



ITi UV SCOPE SERIES

ITi UV 6mm Rigid Borescope System

The ITi UV Scope Series tackles critical ultraviolet inspection applications, ideal for fluorescent magnetic particle and dye penetrant indications.

Digital, portable and easy to set up,
ITi UV Scopes

- Feature a compact control box for easy toggling between UV and white light.
- Integrate a built-in light source, eliminating a heavy, external UV lightbox and yielding lower operating cost than arc lamp sources.
- Plug into your laptop—no dedicated, proprietary computer to update and maintain.
- Include turnkey software to display data for immediate evaluation or to capture and save high resolution images and video.
- Provide optional measurement software and/or computer if needed.

HD USB camera included



Built-in LED light sources

Optional computer and measurement software



APPLICATIONS: Manufacturing quality control, machine castings, aircraft engines, auto engines, small caliber gun bores and more.

Probe **MEASURES** 6.6mm (.258") in diameter and is available in lengths up to 38cm (15").

Intense UV and LED **LIGHT SOURCES** built into the end of the scope deliver true HD images and video.

Camera features enhanced **FLUORESCING DYE** response to view smaller defects.



ITi

Instrument Technology, Inc.

ITI UV 6mm Rigid Borescope System

NOTE: a computer meeting minimum specifications is required; ITI offers approved computers if needed.



Built-in LED light sources meet ASTM Standards



HD USB camera included

MECHANICAL

Insertion Diameter	Ø6.6mm (Ø.258")
Insertion Length	18cm - 38cm (7" - 15")
Chemical Compatibility	MagnaGlo 14AM
Weight, VS	0.1kg (0.2lb)
Weight, Kit	52.8kg (6.2lbs)
Size, Kit Case	72cm x 12cm x 25cm (28.5" x 4.8" x 9.8")

IMAGING

View Direction	90° side view
Field of View	40°
Focus Range	0 to Infinity
Resolving Power	22 arcmins/cycle (UV) 22 arcmins/cycle (WL)
Camera, Color	1/3" CCD, 1280 x 960, 1.2MP AGC, AWB

ILLUMINATION

Ultra-violet (365nm)	10,000µW/cm2 at 25mm (1") • ASTM E1417/E1444 up to 25mm (1") • GE P3TF47 up to 25mm (1") - Greater than 1200µW/cm2 - Less than 2 fc Visible Light
Visible (white light)	100 lm/ft2 at 25mm (1")

COMPUTER

Minimum Requirements	CPU Intel i7 Core RAM 16GB OS Windows 7, 8, 10 USB 2.0
Software, Included	Viewing and Recording
Software, Option	2D measurement

POWER

Volts/Current/Power	12VDC/200mA/2.5W
AC/DC Power Adapter	90-264VAC, 47-63Hz 12VDC, .50A, 6W

ENVIRONMENT

Operation Temperature	0°C to 45°C (32°F to 114°F)
Storage Temperature	-18°C to 65°C (0°F to 150°F)
Ingress Protection	IP64

KIT INCLUDES

- UV Rigid Borescope
- Camera Mount
- AC/DC Power Adapter
- Transit Case with Foam
- Power/Illumination Controls
- Power/Video Cables
- Viewing and Capture Software
- Manual

ENGINEERING SPECIFICATIONS