

Camera LVT 70 PT

Small 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. Minimal space with low light situation up to complete darkness, as well as high dose demand for dedicated camera technologies.

Solution

Framatome has developed several dedicated camera systems covering a wide range of applications. The LVT 70 PT is a small, 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. The camera is easy to handle and can be used "stand alone", with manipulators or equipped to our submarine system Mini-SUSI.

Technical information

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|--------------------------------|---|
| Dimensions | 148 mm (6.0") length Ø70 mm (2.8") diameter |
| Weight | 0.6 kg (1.3 lbs) in air |
| 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 | 320° |
| Resolution | 1920 x 1080 (Full HD) |
| Optical zoom | 10x |
| Digital zoom | 16x |
| Horizontal viewing angle | 59.2° (wide end) to 6.7° (tele end) |
| Minimum distance to object | 10 mm (0.39") wide end |
| Focus | auto, manual |
| Integrated image stabilization | yes |
| Aperture control | 16 steps |
| Lights | 12 LED lights, 2328 lm total |
| CCT (correlated color temp.) | 4000 K |
| CRI (color rendering index) | 97 |



Customer benefits

- Small high-definition waterproof camera which can be used in areas with high dose rates 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
- Very low weight for easy under water handling

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