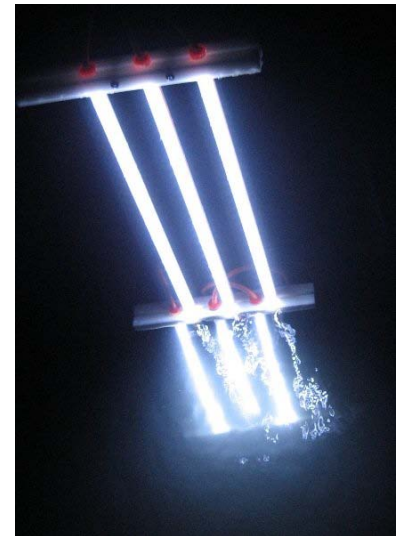


UW LED-Light

High-Power LED floodlight

New generations of high-power LEDs open new dimensions for underwater lights. Long shining durations, 600 bar high pressure operating depths and bright lights are suitable for industrial or scientific tasks.

- ▶ More light for your ROV pilot
- ▶ Wider shining areas for your experiments
- ▶ Full ocean depth without any pressure housing
- ▶ Operates with any unregulated 12 power supply
- ▶ Small size, low weight, dismountable
- ▶ Low-cost and high reliability



Light source	High-power LEDs
Type	Customized floodlight. High current LED spots are available.
Housing	Acryl pressure compensated by a sealing compound. Can be divided into multiple strings for easy dismounting and small package size.
Size	Customized. Single light tubes 20 mm OD. In the picture: 6 strings 500mm each, total length 1m
Weight	Approx. 750 g per meter. Density for seawater applications: 1.2 kg/l
Voltage supply	8V ... 14V, or customized
Current supply	360 mA per meter @12V (4.3W)
Colour	Customized: White
Intensity	51 cd per meter. Picture: 3m = 153cd, the intensity is more then to a 100W lamp (130cd)
Luminous flux	140 lm per meter.
Oper. temperature	-20°C ... +70°C
Regulation	By controlling the supply voltage, e.g. the voltage or PWM (not included)



Example of a scientific underwater laboratory "BubbleBox" to explore gas bubbles from methane hydrate deposits in 2000m. A HD camera takes photos from inside of shadow-free water. Operated by MARUM ROV "Quest". Our attached PowerPack™ with our ROV switch supports the "BubbleBox" for 40 hours with energy. © Images by IOW and MARUM.

