

# Connector Inspector CI-1100

## Video Microscope for Fiber Optic Connector Inspection

Appendix: Using Lightel CI-1100 probe **with/without** an IR filter

### Overview

The eye-safe CI-1100 Connector Inspector is a portable video microscope for inspecting fiber optic connector endface contamination. Its hand-held probe design enables inspection of both patchcords and difficult to reach in-adapter connectors.

The CI-1100-A2 package includes a fold-up LCD monitor, 4 inspection tips, a charger/adaptor, and a carrying case. An optional USB adapter is available for display and capture of images on your PC.

A large variety of adapter tips are available, allowing you to view almost any type of connector in any location.



- Ergonomic design
- Fast, easy focus
- One hand operation
- Large 3.5" LCD display
- Inspect jumper cables and in bulkheads
- Change inspection tips in seconds
- PC and APC tips for single fiber and ribbon connectors

**LIGHTEL**  
TECHNOLOGIES INC.

überreicht durch:

**Opternus**

Opternus GmbH Optische Spleiss- & Messtechnik

Bahnhofstr. 5  
D-22941 Bargteheide

Tel. +49(0)4532-20 44-0  
Fax +49(0)4532-20 44-25

Büro Süd:

Wäldenbronner Str. 2  
D-73732 Esslingen

Tel. +49(0)711-3 10 59 99-0  
Fax +49(0)711-3 10 59 99-99

E-Mail: [info@opternus.de](mailto:info@opternus.de) - [www.opternus.de](http://www.opternus.de) - [www.opternus-shop.de](http://www.opternus-shop.de)

Opternus GmbH  
August 2010

# Connector Inspector *CI-1100*

ISO 9001:2000

## Specifications

Probe	
Magnification	400X (w/ 9" monitor) (Lower magnification optional)
Field of View	~ 425µm x 320µm (standard) ~ 640µm x 480µm (lower magnification option)
Resolution	0.5µm detectable
Focus	Manual adjustment, 2mm max travel
Light source	Blue LED
Dimensions	35mm diameter x 175mm length (without cap)
Weight	200g
Monitor	
Display	3.5" TFT-LCD, 960 x 240 pixels
	Adjustable brightness and contrast
Dimensions	105mm x 90mm x 45mm (folded)
Weight	255g (without battery)
Power Supply	9.6V battery pack or AC power supply
Battery life	4 hours
Charger/AC adapter	US, EU, UK and Australian versions available
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 70°C

## Key Options

USB2.0 adapter	Use the CI-1100 probe to view, capture and store images on a Windows® PC
ConnectorView Plus software	Pass/Fail analytical and reporting software for a Windows® PC
"Hot" fiber filter	Inspect live fiber connectors. Useable to at least 20dBm. (Higher power would not damage the unit, but may not provide useful images.)
Tip adapter	Use any CI-1000 tip with the CI-1100

## CI-1100-A2 Package

1 Probe (CI-1100)
1 LCD monitor
1 Rechargeable battery pack (inside LCD monitor)
1 AC power adapter/battery charger
1 Universal 2.5mm tip for PC type male connectors
1 Universal 1.25mm tip for PC type male connectors
1 Tip for SC and FC PC type female connectors
1 Tip for LC PC type female connectors
1 Tip box
1 Carrying case



**LIGHTTEL**  
TECHNOLOGIES INC.

überreicht durch:

**Opternus**

Opternus GmbH Optische Spleiss- & Messtechnik

Bahnhofstr. 5  
D-22941 Bargteheide

Tel. +49(0)4532-20 44-0  
Fax +49(0)4532-20 44-25

Büro Süd:

