

# 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<br>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<br>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<br>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<br>2.5 cm H x 22.2 cm W x 7.6 cm D<br>(Depth excludes connectors.)                            |
| SW2 VGA DA2 AF R.....  | 1.75" H x 17.4" W x 3.0" D (1U high, full rack wide)<br>4.4 cm H x 44.2 cm W x 7.6 cm D<br>(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.

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