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## Aquabeam Helmet Light DHL-4

**The Aquabeam DHL-4 is a tough, compact luminaire, based on its forerunner, the DHL-3P and incorporating several additional features, designed in keeping with suggestions by users of the original.**

The unique, spring loaded lamp holder is retained from the DHL-3P. This presses the 35mm. reflector lamp firmly into a reduced register within the inboard face of the modified, borosilicate lens, thus, maintaining good, permanent, electrical contact between lamp and holder (socket), whilst the unit remains assembled. The acrylic bezel has been replaced with a hard anodised, aluminium component, allowing a reduced diameter, to present a slimmer, less bulky protrusion from the helmet.

The body of the luminaire remains in corrosion resistant acrylic, however. And since this is closed by the lens, isolating the metal bezel from the lamphouse, the complete assembly remains within the 'Class 2' insulation category, obviating the requirement for earthing (grounding). DHL-4 is offered with 2 or 4 contact connector.

When the latter is fitted, two pairs are joined in parallel, within the luminaire; one for the transmission of power and the other to provide for the monitoring of lamp voltage at the surface.

The DHL-4 is supplied with the same universal fixing, helmet bracket as accompanies the DHL-3P. This is formed from 1.5mm. (0.060"), stainless steel (316) and may be bent, by hand, for orientation of the luminaire. An alternative, 'stay-put', friction mount is now available, however.

This presents a similar, universal, helmet fixing and incorporates a ball joint with adjustable, spring loaded, friction plate. The latter is pro-set and allows the diver to position and reposition his helmet light, using one hand, with no requirement for any fixing, or clamping action.

Adjustment of frictional hold on the ball joint is effected using a regular Allen key (wrench). The FBO1 stay-put bracket is manufactured from stainless steel and nickel plated brass and may be used to interface the diver's helmet lights, DHL-3P and DHL-4 with most modern faceplate bezels.

### Ordering Advice

The DHL-4 is supplied without lamp, with fixed, universal mounting bracket and with 2 or 4 contact connector, type ARMG-MP and should be described: DHL-4/2 or DHL-4/4.

Reflector Lamps should be described by the codes given within the adjacent list.

Stay-Put, Friction, Helmet Brackets may be ordered as such, or by the code FBO1. These may be fitted to both DHL-3P and DHL-4 luminaires.

Replacement Components for both the DHL-3P and DHL-4 helmet lights, should be ordered by the part codes listed on page two of this data sheet.

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### Specification

#### Materials

Black acrylic; aluminium HE30 (hard anodised); borosilicate glass; stainless steel 316; synthetic rubber (neoprene); ceramic.

**Note:** DHL-3P bezel is manufactured from acrylic and that of DHL-4 from aluminium.

#### Electrical

**Supply Voltage:** 12Vdc

**Current Consumption:** 1.6A (20W), 2.9A (35W)

**Typical Luminous Flux:** 250lm

**Typical Colour Temperature:** 3000K

**Lamp Life:** 2000 Hours

#### Dimensions

**Max. dia:** 60mm (2.36")

**Length:** 89mm (3.5") excluding cable penetrator.

**Dry weight:** 400 grams (0.88 lb).

**General Test Pressure:** 30 Bar (450 psi).

**Connector:** penetrator with short cable, terminating in ARMG-2-MP or ARMG-4-MP, with high impact, polystyrene locking sleeve (alternative connectors and or longer cable, fitted to order).

**Lamps:** 12 volt, 35mm. reflector lamps at 20 and 35 watts (max).

### STAY-PUT HELMET BRACKET TYPE FBO1

**Materials:** stainless steel 316 and nickel plated brass.

**Dry Weight:** 200 grams (0.44 lb).

### Reflector Lamps

Volts	Watts	Average Beam Angle		Order Code
		(immersed)	Code	
12	20	5.50	M64 (FTA)	LA206
12	20	7.50	M52 (FTB)	LA207
12	20	130	M51 (FTC)	LA208
12	20	22.50	M62 (FTD)	LA209
12	35	60	M65 (FTE)	LA210
12	35	150	M66(FTF)	LA211

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#### Aquabeam DHL-4 c/w 2 Pin Male Connector

Order Code LA157AC

#### 'Stay-Put' Friction Bracket

Order Code LA155

#### Aquabeam Universal Helmet Bracket

Order Code LA156

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