

# VT 400 PL LED *lighting system* brochure



## VT 400 PL LED nuclear lighting system

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

### Applications

- ▶ Powerful, mobile lighting unit for illumination of all underwater and in-air applications where optimal visibility is needed
- ▶ Perfectly suited for all manners of long illumination tasks in reactor vessels or fuel pools
- ▶ Due to its internal temperature control features, the VT 400 PL can also be used in-air with automatically controlled illumination intensity
- ▶ The FME approved design guarantees no loose parts in pool water

### Features

- ▶ High illumination with an output of 47,500 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

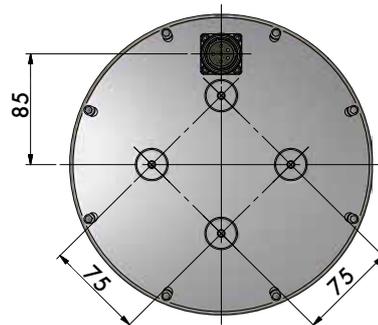
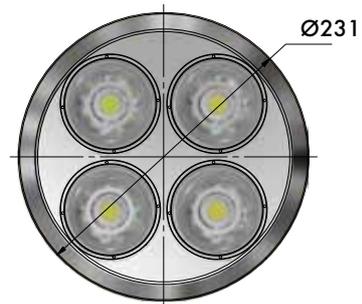
## Technical specifications - VT 400 PL LED lighting system

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

Material	stainless steel
Dimension (ø x L)	231x96 mm
Weight	6.4 kg
Watertight	5 bar / 50 m
Lighting	4x LED
Luminous flux	47,500 lm
Automatic overheat protection	Step 1 over 80°C = 11,000 lm Step 2 over 90°C = 6,000 lm
Color tempaure	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

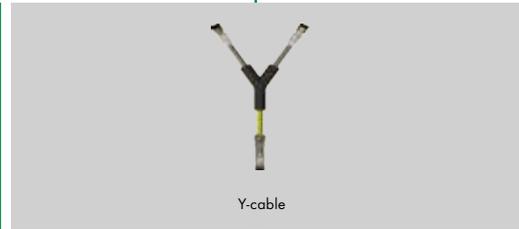
## Possible combinations



### 1 Lighting



### 2 Cabling



### 3 Cabling



### 4 Control unit



## Accessories



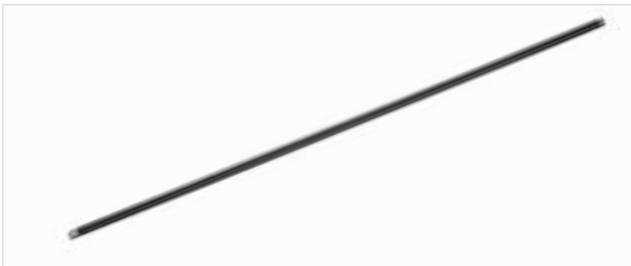
### Mounting panel

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



### Mounting bracket

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



### Adapter cable

Y-piece for connecting 2x VT 400 PL LED b to the VT 800 PL CU control unit



### 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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