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DIVERS HAT MOUNT CAMERA CC620ZX1SS



The CC620ZX1SS is a high resolution Digital Colour Camera (underwater use), manufactured from Stainless Steel 316. The Camera has a depth rating of 1500ft and is designed for harsh and unpredictable low light MSW. The CC620ZX1SS is equipped with a specially developed circuitry by Chalco Eleven known as the electric eye.

The CC620ZX1SS's inbuilt electronic eye will monitor light levels and automatically adjust to the environment. The Camera will work down to 4 Lux producing clear, sharp colour images. The Camera decides which light wavelength is the strongest and uses that to illuminate its image. Below 4 lux the Camera will turn to monochrome producing high resolution images and as soon as the light level increases it will revert to colour.

The maximum sensitivity of the CC620ZX1SS is 850nm wavelength. Due to its digital processing and the high scanning rate, the Camera is ideal for viewing objects in motion which is suitable for ROVs and mounting on the Divers Hat or hand held as an Inspection Camera. Blurring is totally eliminated. The CC620ZX1SS will produce high resolution colour pictures (greater than 470 TVL) even at very low light levels. The Camera is provided with a wide angle lens enabling the user to view a very large area with a single Camera without having to adjust any controls. Focusing is automatically corrected.

It should be noted that due to the very high performance of the CC620ZX1SS (a high resolution Digital Processing Colour Camera), a high resolution Colour Monitor (greater than 470 TVL) is required to match the performance of the Camera. The CC620ZX1SS comes in a PAL format although NTSC is optional.

The Camera is generally used with a CE Underwater Hat Mount Dichroic Light System as illustrated above. This enhances the underwater visibility and replaces colours that are quickly lost due to the depth of water and the absence of natural light. The CC620ZX1SS is fitted with a 75? coax line driver that can deliver signals up to 600M of Cable (twisted pair is optional).

The intensity of the Underwater Light is adjustable from the control panel and can be adjusted from 0-100% providing good general lighting for most types of work. The Underwater Light is fitted with a tungsten halogen 50 watt filament to complement the Camera and produces a beam angle greater than 120°.

CAMERA SPECIFICATIONS

1/4" ExView DSPCCD Chip
Better than 470 TV Lines
Electrical Auto Iris
Automatic White Balance Control
Colour and Monochrome
Auto Focus
12 - 24V AC/DC @ 350mA (Camera)

Total Pixels 795H x 596V
Automatic Gain Control
Lens Angle 45°
Composite Video 1V p-p
50mm D x 90mm L excluding connector (Camera)
50mm D x 90mm L excluding connector (Light)
Working Depth of 1500ft MSW

Camera Connection

Pin 1 Video Screen
Pin 2 Video
Pin 3 + 12V
Pin 4 -12V

Light Connection

Pin 1 - 12V
Pin 2 + 12V