



**VISATEC**  
PART OF ISEC

# VT 800 PL LED

## lighting system

### brochure



## VT 800 PL LED nuclear lighting system

Radiation resistant lighting system for perfect illumination of large spent fuel pools from the air and under water

### Features

- ▶ High illumination with an output of 95,000 lm
- ▶ Watertight up to 50 m
- ▶ Overheating protection
- ▶ LED light continuously dimmable
- ▶ High radiation resistant with optional non-browning glass
- ▶ Various frames and holders available, according to customer needs

### Applications

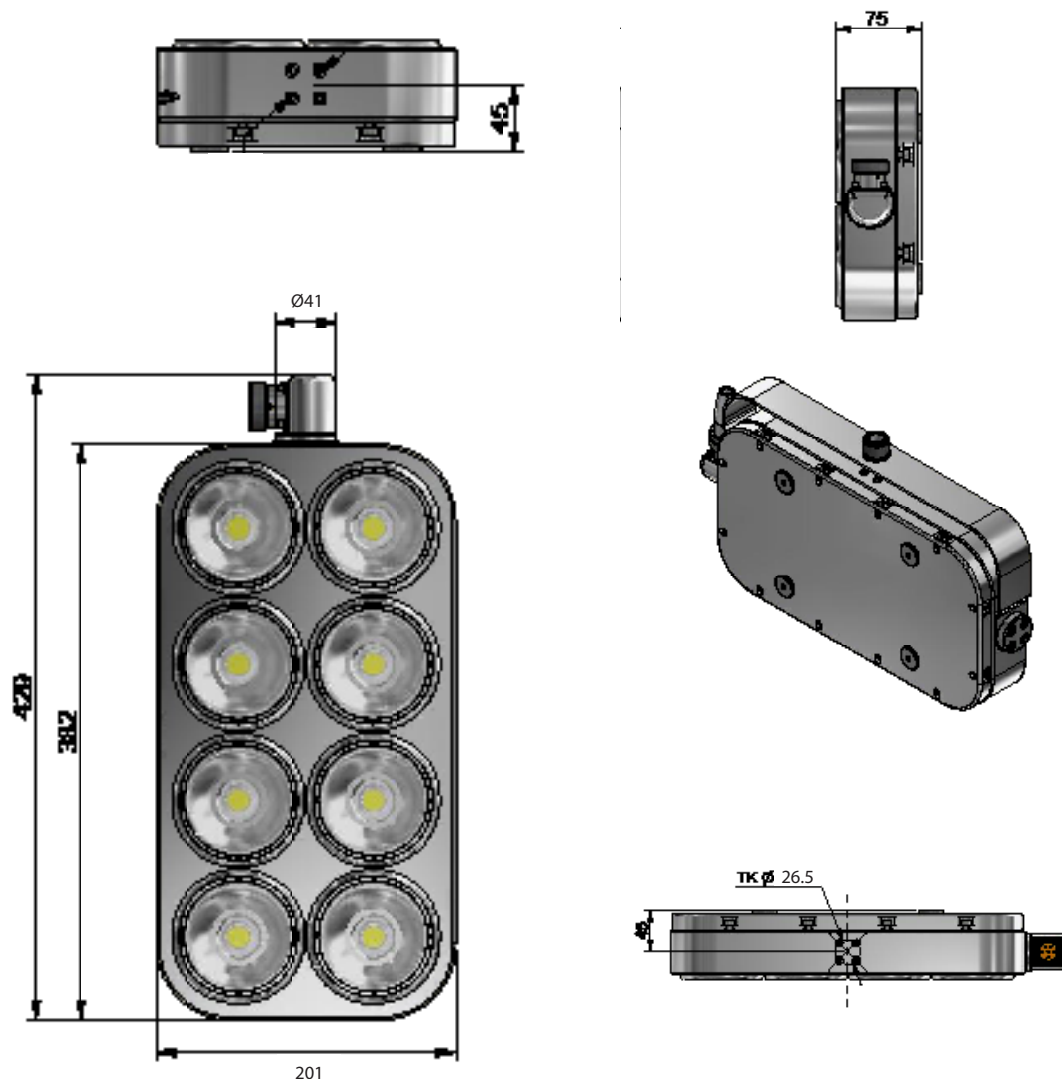
- ▶ Powerful, mobile lighting unit for illumination of all under-water and in-air applications where optimal visibility is needed
- ▶ Perfectly suited for all manners of longer illumination tasks in
- ▶ reactor vessels or fuel pools
- ▶ Due to its internal temperature control features, it can also be used in-air with automatically controlled illumination intensity
- ▶ The FME approved design guarantees no loose parts in pool water

## Technical specifications - VT 800 PL LED lighting

This document is for general information only, please consult the system manual for detailed specifications

Material	stainless steel
Dimension (WxHxD)	429x201x75 mm
Weight	10.85 kg
Watertight	5 bar / 50 m
Lighting	8x LED
Luminous flux	95.000 lm
Automatic overheat protection	Step 1 over 80°C = 22,000 lm Step 2 over 90°C = 12,000 lm
Color tempereure	5.700 K
Lighting beam	36°
Operating temperature water	---
Operating temperature air	---
Radiation tolerant	192,500 rad/h (1,925 Gy/h)*
Total dose	4,810,000 rad (48,100 Gy)
Optionals	non-browning glass
*glass becomes brown	

\* unit in mm



# Setup

Possible combinations



## 1 Lighting



VT 800 PL LED

## 2 Cabling



Cable drum with clip ring  
VT 800 PL SKT

\*similar picture



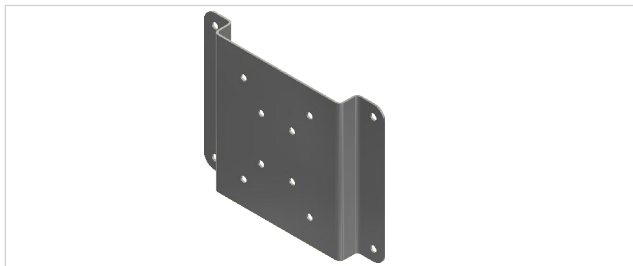
Cable  
VT 800 PL K

## 3 Control Unit



Control unit  
VT 800 PL CU

## Accessories



Mounting panel (optional)

Customized brackets can be mounted on the back of the lighting system



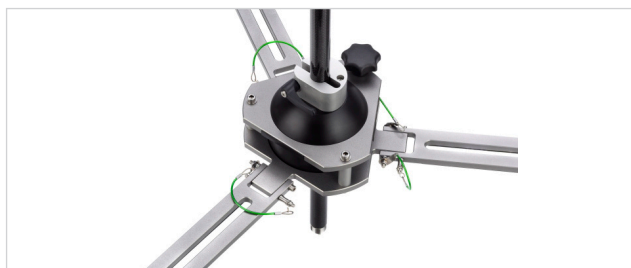
Mounting bracket (optional)

Mounting bracket with socket for the VT 29 GR carbon poles



VT 29 carbon poles - 29 or 42 mm diameter

Connectable carbon poles for deployment of cameras and tools  
- standard lengths are 1 and 2 m



Manhole holder

Versatile positioner for 29 or 42 mm carbon poles



VT GH Vario tool holder

Variable railing bracket with stainless steel adapter for connecting the camera to 29 or 42 mm diameter carbon poles

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