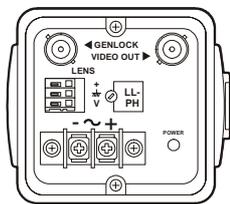


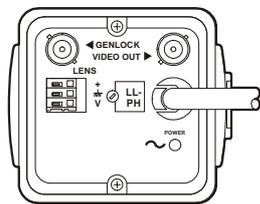
# CD9230A and CD9230A/LV



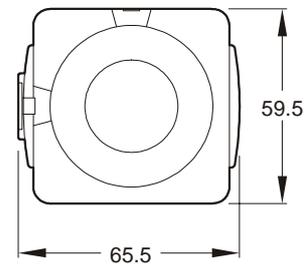
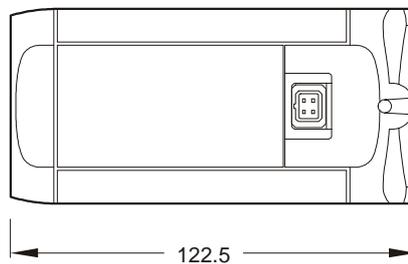
- Analogue Monochrome Camera
- CCIR (EIA available)
- 1/3" CCD
- Medium Resolution



Low Voltage Models



Mains Voltage Models



## Camera Features

<b>Sensor</b>	1/3" Sony Hyper HAD™ CCD
<b>Effective Pixels</b>	500 (H) x 582 (V)
<b>Sensitivity</b>	0.1 Lux for usable picture with lens at F1.2 with AGC on (80% scene reflectance) at 40 IRE
<b>Resolution</b>	380 TVL
<b>Electronic Shutter Speeds</b>	1/50, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/100,000 and Flickerless
<b>Video Output</b>	1V p-p composite video via 75Ω BNC connector on the rear of the camera; CCIR: 625 lines 50 fields per second 2:1 interlace
<b>Signal to Noise Ratio</b>	Better than 48dB
<b>Sharpness</b>	On/Off - selectable via a dip switch
<b>AGC</b>	Off/24dB/32dB - selectable via dip switches
<b>Electronic Iris</b>	1/50s - 1/100,000s - selectable On/Off via dip switches
<b>Backlight Compensation</b>	BLC selectable On/Off - weighted to the centre third of scene
<b>Gamma Correction</b>	User-selectable 0.8 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>Genlock</b>	BNC connector for externally generated synchronisation signal
<b>Adjustable V phase</b>	The line lock vertical phase may be adjusted by ±120°

## Specification

### CD9230A and CD9230A/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 a 3 terminal, quick release connector 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 5W

## 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 black and white 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 380 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 0.1 Lux using an F1.2 lens. The camera shall have selectable Automatic Gain Control with two gain levels. The camera shall have selectable sharpness to offer increased edge enhancement. The camera shall have the capability for Auto Iris (Video Iris) and Direct Drive (DC driven Auto 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 be capable of operating at the following discrete shutter speeds 1/50, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000, 1/100000 of a second, to enable clear capture of fast moving objects. The camera shall have back light compensation selectable on/off. The camera shall have selectable gamma settings of 0.8 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, or to synchronise to an external composite video or composite sync (genlock) input via a BNC connector. 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 CCIR 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 CD9230A or CD9230A/LV.

