

# CDH6223 - Day/Night Camera



## Preliminary data sheet



- **Filter switching for maximum day/night performance**
- **1/2" EXviewHAD™ CCD.**
- **On screen menus accessible at the camera or remotely**
- **10 bit A/D for clearer images.**
- **Peak white inversion**
- **Motorised back focus for simpler, faster installations.**
- **Selectable auto black**

The CDH6223 camera is a day/night camera with a difference. It has two optical filters; one for colour operation and one for monochrome to give no compromise performance 24 hours a day. The camera switches the optical filters as necessary into the optical path between CCD and lens. The colour filter prevents unwanted IR light reaching the CCD and keeps the colour reproduction accurate. The monochrome filter passes IR allowing the ExviewHAD CCD to become responsive to both near and far IR illumination.

### Camera Features

<b>Sensor</b>	1/2" Sony ExviewHAD™ CCD
<b>Effective Pixels</b>	752 (H) x 582 (V)
<b>Sensitivity</b>	0.4 lux colour, 0.07 lux monochrome. For usable picture (40 IRE) with AGC on. Lens at F1.2, 80% scene reflectance.
<b>Resolution</b>	480 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, Indoor, Outdoor, Fluorescent, User (Red & Blue adjust)
<b>AGC</b>	Off, 8,16, 18, 20, 22, 24, 32dB
<b>Electronic Iris</b>	1/50s ~ 1/100,000s
<b>Backlight Compensation</b>	5 windows can be moved, resized and assigned weightings to allow completely configurable BLC
<b>Gamma Correction</b>	5 levels
<b>Synchronisation System</b>	Full colour Genlock (H, V & SC adjustment), Internal or Line lock (360° adjustment)
<b>Auto Black</b>	Selectable with level adjust
<b>Peak White Inversion</b>	With adjustable threshold
<b>Shutter Speeds</b>	1/50, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10,000, Flickerless
<b>Camera ID</b>	12 characters, alphanumeric.

**Lens Options**

<b>Manual</b>	Any 'C' or 'CS' mount 1/2", 2/3" or 1" lens. <b>NB</b> lens is not supplied
<b>Auto Iris (video drive)</b>	Via 3 way, two part terminal block at the rear of the camera
<b>Direct Drive (DC iris)</b>	4-pin square type socket on the side of the camera

**Power Supply**

<b>Low Voltage Version</b>	12 ~ 30V AC; 11 ~ 40V DC
<b>Input Power Isolation</b>	Fully isolated power supply
<b>Power Consumption</b>	Less than 4W

**Mechanical**

<b>Lens Mount</b>	C/CS via back focus mechanism with motorised adjustment.
<b>Camera Mount</b>	1/4-20 UNC or 1/4" BSW (top or bottom)
<b>Dimensions</b>	? (L) x ? (H) x ? (W) mm
<b>Weight</b>	?kg
<b>Material</b>	Die-cast zinc lens mount; extruded aluminium body; flame retardant ABS plastic front trim, rear bezel and door

**Environmental**

<b>Operating Temperature</b>	-10°C to +50°C (14°F to 122°F)
<b>Operating Humidity</b>	20% to 80% relative humidity, non condensing
<b>Storage Temperature</b>	-10°C to +70°C (14°F to 158°F)
<b>Storage Humidity</b>	20% to 90% relative humidity, non condensing