

# Specifications — RGB 109xi

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## Video

Gain.....	Unity (0.7 V), (0.725 Vp-p) 50% peaking, (0.75 Vp-p) 100% peaking
Bandwidth.....	300 MHz (-3 dB)

## Video input

Number/signal type.....	1 analog VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs
Connectors .....	1 male 15-pin HD, 48" (1.2 m) long cable
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 Vp-p with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	Autoscan 15 kHz to 130 kHz
Vertical frequency.....	Autoscan 30 Hz to 120 Hz
Return loss.....	<-30 dB @ 5 MHz
DC offset (max. allowable).....	4.0 V

## Video output

Number/signal type.....	1 analog RGBHV, RGBS, RGsB
Connectors .....	6 female BNC, 1 female 15-pin HD local monitor output (buffered)
Nominal level .....	0.7 Vp-p for RGB
Minimum/maximum levels.....	Analog: 0.7 V to 0.75 Vp-p with 0.70 Vp-p input
Impedance.....	75 ohms
Return loss.....	-30 dB @ 5 MHz

## Sync

Input type.....	RGBHV TTL ( $\pm$ ), RGBS TTL ( $\pm$ ), RGsB 0.3V (-), RsGsBs 1.3V (-)
Output type.....	RGBHV ( $\pm$ ), RGBS( $\pm$ ), RGsB (-)
Input level .....	2.0 V to 5.5 Vp-p with $\pm$ 0.2 VDC offset (max.)
Output level.....	4.0 V to 5.0 Vp-p, unterminated
Input impedance .....	10k ohms
Output impedance .....	75 ohms
Max. propagation delay .....	48 ns
Max. rise/fall time .....	3.5 ns
Polarity.....	RGBHV: when RGBHV is input, polarity follows input; otherwise negative RGBS, RGsB: negative

## Audio

Gain.....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response .....	20 Hz to 20 kHz, $\pm$ 0.05 dB
THD + Noise.....	0.03% @1 kHz, 0.3% @ 20 kHz at nominal level
S/N.....	>90 dB at maximum output (14 dBu), balanced (unweighted)
Stereo channel separation .....	>95 dB @ 1 kHz to 20 kHz

## Audio input

Number/signal type.....	1 PC level stereo, unbalanced
Connectors .....	(1) 3.5 mm stereo plug, 24" cable from computer video connector; tip (L), ring (R), sleeve (ground)
Impedance.....	>10k ohms, unbalanced, DC coupled
Nominal level .....	-10 dBV (316 mVrms)
Maximum level.....	+8.5 dBu, (unbalanced) at 1% THD+N

**NOTE** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV  $\approx$  2 dBu

# Specifications — RGB 109xi, cont'd

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## Audio output

Number/signal type.....	1 stereo (2 channel), balanced/unbalanced
Connector .....	(1) 3.5 mm captive screw connector, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Gain error .....	±0.1 dB channel to channel
Maximum level (600 ohm).....	> +14 dBm, balanced at 1% THD+N

## General

Power .....	100 VAC to 240 VAC, 50-60 Hz, 15 watts, internal
Cooling .....	Convection, vents on left and right sides
Temperature/humidity .....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +104 °F (0° to +40 °C) / 10% to 90%, noncondensing
Mounting	
Furniture mount.....	Yes, with optional under desk mount kit or through desk mount kit
Enclosure type .....	Metal
Enclosure dimensions.....	1.75" H x 6.4" W x 6.0" D (4.4 cm H x 16.3 cm W x 15.2 cm D) (Depth excludes connectors.)
Product weight .....	1.8 lbs (0.8 kg)
Shipping weight .....	4 lbs (1.8 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
Warranty .....	3 years parts and labor

**NOTE** All nominal levels are at ±10%.

**NOTE** Specifications are subject to change without notice.

7.6-082509-D8-111712