



Mentor Visual UV VideoProbe

Flourescent Penetrant Testing with UV Light

The Mentor Visual iQ Video Borescope, combined with a UV light source, integral quartz light fibers and correct UV optics and filters, presents the optimal solution for flourescent penetrant inspections. This solution delivers maximum UV light levels, with low reflection, and the ability to access small remote areas of equipment.

Functional Principle of the Flourescent Penetrant Test

The surface is first cleaned, then wetted with a flourescent penetrant. The penetrant is drawn into small surface defects by capillary action. After a rinse step, the penetrant remains only in the defect, which can be seen and measured using the UV light.

Scope of Application

The compact size of the integrated probe and UV light makes new applications possible. Difficult to access components such as turbine blades or weld seams can be examined insitu. In automotive manufacturing, some manufacturers add UV flourescent substance to auto body sealing wax to inspect and verify the coating process. The Mentor Visual iQ system with UV is available from 4.0 mm to 8.4 mm diameter probes, so inspections are possible in equipment with access of only 4.0mm!

UV Light Source

In order for UV-versions of the MVIQ system to meet ASTM Specification E1417/E1417M – 13, it is recommended that the UV light source used to supply UV-light energy to the MVIQ system be GEIT P/N ELS-50LEDUV. This is a White-Light / UV-Light switchable light source that when used with the Mentor iQ UV probes allows conformance with ASTM E1417/E1417M – 13 UV and white light specifications. See product specification data sheet for the ELS-50LEDUV for full technical specifications



Quartz Fiber Interchangeable Probe



LED UV/White Light Source
PN: ELS-50LEDUV

Model Number	Diameter	Length	Illumination Fibers	Optical Tips
MVIQAP4020-8947	4.0 mm (0.15")	2.0 m (6.6 ft.)	Quartz	Standard
MVIQAP4030-8890	4.0 mm (0.15")	3.0 m (9.8 ft.)	Quartz	Standard
MVIQAP4035-9021	4.0 mm (0.15")	3.5 m (11.5 ft.)	Quartz	Standard
MVIQAP6120-8948	6.1 mm (0.24")	2.0 m (6.6 ft.)	Quartz	Custom
MVIQAP6130-8889	6.1 mm (0.24")	3.0 m (9.8 ft.)	Quartz	Custom
MVIQAP6160-9101	6.1 mm (0.24")	6.0 m (19.7 ft.)	Quartz	Custom
MVIQAP61100-8960	6.1 mm (0.24")	10.0 m (32.8 ft.)	Quartz	Custom
MVIQAP8420-8949	8.4 mm (0.33")	2.0 m (6.6 ft.)	Quartz	Standard
MVIQAP8430-8937	8.4 mm (0.33")	3.0 m (9.8 ft.)	Quartz	Standard
MVIQAP8445-8956	8.4 mm (0.33")	4.5 m (14.8 ft.)	Quartz	Standard
MVIQAP84100-8982	8.4 mm (0.33")	10.0 m (32.8 ft.)	Quartz	Standard

Optical Tips	Color	FOV (deg)	DOF mm	(in)
Forward View				
XLG3T61UV-8528	White	50	12-200	(.47-7.87)
XLG3T61UV-8553	Orange	80	3-20	(.12-.79)
XLG3T61UV-8581	Black	120	5-120	(.20-4.72)
XLG3T61UV-8593	Yellow	90	20-inf	(.79-inf)
Side View				
XLG3T61UV-8535	Green	50	9-160	(.35-6.30)
XLG3T61UV-8582	Blue	120	4-100	(.16-3.94)
XLG3T61UV-8554	Red	80	1-20	(.04-.79)

technologia badań
wizualnych

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