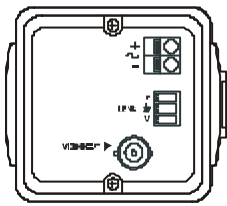


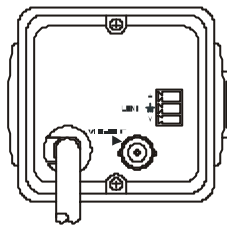
CDSP9310 and CDSP9310/LV



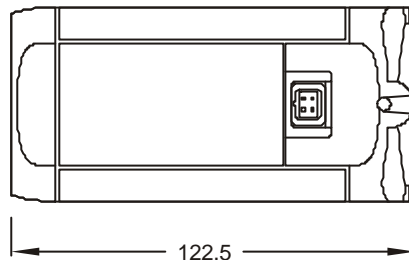
- Mid-Range DSP Colour Camera
- PAL (NTSC available)
- 1/3" CCD
- High Resolution



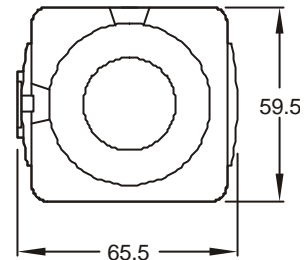
Low Voltage Models



Mains Voltage Models



122.5



59.5

65.5

Camera Features

Sensor

1/3" Sony Hyper HAD™ CCD

Effective Pixels

752 (H) x 582 (V)

Sensitivity

0.7 Lux at F1.2 with AGC on (80% scene reflectance) at 40 IRE for usable picture

Resolution

480 TVL

Video Output

1V p-p composite video via 75Ω BNC connector on the rear of the camera; PAL: 625 lines 50 fields per second 2:1 interlace

Signal to Noise Ratio

Better than 48dB

White Balance

Auto tracing

AGC

Built in 28dB

Electronic Iris

1/50s - 1/100,000s - selectable On/Off via a dip switch

Backlight Compensation

BLC selectable On/Off - weighted to centre third of scene

Gamma Correction

User-selectable 1.0 or 0.45 via a dip switch

Synchronisation System

Line lock - the option to switch to internal synchronisation is provided via a dip switch

Adjustable V phase

The line lock vertical phase may be adjusted by ±120°

CDSP9310 and CDSP9310/LV

Specification

Lens Options

Manual

Any 'C' or 'CS' mount 1/3", 1/2", 2/3" or 1" lens

Auto Iris (video drive)

Via 3 way, two part terminal block at the rear of the camera

Direct Drive (DC iris)

4-pin square type socket on the side of the camera; DC level is user defined via a potentiometer located next to the socket

Power Supply

Low Voltage version

14 - 30V AC; 11 - 40V DC

Mains version

230V AC, +6% -10%, 50Hz

Input Power Isolation

Fully isolated power supply

Power Consumption

Less than 4W

Mechanical

Lens Mount

C/CS via racking back focus mechanism with two adjustment points (top and side)

Camera Mount

1/4-20 UNC or 1/4" BSW (top or bottom)

Dimensions

122.5 (L) x 59.5 (H) x 65.5 (W) mm

Weight

Mains 0.6kg; low voltage 0.35kg

Material

Die-cast zinc lens mount; extruded aluminium body; flame retardant ABS plastic front trim, rear bezel and door

Environmental

Operating Temperature

-10°C to +50°C (14°F to 122°F)

Operating Humidity

20% to 80% relative humidity, non condensing

Storage Temperature

-10°C to +70°C (14°F to 158°F)

Storage Humidity

20% to 90% relative humidity, non condensing

Architectural Specification

The colour camera specified shall incorporate a 1/3" format interline transfer CCD with 752(H) x 582(V) effective pixels. The camera shall produce a horizontal resolution of better than 480 television lines / picture height and have a signal to noise ratio of better than 48dB under normal operating conditions and no additional gain. The camera shall be capable of providing a usable image at a scene illumination of 1.0 Lux using an F1.2 lens. The camera shall have Automatic Gain Control. The camera shall have the capability for Auto Iris (Video Iris) and Direct Drive (DC driven Iris) lenses. In addition it shall also have the capability for Electronic iris (or automatic shutter speed) for fixed aperture lenses operating within the range 1/50 - 1/100000s. The camera shall have the Electronic iris selectable on/off. The camera shall have back light compensation selectable on/off. The camera shall have selectable gamma settings of 1.0 and 0.45. The camera shall be capable of line locking to the external 50Hz mains phase or low voltage 50Hz AC power supply. It shall also be capable of phase correction of $\pm 120^\circ$ for correct installation in 3 phase environments. The camera shall have the facility to be internally synchronised. The camera shall have provision for back focus adjustments via one of two simple screwdriver gears. This shall provide sufficient range for mounting of both C and CS type lenses without requiring an additional spacer ring. The camera shall provide a standard PAL composite video signal of 1V p-p when terminated with 75 Ω . Connection shall be via a 75 Ω BNC connector. The camera shall have mounting points both top and bottom for 1/4-20 UNC or 1/4" BSW. The camera shall operate when powered by 230V AC +6% -10% (mains version). The camera shall operate when powered by either 11-40V DC or 12-30V AC (LV version). The camera's dimensions shall not exceed 122.5 (L) x 59.5 (H) x 65.5 (W) mm. The camera shall be a Baxall CDSP9310 or CDSP9310/LV.

