

Technical Specifications

Models	Matrix RGB8 Series	Matrix RGB16 Series	Matrix RGB64、48 Series
Specifications			
Video			
Bandwidth	400MHz (-3dB), fully loaded 0 -10MHz @ ± 0.1dB 0 -100MHz @ ± 0.6dB		
Cross talk sum	0.03 Deg.		
Differential phase error	0.1°, 0.1%		
Differential gain error	0.1%, 3.58-4.43MHz		
Switching speed	200 ns (Max)		
Signal type	RGBHV, RGBS, RGsB, RsGsBs, HDTV, Component Video, S-Video, Composite Video		
Input video			
Connector	BNC female		
Signal strength	1V p-p Y Component Video、S-Video, Composite Video; 0.7V p-p RGB; 0.3V p-p R-Y & B-Y Component Video、S-Video		
Maximum/Minimum level	Analog signals: 0.5V ~ 2.0V p-p		
Impedance	75 Ω		
Output video			
Connector	BNC female		
Maximum/Minimum level	2.0V p-p		
Impedance	75 Ω		
Max compensation in Dc offset	±5mV		
Gain	1.03 dB		
Sync signal			
Input/output signals	RGBHV, RGBS, RGsB, RsGsBs,		
Input level	0.5V- 5.0V p-p,; 4.0V p-p normal		
Output level	AGC-TTL: 5Vp-p, unterminated		
Input impedance	510 Ω		
Output impedance	75 Ω		
Polarity	Straight or subtractive according to input		
Audio signal			
I/O connector	3.8mm with screw , 5 pole		
Gain	0dB		
Frequency respond	20 Hz ~ 20 kHz,		



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General harmonic distortion + noise	0.03% @ 1 kHz (under rating voltage)		
S/N	>90dB		
Segregation rate	>80dB @ 1 kHz		
CMRR	>75dB @: 20 Hz ~ 20 kHz		
Signal	Stereo , balanced /unbalanced		
Impedance	Input: >10 kΩ (balanced /unbalanced) Output: 50 Ω (unbalanced) , 100 Ω (balanced)		
Maximum input level	+19.5dBu, (balanced /unbalanced)		
Gain error	±0.1dB		
Max output level	+19.5dBu, (balanced /unbalanced)		
Control type			
Serial control port	RS-232, 9-pin DB connector		
Baud rate and protocol	Baud rate: 9600 Data bit: 8 Stop bit: 1 Parity bit: none		
Serial control poling protocol	2 = TX, 3 = RX, 5 = GND		
Command / Protocol	ECC (Easy Control Commands) Simple ASCII Commands (Case-sensistive)		
Ethernet	Connector	RJ-45 Female (Optional accessory)	
	Protocol	TCP/IP	
	Speed	Full/half-duplex 10/100M	
Software	Switcher 2.0 (Available at www.teqgear.com/technical)		
Features			
Power supply	100VAC ~ 240VAC, 50/60 Hz, Universal power supply		
Temperature	Storing and operating temperature: -20° ~ +70°C		
Humidity	Storing and operating humidity: 10% ~ 90%		
Size	485(L)X133(W)X266mm(H)	485(L)X311(W)X266mm(H)	485(L)X315(W)X266mm(H) (single box)
Weight	4.5kg	9.5kg	10kg
MTBF	30,000 hours		
Warranty	3 years, parts and labor		