

Specifications — RGB 500 Series Interfaces

Video

Gain Unity (0.70V p-p), (0.725V p-p) 50% peaking, (0.75V p-p) 100% peaking
Bandwidth 300 MHz (-3dB)

Video input

Number/signal type 1 analog RGBHV, RGBS, RGSB, RsGsBs
Connectors
 RGB 500, RGB 500 Dual, RGB 508
 1 9-pin D male, MBC/LBC cable or buffer
 RGB 560, RGB 560 Dual, RGB 568, RGB 560 AKM
 1 15-pin HD female
Minimum/maximum levels Analog 0.3V to 1.5V p-p with no offset
Impedance 75 ohms or High Z, switchable (set to 75 ohms if no local monitor is connected)
Horizontal frequency Autoscan 15 kHz to 130 kHz
Vertical frequency Autoscan 30 Hz to 120 Hz
Return loss -30dB @ 5 MHz
Maximum DC offset 4.0V

Video output

Number/signal type 1 analog RGBHV, RGBS, RGSB
Connectors
 All models 5 BNC female
 RGB 560, RGB 560 Dual, RGB 568, RGB 560 AKM
 1 15-pin HD female for buffered local monitor output
Minimum/maximum levels 0.70V to 0.75V p-p with no offset and 0.7V p-p input
Impedance 75 ohms
Return loss -30dB @ 5 MHz

Sync

Input type RGBHV TTL (\pm), RGBS TTL (-), RGSB 0.3V (-), RsGsBs 1.3V (-)
Output type RGBHV (\pm), RGBS(-), RGSB (-)
Input level 2V to 5.5V p-p with ± 0.3 VDC offset (max.)
Output level 4V to 5V p-p
Input impedance 10 kohms
Output impedance 75 ohms
Max. input voltage 5.7V p-p
Max. propagation delay 48 nS
Max. rise/fall time 3.5 nS
Polarity
 RGB 560 AKM RGBHV Polarity follows input when RGBHV is input and the sync polarity switch is set to Off. Sync polarity is negative if the sync polarity switch is set to On.
 RGBS, RGSB Negative
 All other models RGBHV Polarity follows input when RGBHV is input and the bottom panel sync polarity jumper is set to follow (pin 1 jumpered to pin 2). Sync polarity is negative if the sync polarity jumper is set to negative (pin 2 jumpered to pin 3).
 RGBS, RGSB Negative

Audio

Gain Unbalanced 0dB, balanced +6dB
Frequency response 20 Hz to 20 kHz, ± 0.05 dB
THD + Noise 0.03% @1 kHz, 0.3% @ 20 kHz at rated maximum output drive
S/N >90dB at rated maximum output (14dBm), balanced
Stereo channel separation >95dB @ 1 kHz to 20 kHz

Audio input

Number/signal type	1 PC level stereo, unbalanced
Connectors	1 3.5 mm stereo jack, 2 channel; tip (L), ring (R), sleeve (ground)
Impedance	10 kohms, DC coupled
Maximum level	+8.5dBu,(unbalanced) at stated %THD+N

Audio output

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

General

Power	100VAC to 240VAC, 50/60 Hz, 5 watts, external, auto-switchable; to 12 to 24VAC or VDC, 0.20 A power supply. Product requires 0.20 A (minimum). (Order the power supply separately, part #70-055-01.)
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount	No
Furniture mount	Yes, or wall mount, with included hardware
Enclosure type	Metal
Enclosure dimensions — RGB 500, RGB 560	
Faceplate	4.5" H x 4.6" W x 0.1" D (2-gang) (11.4 cm H x 11.7 cm W x 0.3 cm D)
Interface enclosure	2.5" H x 3.7" W x 1.75" D (6.4 cm H x 9.4 cm W x 4.4 cm D) (Depth excludes connectors and knobs.)
Enclosure dimensions — RGB 500 Dual, RGB 508, RGB 560 Dual, RGB 568	
Faceplate	4.5" H x 8.3" W x 0.1" D (4-gang) (11.4 cm H x 21.1 cm W x 0.3 cm D)
Interface enclosure	2.5" H x 3.7" W x 1.75" D (6.4 cm H x 9.4 cm W x 4.4 cm D) (Depth excludes connectors and knobs.)
Enclosure dimensions — RGB 560 AKM	
Interface	3.0" H x 8.2" W x 1.5" D (7.62 cm H x 20.8 cm W x 3.8 cm D) (Depth excludes connectors and knobs.)
Product weight	
RGB 500, RGB 508, RGB 560	0.7 lbs (0.3 kg)
RGB 568, RGB 560 AKM .	0.9 lbs (0.4 kg)
Shipping weight	RGB 500, RGB 560 2 lbs (0.9 kg) All other models 3 lbs (1.4 kg)
Vibration	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings	UL
Compliances	RGB 560 AKM CE All other models CE, FCC Class A
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE Specifications are subject to change without notice.

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