EXview Colour DSP

CDX9714



PRELIMINARY DATASHEET

PAL 1/2" CCD Low Light Performance Colour Camera



SPECIFICATIONS

Sensor: 1/2" Sony EXview HADTM CCD with micro-lens over each pixel.

Effective Pixels: 752 (H) x 582 (V).

Sensitivity: 0.4 lux. For usable picture with lens at f1.2 with AGC (80% scene reflectance).

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.

S-VHS video output provided giving a Y/C separated video signal. 4 pin mini-DIN connector has:

Y=0.7V p-p, 75Ω. C= 0.3V, 75Ω.

Signal to Noise Ratio: Better than 48dB.

White Balance: Auto Tracing, Indoor, Outdoor, Fluorescent selectable via dip switches.

AGC: Built in 28dB. Selectable On/Off.

Electronic Iris: 1/50s – 1/10,000s. Selectable On/Off via dip switches.

Backlight Compensation: BLC selectable On/Off. 8 user selectable configurations.

Gamma Correction: User-selectable 1.0 (linear) or 0.45 (normal) via a dip switch.

Sync System: Genlock, line-lock or internal.

Genlock synchronises the camera to another video signal or synctrain A BNC connector is provided on the rear of the camera for this purpose.

Line-lock. In line-lock the setting of the V Phase can be set to fixed or adjustable. 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 $\pm 120^{\circ}$.

Peak White Inversion: Selectable On/Off with adjustable threshold.

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Lens Options:

Manual: Any 'C' or 'CS' mount ½, 2/3" or 1" lens.

Auto Iris (video drive): Via 3 terminal, spring loaded, quick release connector at rear of camera.

Auto Iris (DC drive): 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: CDX9714: 98 - 260V AC

CDX9714/LV: 12-30V AC, 11-40V DC

Input Power Isolation: Fully isolated power supply.

Power Consumption: Less than 5W.

Mechanical Specifications:

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 and bottom).

Dimensions: 137.5 (L) x 59.5 (H) x 65.5 (W) mm.

Weight: 0.6 Kg

Material: Die-cast zinc lens mount. Extruded aluminium body. Flame retardant ABS plastic front trim, rear

bezel and door.

Environmental (Temperature and Humidity):

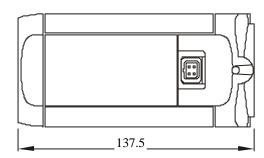
Operating: Temperature: -10 to +50°C (14 to 122°F)

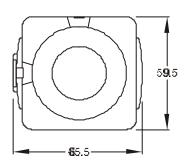
Humidity: 20% to 80% relative humidity, non condensing.

Storage: Temperature: $-10 \text{ to } +70^{\circ}\text{C} \text{ (14 to } 158^{\circ}\text{F)}$

Humidity: 20% to 90% relative humidity, non condensing.

Physical Dimensions:





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