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65 mm BORASCOPE CAMERA HEAD CHB65MM



The CHB65MM is a high resolution Digital Colour Camera designed for underwater / Pipe Line Inspection use. The Camera has a depth rating of 300ft MSW and is designed for harsh and unpredictable low light environment. The CHB65MM is equipped with a specially developed circuitry by Chalco Eleven known as the electric eye and also incorporating high intensity SMD LED's for daylight illumination.

The CHB65MM 's inbuilt electronic eye will monitor light levels and automatically adjust to the environment. The Camera will work down to 3 Lux producing clear, sharp colour images. The Camera decides which light wavelength is the strongest and uses that to illuminate its image. Below 3 Lux the Camera will turn to monochrome

(0.012 lux) producing high resolution images and as soon as the light level increases it will revert to colour.

The maximum sensitivity of the CHB65MM is 950nm wavelength. Due to its digital processing and the high scanning rate, the Camera is ideal for viewing objects in motion and therefore suitable for ROVs and mounting on Divers Hat or hand held and as an Pipe Line Inspection Camera. Blurring is totally eliminated. The CHB65MM will produce high resolution colour pictures (greater than 700 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 CHB65MM (a high resolution Digital Processing Colour Camera), a high resolution Colour Monitor (greater than 700 TVL) is required to match the performance of the Camera. The CHB65MM comes in a PAL format although NTSC is optional.

The intensity of the Camera's LED Light is adjustable from the control panel and can be adjusted from 0-100% providing good general lighting for most types of Inspection. The SMD LED's fitted with in the Camera produce equivalent to 50 watt tungsten halogen filament to complement the Camera and produces a beam angle greater than 120°. and the objects can be illuminated as far as 4-5 metres away from the Camera Head

CAMERA SPECIFICATIONS

1/3" CCD Interline Transfer Type
Greater than 700 TV Lines
Electrical Auto Iris
Automatic White Balance Control
Colour
15V DC @ 500 mA
Working Depth of 300ft MSW

Total Pixels ~ 470K
Automatic Gain Control
Lens Angle 3.6mm F2.0
Composite Video 1V p-p
65mm D x 90mm L

Camera Connection

Pin 1 Video Screen
Pin 2 Video
Pin 3 + 15 - 24V DC
Pin 4 - 0V

Light Connection

Pin 5 0V
Pin 6 +15-24V DC