- Audio connections support balanced or unbalanced

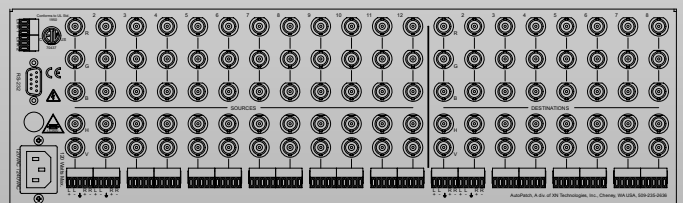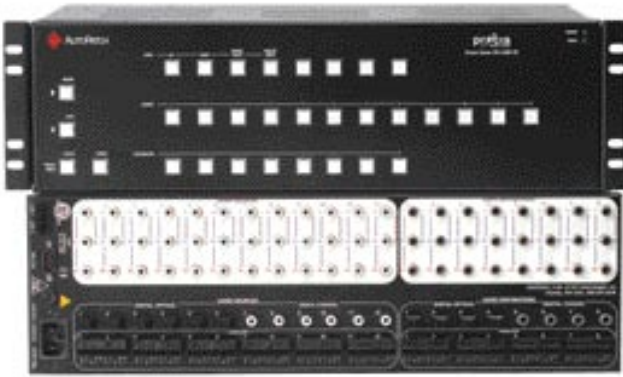12x8 RGBHV + stereo (BNC/5T)
1 of many possible configurations

Precis-HT | Distribution Matrix

THE PRECIS HT (Home Theater)

The Precis HT is designed to route and distribute composite, component (including Y/Pb/Pr and HDTV), analog audio, and digital audio. The digital audio section supports both TosLink and S/PDIF and converts between them. All Precis HT models come standard with volume control.

I/O RANGE

8x4,
12x8

SIGNAL TYPES

Composite, S-video, Y/c
HDTV, Y/Pb/Pr, YUV
RGB, RGsB, RGBS, RGBHV
Mono Audio, Stereo Audio
S/PDIF, TosLink, AES 75 Ω

For a complete list of configurations and order numbers please visit
www.autopatch.com/precis

FEATURES

- Lifetime Warranty
- AutoAssist 24-hour technical support
- Ultra-Flat Response
- Volume control
- Choice of front panel control or blank front panel
- Remote control options available
- RS-232 control port
- Breakaway
- Groupings
- Programmable macro functions
- Virtual Matrix Levels
- Simple AutoPatch BCS Serial Control Protocol
- Rack mounting ears included
- Audio connections support balanced or unbalanced

GENERAL

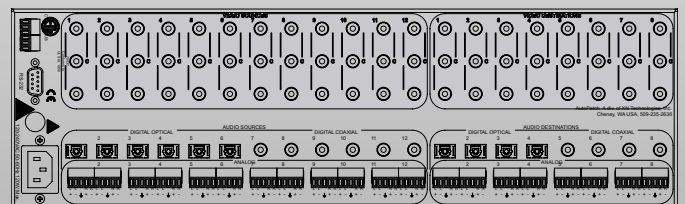|	
AC Power:	100-240 VAC single phase, 47-63 Hz
Power Consumption (max):	51 Watts per enclosure
Operational Temperature:	32° to 110° F (0° to 43° C)
Humidity:	0 to 90% non-condensing
Enclosure Dimensions:	10.4" (26.4 cm) depth
	17.4" (44.2 cm) width w/o rack ears
	18.8 (47.7 cm) width w/ rack ears
Height:	5.2 (13.0 cm) 3 RU
Weight:	Appx. 12 lbs (5.4 kg) per enclosure
Approvals:	CE, ETL, cETL, FCC

STANDARD AUDIO

Input Level (max):	+27 dBu, balanced
Input Impedance:	18 kΩ
Output Level (max):	+27 dBu, balanced
Output Impedance:	50 Ω
Frequency Response:	<+/- 0.1 dB (20 Hz to 20 kHz)
THD + Noise:	<0.02% (20 Hz to 20 kHz, Vin = -6 dBu to +26.6 dBu), no volume control
	<0.1% (20 Hz to 20 kHz, Vin = -10 dBu to +20 dBu), with volume control
Signal to Noise Ratio:	>105 dB (20 Hz to 20 kHz, Vin = +20 dBu), no volume control
	>80 dB (20 Hz to 20 kHz, Vin = +10 dBu), with volume control
Crosstalk:	<-90 dB (1 kHz, Vin = +14 dBu), no volume control
	<-110 dB (20 Hz to 20 kHz , Vin = +14 dBu), with volume control
Input Volume Adj. Range:	+10 dB to -10 dB
Output Volume Adj. Range:	+10 dB to -70 dB
Connectors:	5T

DIGITAL AUDIO (TosLink, S/PDIF)

