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## FISH-TAIL COLOUR CAMERA CC-412L



The CC-412L is a high resolution Digital Processing Colour Camera with LED Lighting. It is designed to be used in confined spaces and is small enough to go through 40mm<sup>2</sup> aperture of the mesh. The Camera is shaped like a fish so that it can penetrate and be pulled back through the mesh without getting snagged. It can also handle harsh and unpredictable environments. Its integrated lighting system allows the Camera to be used for low light underwater use. The Camera has a depth rating of 1500ft MSW.

The Camera produces a broadcasting quality video in PAL format (composite video 1v p/p @ 75Ω). The CC-412L has a wide viewing angle (85° in air) and has fixed focus from 5” to infinity. Its internal lighting can reach well past 1M in low light areas producing a sharp, well lit image on the screen.

The CC-412L is equipped with a specially developed circuitry by Chalco Eleven known as the electric eye. The inbuilt electronic eye will monitor light levels and automatically adjust to the environment. If the light levels fall below 0.3 lux @ F1.4 the Camera decides which light wavelength is the strongest and uses that to illuminate its image.

The housing is manufactured mostly from stainless steel with a two part acrylic face. The LED lighting and the lens is placed on the back.

For lighting of longer distances, the camera should be used with CE-24/20LED Underwater Solid State Lighting System (see separate Data Sheet). 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 CE-24/20LED Light produces a wide beam angle, the light output is totally distributed thus eliminating hot spots allowing the user to go close up to its object.

The intensity of the Solid State Lights provide good general lighting for most types of work. Each Light Unit produces approximately 35 watts of halogen equivalent at 90° beam angle and only consumes 300mA @ 24V DC. Life expectancy : over 50,000 hours. As there are no filaments, it can withstand vibrations and direct hit without damaging the Light.

### CAMERA SPECIFICATIONS

1/3" ExView CCD chip  
Automatic Gain Control  
Electronic Auto Iris  
Auto-White Balance Control  
0.3 lux Colour

Total Pixels 720 x 576  
6 LED Lights  
12-24V DC @ 350 mA  
38mm D x 145mm L  
Working Depth of 1500ft MSW

### 4PIN CONNTOR

Pin : 1	Screen	Black
Pin : 2	Video	White
Pin : 3	12-24v+	Red
Pin : 4	0V	Green