



The Pyramid matrix is an expandable unit which provides 48 inputs and 16 monitor outputs, and can provide control of both fixed speed and variable speed pan and tilt zone cameras.

The matrix can be expanded to 144 cameras & 32 monitors. This unit also provides all the programming facilities of the Pyramid system, 8 RS232 control ports for control of Multiplexers and VCR's, a printer port and network interface.

The matrix is at the heart of the Pyramid system and handles all alarm switching and control functions.

Video

Inputs	48 Buffered, 1v p-p composite video via BNC connection
Outputs	16 Buffered, 1v p-p composite video via BNC connection
Path Impedance	Unbalanced 75 Ohm
Return Loss	0-6Mhz – 20dB
Bandwith	10Mhz
Video Loss Alarms	Loss of sync @ <150mV Loss of video signal
Differential Phase	<2°
Differential Gain	< 0.5dB
Cross Talk	Better than -55dB @ 4.5Mhz
Signal to Noise Ratio	Better than >60dB weighted
Distortion	Better than 1%
Termination	Via dip switches
On Screen Display	Per output, 28 character by 11 line displays with independent colour background. Upper and lower case character set. Removable.

Interfaces

Serial Ports	8 RS232 serial ports (9 way male D type)
Printer Port	1 centronics port (25 way female D type)
Network / Keyboard connection	1 2 wire RS485 / RS422 or FT110 5 pin removable screw terminated block

Physical

Dimensions	483x178x40mm 19" 4U rack mountable
Material	Mild steel with access hinge
Power Consumption	Nominal 9 Watts
Power Supply	110 - 240V AC PSU to provide 9V to 15V DC, 2A class 2
Weight	4.5kg

Product Codes

PY-48M16-L (RS485 Low speed)	} Base matrix or output expander
PY-48M16-HR (RS485 High speed)	
PY-48M16-H (FTT10 High speed)	
PY-32S	Slave input expander

Part Configurator for Matrices

		Outputs	
		16	32
Inputs	48	1xPY-48M16	2xPY-48MI6
	80	1xPY-48M16	2xPY-48MI6
		1xPY-32S	2xPY-32S
	112	1xPY-48M16	2xPY-48MI6
2xPY-32S		4xPY-32S	
144	1xPY-48M16	3xPY-48MI6	
	3xPY-32S	6xPY-32S	

Note: In most applications - L(RS485 low speed) is adequate, if a high number of keyboards is to be used or a flexible topology then an alternative product - HR or H would be more suitable.