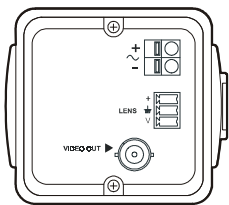




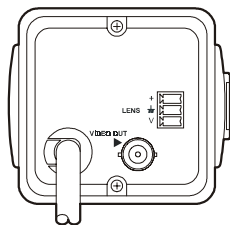
# CDSP9307 and CDSP9307/LV



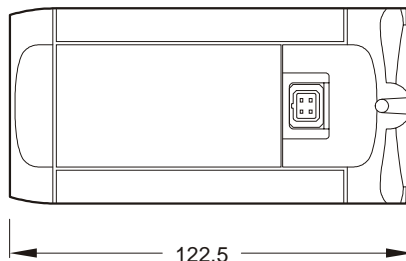
- Mid-Range DSP Colour Camera
- PAL (NTSC available)
- 1/3" CCD
- Medium Resolution



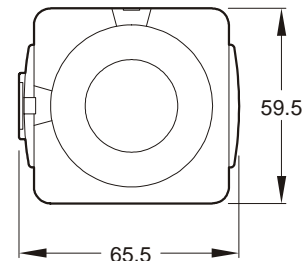
Low Voltage Models



Mains Voltage Models



122.5



65.5

59.5

## Camera Features

<b>Sensor</b>	1/3" Sony Hyper HAD™ CCD
<b>Effective Pixels</b>	500 (H) x 582 (V)
<b>Sensitivity</b>	0.08 Lux at F1.2 with AGC on (80% scene reflectance) at 40 IRE for usable picture
<b>Resolution</b>	330 TVL
<b>Video Output</b>	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
<b>Signal to Noise Ratio</b>	Better than 48dB
<b>White Balance</b>	Auto tracing
<b>AGC</b>	Built in 28dB
<b>Electronic Iris</b>	1/50s - 1/100,000s - selectable On/Off via dip a switch
<b>Backlight Compensation</b>	BLC selectable On/Off - weighted to centre third of scene
<b>Gamma Correction</b>	User-selectable 1.0 or 0.45 via a dip switch
<b>Synchronisation System</b>	Line lock - the option to switch to internal synchronisation is provided via a dip switch
<b>Adjustable V phase</b>	The line lock vertical phase may be adjusted by ±120°

## Specification

## CDSP9307 and CDSP9307/LV

### Lens Options

#### Manual

#### Auto Iris (video drive)

#### Direct Drive (DC iris)

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

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

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

### Mains version

### Input Power Isolation

### Power Consumption

12 - 30V AC; 11 - 40V DC

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

Fully isolated power supply

Less than 4W

## Mechanical

### Lens Mount

### Camera Mount

### Dimensions

### Weight

### Material

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

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

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

Mains 0.6kg; low voltage 0.35kg

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

## Environmental

### Operating Temperature

### Operating Humidity

### Storage Temperature

### Storage Humidity

-10°C to +50°C (14°F to 122°F)

20% to 80% relative humidity, non condensing

-10°C to +70°C (14°F to 158°F)

20% to 90% relative humidity, non condensing

## Architectural Specification

The colour camera specified shall incorporate a 1/3" format interline transfer CCD with 500(H) x 582(V) effective pixels. The camera shall produce a horizontal resolution of better than 330 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 synchronized. 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 $\Omega$ . Connection shall be via a 75 $\Omega$  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 CDSP9307 or CDSP9307/LV.

