

Specifications — RGB 508 AKM, RGB 558 AKM

Video input

Number/type	1 analog RGBHV, RGBS, RGsB, RsGsBs
Connectors — RGB 508 AKM .	1 9-pin D male, MBC/LBC cable or buffer
Connectors — RGB 558 AKM ..	1 15-pin HD male (Mac and Sun/SGI to VGA adapter cables are available.)
Nominal level(s)	Analog — 0.3V to 1.5V p-p
Maximum level(s)	Analog — 1.5V p-p
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 throughput

Gain	Unity (0.700V p-p), 0.725V p-p with 50% peaking, 0.750V p-p with 100% peaking
Bandwidth	300 MHz (-3dB)

Video output

Number/type/format	1 analog RGBHV, RGBS, RGsB
Connectors — Both models	5 BNC female
Connectors — RGB 558 AKM ..	1 15-pin HD female for buffered local monitor output
Nominal level.....	0.700V p-p, 0.725V p-p, 0.750V p-p
Impedance	75 ohms
Return loss	-30dB @ 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.....	2.0V to 5.5V p-p with ± 0.3 VDC offset (max.)
Output level	4.0V to 5.0V p-p
Input impedance	10 kohms
Output impedance	75 ohms
Max. propagation delay	48 nS
Max. rise/fall time	3.5 nS
Polarity	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 input

Number/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
Minimum level	100mV
Maximum level	+8.5dBu,(unbalanced) @ stated %THD+N

Audio throughput

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

Audio output

Number/type	1 stereo (2 channel), balanced/unbalanced
Connectors	3.5 mm stereo captive screw terminal, 5 conductor, for left and right output
Impedance	50 ohms, unbalanced, 100 ohms balanced
Gain error	±0.1dB channel to channel
Drive (600 ohm)	> +14dBu, balanced at stated %THD+N

General

Power	12 to 24VAC or VDC, 0.5 A, 5 Watts, external (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 +104°F (0° to +40°C) / 10% to 90%, non-condensing
Rack mount	No
Furniture mount	No
Enclosure type	Metal
Enclosure dimensions	
Faceplate	2.78" H x 7.94" W (7.06 cm H x 20.17 cm W)
Interface enclosure	3.08" H x 8.13" W x 1.62" D (7.82 cm H x 20.64 cm W x 4.12 cm D)
Shipping weight	3 lbs (1.4 kg)
Vibration	NSTA 1A in carton (National Safe Transit Association)
Approvals	UL, CE, FCC Class A
MTBF	30,000 hours
Warranty	2 years parts and labor

NOTE Specifications are subject to change without notice.

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