

Specifications — MGP 462 Multi-Graphic Processor

Video input

Number/signal type	4 RGBHV, RGBS, RGsB, RGBcvS, component video, S-video, composite video 1 component video (interlaced), S-video, composite video 1 optional digital component video (SDI, SMPTE 259M-C, 270 Mbps), S-video, composite video
Connectors	4 x 5 female BNC for RGB, component video, S-video, composite video 1 x 3 female BNC for component video, S-video, composite video 1 female BNC for composite video 1 female 4-pin mini DIN for S-video 1 female BNC for optional SDI component video
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for R-Y and B-Y of component video, and for C of S-video
Minimum/maximum levels	Analog: 0 V to 2.0 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	15 kHz to 100 kHz
Vertical frequency	50 Hz to 120 Hz
Resolution range	640 x 480 to 1600 x 1200, 480p, 576p, 720p, 1080i, 1080p
Return loss	<-30 dB @ 5 MHz

Video processing

Digital sampling	24 bit, 8 bits per color; 140 MHz standard
Colors	16.78 million

Video output

Number/signal type	1 scaled RGBHV, RGBS, RGsB, or HD component (YUV) video
Connectors	1 female 15-pin HD, 5 female BNC
Nominal level	1 Vp-p for Y of component video 0.7 Vp-p for RGB 0.3 Vp-p for R-Y and B-Y of component video
Minimum/maximum levels	0 V to 1.0 Vp-p
Impedance	75 ohms
Vertical frequencies	50 Hz, 60 Hz, 72 Hz, 96 Hz, 100 Hz, 120 Hz
Scaled resolution	640x480 ^{1,2,3,4,5,6} , 800x600 ^{1,2,3,4,5,6} , 852x480 ^{1,2,3,4,5} , 1024x768 ^{1,2,3,4} , 1024x852 ^{1,2,3,4} , 1024x1024 ^{1,2,3} , 1280x768 ² , 1280x1024 ^{1,2} , 1360x765 ² , 1365x768 ² , 1365x1024 ² , 1366x768 ² , 1400 x 1050 ^{1,2} , 1600 x 1200 ^{1,2} HDTV: 480p ² , 576p ^{1,5} , 720p ^{1,2} , 1080i ^{1,2} , and 1080p ^{1,2} ¹ = at 50 Hz, ² = at 60 Hz, ³ = at 72 Hz, ⁴ = at 96 Hz, ⁵ = 100 Hz, ⁶ = 120 Hz

Sync

Input type	RGBHV, RGBS, RGsB, RGBcvS
Output type	RGBHV, RGBS, RGsB Tri-level or bi-level on Y channel of component video
Input standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	0.0 V to 5.0 Vp-p
Output level	TTL: 5.0 Vp-p, bi-level, unterminated for RGBHV, RGBS, RGsB ±2.5 Vp-p for component video (tri-level sync)
Input impedance	510 ohms
Output impedance	75 ohms
Max input voltage	5.0 Vp-p
Polarity	Positive or negative (selectable)

Control/remote — processor/decoder/scaler

Serial control port	RS-232 or RS-422, 9-pin female D connector
Baud rate and protocol	9600 baud (default), 8 data bits, 1 stop bit, no parity
Serial control pin configurations	2 = TX, 3 = RX, 5 = GND
Ethernet control port	1 RJ-45 female connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, DHCP, ICMP (ping), TCP/IP, Telnet
Program control	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) Microsoft® Internet Explorer, Telnet

General

Power	100 VAC to 240 VAC, 50/60 Hz, 30 watts, internal
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, unvented
Rack mount	Yes, with included brackets
Enclosure type	Metal
Enclosure dimensions	1.7" H x 17.5" W x 12.0" D (1U high, 1 rack wide) 4.3 cm H x 44.5 cm W x 30.5 cm D (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight	6.8 lbs (3.1 kg)
Shipping weight	11 lbs (5 kg)
DIM weight, international	12 lbs (6 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE All nominal levels are at $\pm 10\%$.

NOTE Specifications are subject to change without notice.

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