

# Specifications

## SW2 VGA DA2 A/AF/AF R

### Video

Gain.....	Unity
Bandwidth .....	300 MHz (-3 dB)

### Video input

Number/signal type.....	2 VGA-QXGA RGBHV, RGBS, RGsB*, RsGsBs*, HDTV component video*
Connectors .....	2 VGA female 15-pin HD
Nominal level.....	1.0 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 .....	Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance.....	75 ohms
Horizontal frequency .....	15 kHz to 145 kHz
Vertical frequency.....	30 Hz to 170 Hz

### Video output

Number/signal type.....	2 buffered VGA-QXGA RGBHV, RGBS, RGsB*, RsGsBs*, HDTV component video*
Connectors .....	2 VGA female 15-pin HD
Nominal level.....	1.0 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 .....	0.4 V to 1.8 Vp-p (follows input)
Impedance.....	75 ohms

**NOTE:** \*RGB, RsGsBs, and HDTV component video inputs and outputs work in manual mode only. Autoswitching requires TTL level sync on pin 13 of the 15-pin HD connector.

### Sync

Input type .....	RGBHV, RGBS, RGsB*, RsGsBs*, bi-level and tri-level sync
Output type.....	RGBHV, RGBS, RGsB*, RsGsBs*, bi-level and tri-level sync
Input level .....	1.7 V to 5.0 Vp-p
Output level .....	TTL: 5.0 Vp-p, unterminated
Input impedance.....	510 ohms
Output impedance.....	50 ohms
Max. input voltage.....	5.0 Vp-p
Max. rise/fall time .....	40 ns
Polarity.....	Positive or negative (follows input)

### 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 at nominal level
S/N.....	>90 dB at maximum output (unweighted)
Crosstalk .....	<-65 dB @ 20 kHz, <-80 dB @ 1 kHz and below 60 Hz
Stereo channel separation.....	>80 dB @ 1 kHz
CMRR.....	>75 dB @ 20 Hz to 20 kHz

## Audio input

Number/signal type.....	2 stereo, unbalanced
Connectors.....	(2) 3.5 mm female stereo jacks
Impedance.....	>10k ohms, balanced/unbalanced, AC coupled
Nominal level.....	-10 dBV (316 mVrms)
Maximum level.....	+8 dBV, (balanced or unbalanced) at 1% THD+N

**NOTE:** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

## Audio output

Number/signal type.....	1 stereo, balanced/unbalanced
Connectors.....	(1) 3.5 mm captive screw connector, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Gain error.....	±0.1 dB channel to channel
Nominal level.....	-2 dBu balanced, -10 dBV (316 mVrms) unbalanced
Maximum level (Hi-Z).....	>+16 dBu, balanced; >+8 dBV, unbalanced at 1% THD+N
Maximum level (600 ohm).....	>+10 dBm, balanced; >+4 dBV, unbalanced at 1% THD+N

## Control/remote – switcher

Contact closure .....	Momentary, on a 3.5 mm captive screw connector
Contact closure pin configurations .	1 = input #1, 2 = input #2

## General

### Power

SW2 VGA DA2 A/AF .....	100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A power supply, regulated
SW2 VGA DA2 A/AF's power input requirements	12 VDC, 0.2 A
SW2 VGA DA2 AF R.....	100 VAC to 240 VAC, 50-60 Hz, 12 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

SW2 VGA DA2 A/AF.....	Yes, with optional 1U rack shelf
SW2 VGA DA2 AF R.....	Yes, with included rack mounting kit

#### Furniture mount

SW2 VGA DA2 A/AF.....	Yes, with included under-desk mounting kit
SW2 VGA DA2 AF R.....	Yes, with optional under-desk mounting kit

#### Pole mount

SW2 VGA DA2 A/AF.....	Yes, with optional PMK 200 pole mount kit
SW2 VGA DA2 AF R.....	Yes, with optional PMK 200 pole mount kit

Enclosure type..... Metal

### Enclosure dimensions

SW2 VGA DA2 A/AF .....	1.0" H x 8.75" W x 3.0" D 2.5 cm H x 22.2 cm W x 7.6 cm D (Depth excludes connectors.)
SW2 VGA DA2 AF R.....	1.75" H x 17.4" W x 3.0" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 7.6 cm D (Depth excludes connectors.)

### Product weight

SW2 VGA DA2 A/AF .....	1.1 lbs (0.5 kg)
SW2 VGA DA2 AF R.....	2.6 lbs (1.2 kg)

### Shipping weight

SW2 VGA DA2 A/AF .....	4 lbs (2 kg)
SW2 VGA DA2 AF R.....	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, KCC, VCCI

Warranty ..... 3 years parts and labor

**NOTE:** All nominal levels are at  $\pm 10\%$ .

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

8.1-061314-D8