

# Specifications — DA2/4/6 RGBHV

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## Video

Gain.....	Unity (0 dB) or 1.1 dB (110%), switch-selectable When input = 0.7 V, output = 0.7 V or 0.8 V, respectively.
Peaking	
DA6 YUV A.....	0 dB
All other models.....	0 dB or +6 dB at 100 MHz, switch-selectable
Bandwidth.....	350 MHz (-3 dB), fully loaded
Differential phase error .....	<1.0° at 5 MHz
Differential gain error.....	<1.0% at 5 MHz

## Video input

Number/signal type.....	1 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video
Connectors .....	5 female BNC
Nominal level (at unity gain) .....	1.0 V <sub>p-p</sub> for Y of component video and S-video, and for composite video 0.7 V <sub>p-p</sub> for RGB, for R-Y and B-Y of component video 0.3 V <sub>p-p</sub> for C of S-video
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 V <sub>p-p</sub> with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 180 kHz
Vertical frequency.....	15 Hz to 170 Hz
Return loss.....	<-38 dB @ 5 MHz
DC offset (max. allowable).....	5.0 V (in AC coupling mode)
Input coupling.....	AC/DC, switch-selectable

## Video output

Number/signal type.....	2, 4, or 6 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (follows input type)
Connectors .....	(2, 4, or 6) x 5 female BNC
Nominal level .....	1.0 V <sub>p-p</sub> for Y of component video and S-video, and for composite video 0.7 V <sub>p-p</sub> for RGB, for R-Y and B-Y of component video 0.3 V <sub>p-p</sub> for C of S-video
Minimum/maximum levels.....	0.3 V <sub>p-p</sub> to 1.5 V <sub>p-p</sub> (follows input)
Impedance.....	75 ohms
Return loss.....	<-44 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset

## Sync

Input/output type .....	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync
Input level .....	Analog or TTL: 0.5 V to 5 V <sub>p-p</sub>
Output level.....	TTL: 5 V <sub>p-p</sub> , unterminated
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Max. input voltage.....	5.0 V <sub>p-p</sub>
Max. propagation delay .....	35 ns
Max. rise/fall time .....	4 ns
Polarity.....	Positive or negative (follows input)

## Control/remote

Contact closure .....	1 female 9-pin D connector
Contact closure pin configuration	Pin 1 = mute output #1, pin 2 = mute all outputs, pin 3 = reserved, pin 4 = mute output #2, pin 5 = GND, pin 6 = mute output #3, pin 7 = mute output #4, pin 8 = mute output #5, pin 9 = mute output #6

## Specifications — DA2/4/6 RGBHV, cont'd

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### General

Power .....	100 VAC to 240 VAC, 50-60 Hz, 10 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 .....	Convection, no vents
Mounting	
Rack mount	
DA2 RGBHV .....	Yes, with optional 1U rack shelf
DA4/6 RGBHV .....	Yes, with included mounting kit
Furniture mount	
DA4/6 RGBHV .....	Yes, with included mounting kit
Enclosure type .....	Metal
Enclosure dimensions	
DA2 RGBHV .....	1.7" H x 8.7" W x 9.4" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 23.9 cm D)
DA4/6 RGBHV .....	1.75" H x 17.5" W x 8.5" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 21.6 cm D) (Depth excludes connectors.)
Product weight	
DA2 RGBHV .....	2.0 lbs (0.9 kg)
DA4 RGBHV .....	3.7 lbs (1.7 kg)
DA6 RGBHV .....	3.9 lbs (1.8 kg)
Shipping weight	
DA2 RGBHV .....	4 lbs (2 kg)
DA4/6 RGBHV .....	7 lbs (4 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  $\pm 10\%$ .

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

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