

## Camera LVT 140 CPT

### High Definition Pan/Tilt Camera

#### Challenge

Performance of visual inspections or surveillance are required by plant pre-service and in-service inspection or maintenance programs. Limited space with low light situation up to complete darkness as well as high dose demand for dedicated camera technologies.

#### Solution

Framatome developed a waterproof and radiation resistant full HD zoom camera with integrated pan/tilt and high definition resolution. Excellent illumination of the inspection area allows precise detection and characterization of indications. Additional features are a line and distance laser for measurements or a depth sensor for accurate positioning. The camera is easy to handle and can be used “stand alone”, with manipulators or equipped to our submarine system SUSI-Gen3.

The modular concept also contains our high-rad camera LVT 140 TPT.

#### Technical information

Dimensions	280 mm (11.0”) length 160 mm (6.3”) width 120 mm (4.7”) height
Weight	2.6 kg (5.7 lbs) in air 0.6 kg (1,3 lbs) in water
Housing material	anodized aluminum, stainless steel
Waterproof up to	5 bar (72.5 psi)
Maximum operating temp.	60°C (140°F)
Radiation tolerance	250 Gy (250,000 rad) total dose 15 Gy/h (15,000 rad/h) dose rate
Pan movement angle	360° (endless)
Tilt movement angle	280°
Resolution	1920 x 1080 (Full HD)
Optical zoom	30x
Digital zoom	12x
Horizontal viewing angle	63.7° (wide end) to 2.3° (tele end)
Minimum distance to object	10 mm (0.39”) wide end 1200 mm (47.2”) tele end
Focus	auto, manual
Integrated image stabilisation	yes
Aperture control	16 steps
Lights	4 LED lights, 7200 lm total
CCT (correlated color temp.)	2700 K
CRI (color rendering index)	98
Specialized diffusion disk	4x, eliminate LED light spot in near distance situations



#### Customer benefits

- High definition waterproof camera which can be used in environment up to 15 Gy/h dose rate for visual inspections or surveillance
- Excellent illumination level and accurate color representation without typical LED light spots in near distance situations
- Simple connection to poles or supports
- Weight under water only 0,6 kg for easy handling

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