

# Specifications — WindoWall™ MGP 464W Series

**NOTE** WindoWall™ processors are available in packages of 2 or 3 modules. The following specifications are given per unit, not per package.

## Video input

Number/signal type.....	4 VGA-UXGA 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.....	15 female BNC (disabled)
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
Connectors .....	5 BNC female, 1 DVI-I female
Nominal level .....	1 Vp-p for Y of component video 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.....	50 Hz, 60 Hz, 72 Hz, 96 Hz, 100 Hz, 120 Hz
Scaled resolution .....	640x480 <sup>1,2,3,4,5,6</sup> , 800x600 <sup>1,2,3,4,5,6</sup> , 852x480 <sup>1,2,3,4,5</sup> , 1024x768 <sup>1,2,3,4</sup> , 1024x852 <sup>1,2,3,4</sup> , 1024x1024 <sup>1,2,3</sup> , 1280x768 <sup>1,2</sup> , 1280x1024 <sup>1,2</sup> , 1360x765 <sup>1,2</sup> , 1365x768 <sup>1,2</sup> , 1365x1024 <sup>1,2</sup> , 1366x768 <sup>1,2</sup> , 1400 x 1050 <sup>1,2</sup> , 1600 x 1200 <sup>1,2</sup> HDTV: 480p <sup>2</sup> , 576p <sup>1</sup> , 720p <sup>1,2</sup> , 1080i <sup>1,2</sup> , and 1080p <sup>1,2</sup> <sup>1</sup> = at 50 Hz, <sup>2</sup> = at 60 Hz, <sup>3</sup> = at 72 Hz, <sup>4</sup> = at 96 Hz, <sup>5</sup> = at 100 Hz, <sup>6</sup> = at 120 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, RGBcvS, 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 .....	0.0 V to 5.0 Vp-p
Output level .....	0.6 Vp-p for component video (tri-level sync) TTL: 5.0 Vp-p, unterminated for RGBHV, RGBS
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Polarity.....	Positive or negative (selectable)

# Specifications — WindoWall™ MGP 464W Series, cont'd

## Control/remote — processor/decoder/scaler

Serial control ports.....	(1) RS-232 or RS-422, 9-pin female 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+
2.5 mm mini stereo jack....	Tip = TX, ring = RX, sleeve = 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, HTTP, SMTP
Program control.....	Extron's Simple Instruction Set (SIS™) Microsoft® Internet Explorer, Telnet Extron's WindoWall™ Console application software

## 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.....	Fan, right to left (as viewed from the front panel)
Rack mount.....	Yes, 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, CUL, UL
EMI/EMC.....	CE, C-tick, FCC Class A, ICES, VCCI
Environmental.....	Complies with the appropriate requirements of WEEE.
MTBF.....	30,000 hours
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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