

Camera LVT 140 TPT

High Radiation 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 very high dose demand for dedicated camera technologies.

Solution

Framatome developed a waterproof and highly radiation resistant zoom camera with integrated pan/tilt. Excellent illumination of the inspection area allows precise detection and characterization of indications. 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 full HD camera LVT 140 CPT.

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	200 kGy (200 Mrad) total dose 10 kGy/h (10 Mrad/h) dose rate
Pan movement angle	360° (endless)
Tilt movement angle	280°
Resolution	>600 Lines
Optical zoom	3x
Field Angles	70° at the shortest focal distance 25° at the longest focal distance
Object Distance	50 mm to infinity
Focus	manual
Aperture control	manual
Lights	4 LED lights, 7200 lm total
CCT (correlated color temp.)	2700 K
Specialized diffusion disk	4x, eliminate LED light spot in near distance situations



Customer benefits

- Waterproof camera which can be used in high radiation areas with up to 10 kGy/h dose rate for visual inspections or surveillance
- Excellent illumination level 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

Contact: outage@framatome.com
www.framatome.com

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