

# Camera & Hat Light Control Unit



## COMMERCIAL DIVE SYSTEM PRODUCTS

### Key Features:

- Standard 19" X 3U rackmount
- Built in configurable video overlay
- Adjustable DC power to Camera & Light
- Remote control via RS232 or Ethernet
- Comprehensive diagnostics
- Audio-visual alarm
- LIM protected



### Product Overview:

The Camera & Hat Light Control Unit is intended for installation in diving system control rooms where the operator controls the equipment supplying the diver with power, communications and breathing gas.

- Adjustable DC Power supply to Diver's helmet mounted video camera, adjustable to suit different camera operating voltages
- Adjustable DC power supply to Diver's helmet mounted light, adjustable to allow the output intensity to be 'dimmed' to a desirable brightness.
- Process returned video signal from camera, either as balanced-line or unbalanced coaxial signal, to automatically provide corrections for video signal losses over the camera cable
- Provide a configurable text overlay on the video signal, allowing automatic or User generated text information to be superimposed upon the camera's video signal
- Provide protection of the Diver from electrical shock by using a Line Insulation Monitor (LIM) to continuously monitor the condition of the electrical insulation of the camera and hat light and supply cables



## Power Output

- Camera 12V/15V/24V DC Max 2A
- Hat Light 0-36V DC Max 1A

## Power Requirements

- 90-260V AC
- 47-63Hz
- 80W Max

## Compliance:

- 2004 DNV-OS-E402
- AODC for Safe use of Electricity Underwater

## Connections:

- IEC Mains Input (Fused)
- Amphenol 19-Pin Socket for connections to Camera & Hat Light
- Ethernet RJ45 Network Connector
- Video Output 75-Ohm BNC Connector (without video overlay)
- Overlay Output 75-Ohm BNC Connector (Video with text overlay)
- Serial port connector (9-Pin D-Sub male)
- Amphenol 6-pin male connector for incandescent hat light expansion option

## Dimensions:

- 28HP wide 3U (3 Per Standard 19" Rack)
- 273 x 142 x 129mm

## Controls:

- Light Intensity via Control knob
- Maximum Output Current (Max 1A)
- Camera Focus (Front Control or remote via Ethernet or Serial)
- Camera Zoom

## Video Output:

- Standard 625-Line 50-Field PAL
- On Request can be adjusted for other formats such as NTSC or SECAM
- Equalised to reconstruct signals transmitted up to 1000m

## Diagnostic Displays:

- DC Supply information
- Internal Voltages
- Light Intensity, Control and Output
- Camera Supply, Output and Current
- General System information