

# UVIN

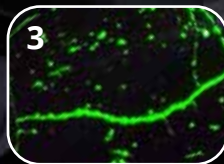
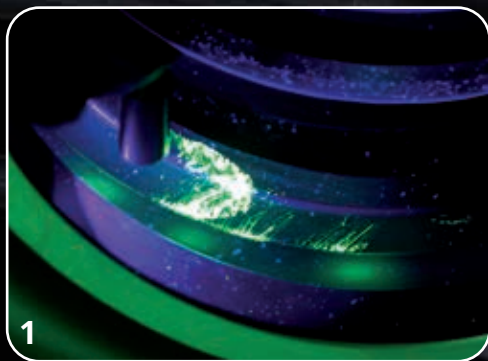


## Genuine 365nm UV and daylight dualscope

NDT: MT / PT supporting videoscope  
 Food processing: Contamination search  
 Automotive: Body-cavity sealing control  
 Infrastructure: Air condition leakages

Employing the latest LED illumination technology, known draw backs from quartz or liquid UV light guides are history with INVIZ Uvin. In UV mode, the probe will emit exactly 365nm light enabling PT and MT inspections in a quality and of areas that weren't possible before... Adding white light on a freely chosen level will allow easy access and full orientation inside the application. Failures are easy to identify. The viewing contrast can't be higher.

The worlds first real UV dual videoscope is available in two diameters and two standard length: 4 meter desktop and 8 or 15 meter reel design. With as little as 13 millimeter the Uvin 13.4 probe will allow to inspect even through the smallest entrance. The quad beam of the Uvin 43 will give a full overview even in huge cavities such as large engine cylinders and the like.



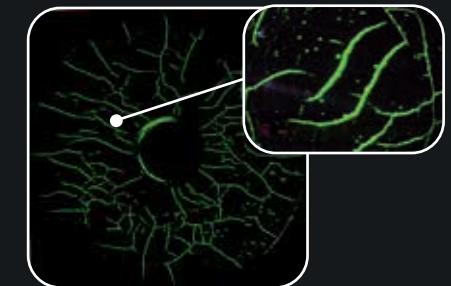
- 1 PT testing turbine component UV
- 2 Flaw search (VT) using INVIZ VUMAN 8/8 RF in close-up mode
- 3 PT flaw test using INVIZ Uvin
- 4-6 Body-cavity wax sealing control

## Uvin 4 m

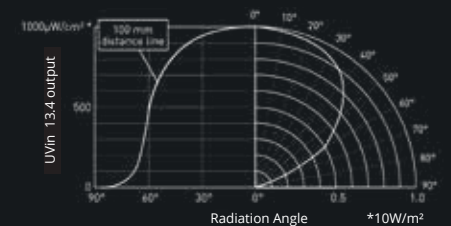
Power requirements	96 - 256 VAC, 50 / 60 Hz / 60 Watt
Dimensions   Weight	(B) 236 mm x (H) 133 mm x (T) 285mm, desktop   4,3 kg
Control	UV-Emission 0 - 100%, Weißlicht 0 - 100%, Weißabgleich justierbar
Video out	S-Video / Composite, PAL
Video resolution	PAL: 440.000 px / (H) 752 x (V) 582
Optic	Standard: 130° FOV bei 0° DOV
Probe	4 m length / 10 mm diameter, camera head 13.4 mm, probe and probe head made of stainless steel / polyurethane



Oil contamination in water showing up white using UVIN



MT calibration body. Reference standard Type 1 (MTU-No.3) according EN 9934-2. Original screenshot UVIN 13.4



Illumination performance X 12. utilizing one single Diode. UVin 40 is utilizing four UV power diodes

## Light parameters

UV 365 nm out	100mm distance scope – target / 0° DOV, +/- 20° : $1000\mu\text{W}/\text{cm}^2$ ( $10\text{W}/\text{m}^2$ ), remaining visible part less 10 lx. Scope of illumination > FOV
UV LED lifetime	> 10.000 hrs
Daylight out	30 lumen, 2 LED, Scope of illumination > FOV
Daylight LED lifetime	> 10.000 hrs

## Recommended consumables

MT	Fluorescent magnetic materials, grain size 2-14 $\mu\text{m}$ , fluorescence coefficient min. 2cd/W, ideal mixing ratio must be evaluated before usage
PT	Typ I (fluorescenting) penetrant according AMS – 2644, Level 3 and 4 / (method A)
Other UV applications	All materials emitting visible light due to absorption of 365nm UV energy

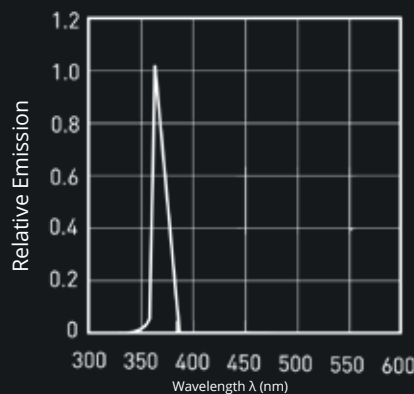
## Operating environment / storage

Camera operation range	-15°C bis +65°C (+5°F bis +150°F)
CCU operation range	-20°C bis +45°C (-4°F bis +115°F)
Watertightness	1.5 bar / 15 meter water

## Custom made systems



UVin 43



UV emission spectrum



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