Resolution:	16 to 24 bit
Sample Rate:	32 to 96kHz
Connectors:	TosLink, S/PDIF

WIDEBAND VIDEO

Input Level (max):	+/- 1.5 Volts
Input Impedance:	75 Ω
Output Level (max):	+/- 1.5 Volts
Output Impedance:	75 Ω
Frequency Response:	300 MHz or better (+/- 3dB)
Crosstalk:	<-60 dB (f = 5 MHz)
Signal to Noise Ratio:	>65 dB (Vin = 0.7V, 100% IRE)
HV Sync Input:	+/- 5 Volts
HV Sync Output:	+/- 5 Volts
HV Frequency:	50 MHz or better (+/- 3dB)
HV Crosstalk:	<-70dB @ 5MHz
Connectors:	BNC, RCA

12x8 Y/Pb/Pr + S/PDIF / TosLink + stereo
Also available in 8x4

THE PRECIS

The CAT-5 model routes and converts six S-video + stereo inputs out to two CAT-5 outputs for distribution up to 1000 feet. Also available in 6x2 S-video + stereo all over S-video / RCA connectors. To counteract the common problem of S-video connectors pulling out, AutoPatch offers locking S-video cables.

I/O RANGE / SIGNAL TYPES

6x2 S-video + stereo audio
6x2 S-video + stereo audio out to CAT-5

GENERAL

AC Power:	100-240 VAC single phase, 47-63 Hz
Power Consumption (max):	25 Watts per enclosure
Operational Temperature:	32° to 110° F (0° to 43° C)
Humidity:	0 to 90% non-condensing
Enclosure Dimensions:	10.4" (26.4 cm) depth
	17.4" (44.2 cm) width w/o rack ears
	19.0" (48.26 cm) width w/ rack ears
Height:	1.7" (4.32 cm) 1 RU
Weight:	Appx. 7 lbs (3.18 kg) per enclosure
Approvals:	UL, cUL

STANDARD AUDIO

Input Level (max):	+8 dBu, unbalanced
Input Impedance:	18 kΩ
Output Level (max):	+8 dBu, unbalanced
Output Impedance:	50 Ω
Frequency Response:	<+/- 0.1 dB (20 Hz to 20 kHz)
THD + Noise:	<0.02% (20 Hz to 20 kHz, Vin = -10 dBu to +8 dBu)
Signal to Noise Ratio:	>105 dB (20 Hz to 20 kHz, Vin = +2 dBu)
Crosstalk:	<-100 dB (1 kHz, Vin = +2 dBu)
Connectors:	RCA

STANDARD VIDEO

Input Level (max):	+/- 1.5 Volts
Input Impedance:	75 Ω
Output Level (max):	+/- 1.5 Volts
Output Impedance:	75 Ω
Frequency Response:	50 MHz or better (+/- 3dB)
Crosstalk:	<-55 dB (f = 5 MHz)
Signal to Noise Ratio:	>65 dB (Vin = 0.7V, 100% IRE)
Connectors:	S-video

STANDARD AUDIO (CAT-5 OUT)

Input Level (max):	+8 dBu, unbalanced
Input Impedance:	18 kΩ
Frequency Response:	<+/- 0.1 dB (20 Hz to 20 kHz)
THD + Noise:	<0.02% (f = 20 Hz to 20 kHz, Vin = -10 to +8 dBu)
Crosstalk:	<-100 dB (f = 1 kHz, Vin = +2 dBu)
Signal to Noise Ratio:	>100 dB (f = 20 Hz to 20 kHz, Vin = +8 dBu)
Output Level (max):	+8 dBu, unbalanced
Output Impedance:	50 Ω, after receiver
Connectors:	RCA (in) / RJ-45 (out)

STANDARD VIDEO (CAT-5 OUT)

Input Level (max):	+/- 1.5 Volts
Input Impedance:	75 Ω
Frequency Response:	10 MHz or better (+/- 3dB) all distances ≤ 1000 ft.
Crosstalk:	<-55 dB (f = 5 MHz)
Signal to Noise Ratio:	>60 dB
Output Level (max):	+/- 1.5 Volts
Output Impedance:	75 Ω, after receiver
Connectors:	S-video (in) / RJ-45 (out)

FEATURES

- Lifetime Warranty
- AutoAssist 24-hour technical support
- Ultra-Flat Response
- Local control panel, or blank front panel
- RS-232 control port
- Programmable macro functions
- Simple AutoPatch BCS Serial Control Protocol
- Rack mounting ears included

We stand behind every unit we sell with our exclusive AutoPatch Lifetime Warranty.

24hrs / 800.622.0246
International 509.235.2636

Our trained technical staff is available 24 hours a day, every day of the year, to answer installation and technical questions.

6x2 S-video + stereo (in) to CAT-5 (out)

AutoPatch™
High Performance Signal Routing

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