

Specifications

WindoWall® MGP 464W Series

NOTE: WindoWall® processors are available in packages of 2 or 3 units. The following specifications are given per unit, not per package.

Video input

Number/signal type	4 VGA-WUXGA RGBHV, RGBS, RGsB, RsGsBs, RGBcvS, component video (interlaced or progressive), S-video, composite video 4 single link DVI digital video (MGP 464W DI only)
Connectors	
Inputs 1-4	(4) x 5 female BNC (all models) 4 female DVI-I (DI models only)
Inputs 5-19 (disabled)	15 female BNC
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: 0.0 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	640x480 to 1920x1200*, 480p, 576p, 720p, 1080i, 1080p *Only the reduced blanking version of the 1920x1200 resolution is sampled at full bit rate.
DC offset (max. allowable)	0.5 V

Video processing

Digital sampling	24 bit, 8 bits per color; 13.5 MHz standard (video), 162 MHz standard (RGB)
Colors	16.78 million

Video output

Number/signal type	1 scaled RGBHV, RGBS, RGsB, HD YUV component video 1 single link DVI digital video
Connectors	5 female BNC, 1 female DVI-I
Nominal level	1 Vp-p for Y of component video and for G of RGsB 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels	0.0 V to 1.0 Vp-p
Impedance	75 ohms
Vertical frequencies	24 Hz, 50 Hz, 59.94 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 ^{1,2} , 1280x800 ^{1,2,3} , 1280x1024 ^{1,2} , 1360x765 ^{1,2} , 1360x768 ^{1,2} , 1365x768 ^{1,2} , 1365x1024 ^{1,2} , 1366x768 ^{1,2} , 1400x1050 ^{1,2} , 1440x900 ^{1,2,3} , 1600x1200 ^{1,2} , 1680x1050 ² , and 1920x1200 ^{1,2} HDTV: 480p ^{2,8} , 576p ¹ , 720p ^{1,2,8} , 1080i ^{1,2,8} , and 1080p ^{1,2,7,8} ¹ = at 50 Hz, ² = at 60 Hz, ³ = at 72 Hz, ⁴ = at 96 Hz, ⁵ = at 100 Hz, ⁶ = at 120 Hz, ⁷ = 24 Hz, ⁸ = 59.94 Hz
Return loss	-30 dB @ 5 MHz
DC offset	±25 mV with input at 0 offset
Switching type	Triple-Action

Sync

Input type	RGBHV, RGBS, RGsB, RsGsBs, RGBcV, YUV (tri-level or bi-level on Y channel)
Output type	RGBHV, RGBS, RGsB, YUV (tri-level or bi-level on Y channel)
Input standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	2.75 V to 5.0 Vp-p for RGBHV or RGBS 0.6 Vp-p for component video tri-level sync 0.3 Vp-p for component video bi-level sync or RGsB
Output level	0.6 Vp-p for component video (tri-level sync) 0.3 Vp-p for component video bi-level sync or RGsB TTL: 5.0 Vp-p, unterminated for RGBHV, RGBS
Input impedance	510 ohms
Output impedance	75 ohms
Polarity	Positive or negative (selectable)

Control/remote — processor/decoder/scaler

Serial control ports	(1) RS-232 or RS-422, female 9-pin D connector
Baud rate and protocol	300 to 115200 baud (default: 9600), 8 data bits, 1 stop bit, no parity
Serial control pin configurations — 9-pin D connector	
RS-232	2 = Tx, 3 = Rx, 5 = GND
RS-422	2 = Tx-, 3 = Rx-, 5 = GND, 7 = Rx+, 8 = Tx+
Ethernet control port	1 female RJ-45 connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, SMTP, Telnet
Program control	Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer, Telnet Extron WindoWall® Console application software

General

Power supply	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption	50.0 watts
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	Fan, right to left (as viewed from the front panel)
Thermal dissipation	148 Btu/hour
Mounting	Rack mountable with included brackets
Enclosure type	Metal
Enclosure dimensions (per unit)	3.4" H x 17.5" W x 12.0" D (2U high, 1 rack wide) (8.6 cm H x 44.5 cm W x 30.5 cm D) (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight	8.5 lbs (3.9 kg)
Shipping weight	18 lbs (9 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Environmental	Complies with the appropriate requirements of WEEE.
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

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