



# Optical Inspection Tools

Quality Control inspections in the surface treatment and the protective coatings industry are often performed with accurate and sophisticated measuring instruments. However, in many cases, a profound visual inspection carried out by an experienced inspector is crucial.

Brought to you by TQC Sheen, our specialist testing brand, we can help with these types of inspections through our comprehensive range of inspection tools and instruments.

## Inspection Mirrors

Ideal for visual inspection of hard-to-reach spots. Spots that are difficult to inspect are even more difficult to blast or coat.

With a simple inspection mirror, a visual inspection from an awkward or restricted space, such as behind stiffeners, under or on top of i-beams, becomes easy to perform.



	<b>LD3004</b>	<b>LD3025</b>
<b>Art.no.</b>	Compact telescopic Mirror	Robust telescopic Mirror
<b>Diameter Mirror:</b>	Ø 31 mm	Ø 51 mm
<b>Length in/out:</b>	In 130 mm Out 455 mm	In 254 mm Out 375 mm
<b>Materials:</b>	Glass/metal	Glass/metal
<b>Weight:</b>	40 g	100 g

## Special Lighting

Visual inspections demand proper lighting. Dependent on the circumstances the need for light can vary from extremely bright or just moderate direct light, floodlight, white light or UV etc.

### General Inspections:

Standard LED or halogen illumination

### Surface cleanliness or pinhole detection:

UV-LED illumination

### Color testing:

Artificial daylight



LD7220



DI0035



DI0090

### DI0035 – LED pocket flashlight

**Light source:** Cree Q4 LED

**Light color:** White

**Dimensions:** 118 x 26 mm

**Weight:** 73 g

**Power:** 3x AAA battery

**Accessories:** Pouch, Wrist strap

### DI0090 – Inspector Flashlight

**Light source:** 3x LED

**Light color:** Red, UV and white

**Dimensions:** Ø37 x 156 mm

**Weight:** 149 g excluding batteries

**Power:** Rechargeable Li-ion battery

**Accessories:** Pouch, Wrist strap, USB cable and mains and car adapter

### LD7290 – TQC UV flashlight

**Light source:** UV LED

**Light color:** Ultraviolet 410 nm

**Dimensions:** 126 x 32 mm

**Weight:** 76 g

**Power:** 3 x AAA battery

**Accessories:** Pouch, wrist strap

### LD7220 – UV inspection spotlight

**Light source:** UV LED

**Light color:** Ultraviolet 365 nm

**Dimensions:** 160 x 45 x 25 mm

**Weight:** 190 g

**Power:** One-cell, 3.7V 2600 mah rechargeable Li-ion

**Accessories:** UV protective glasses, Li-ion battery, battery charger, carrying case

## Surface Microscopes

Surface cleanliness, marks, pinholes, fish-eyes, delaminating, cracks and many other coating defects require further investigation to find their cause. A portable microscope allows the inspector to examine coating defects right on the spot. Some microscopes are equipped with a reticle so direct measurements can be made.

Art. No	LD6169 Surface Microscope	LD6170 Surface Microscope	LD6172 Surface Microscope	LD6174 Surface Microscope
<b>Magnification:</b>	10x	20x	60x	100x
<b>Field of view:</b>	20 mm	10 mm	2 mm	0.6 mm
<b>Measuring scale/reticle:</b>	Yes 0,1 mm	Yes 0,1 mm	Yes 0,02 mm	Yes 0,01 mm
<b>Illuminated:</b>	Yes	Yes	Yes	Yes
<b>Focusable:</b>	Yes	Yes	Yes	Yes
<b>Optical material:</b>	Glass	Glass	Glass	Glass
<b>Body material:</b>	Plastic	Aluminum	Aluminum	Aluminum
<b>Dimensions:</b>	45 x 45 x 45 mm	175 x 90 x 55 mm	175 x 90 x 55 mm	175 x 90 x 55 mm
<b>Weight:</b>	100 g	370 g	370 g	370 g
<b>Accessories:</b>	Soft cover	Hardcase	Hardcase	Hardcase



LD6169



LD6205



LD6170  
LD6172  
LD6174

### Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

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