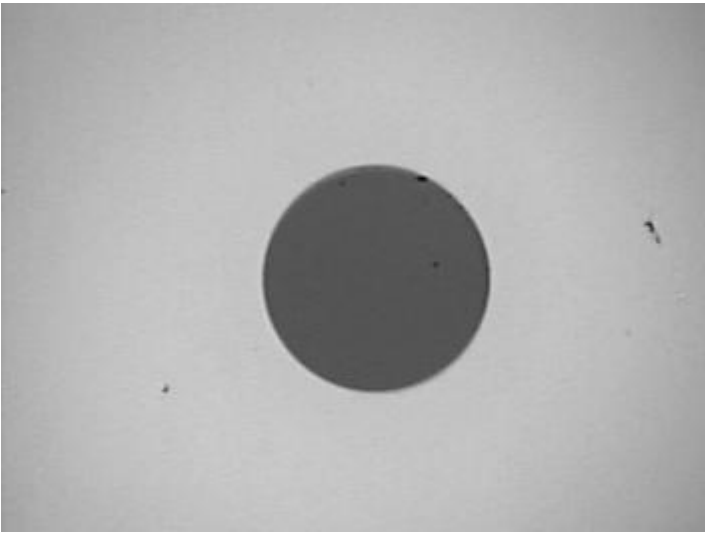
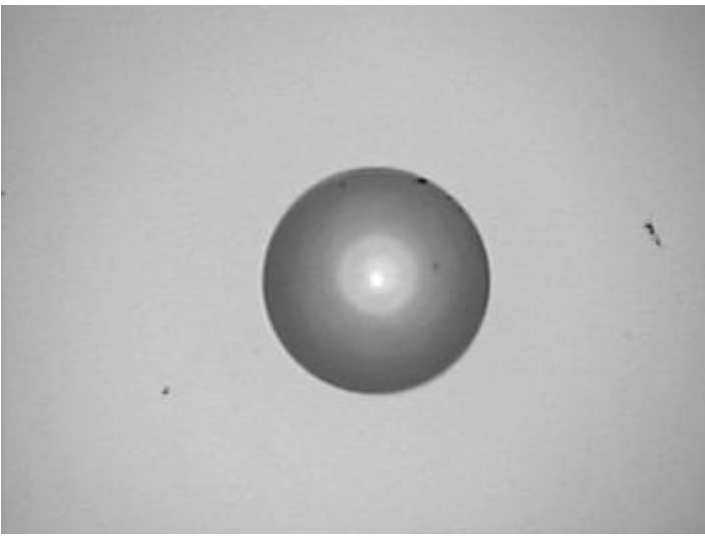
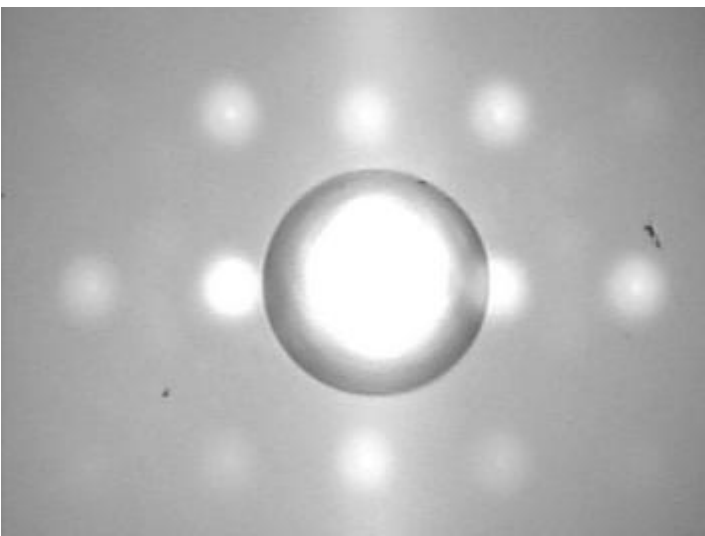
Wäldenbronner Str. 2  
D-73732 Esslingen

Tel. +49(0)711-3 10 59 99-0  
Fax +49(0)711-3 10 59 99-99

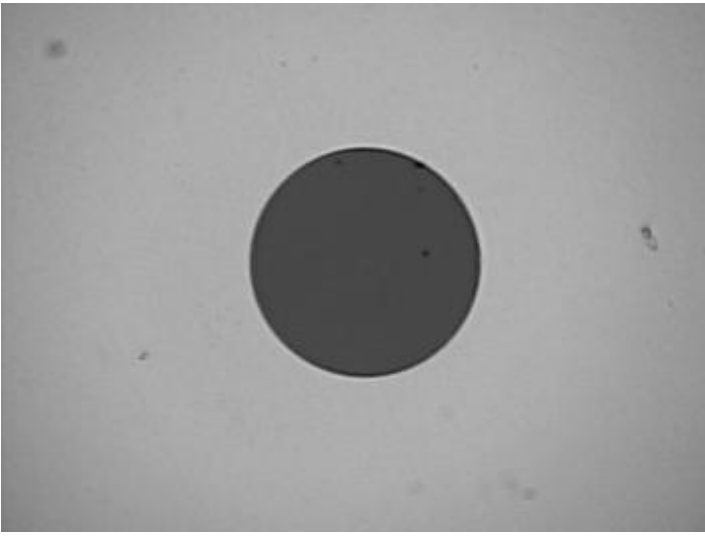
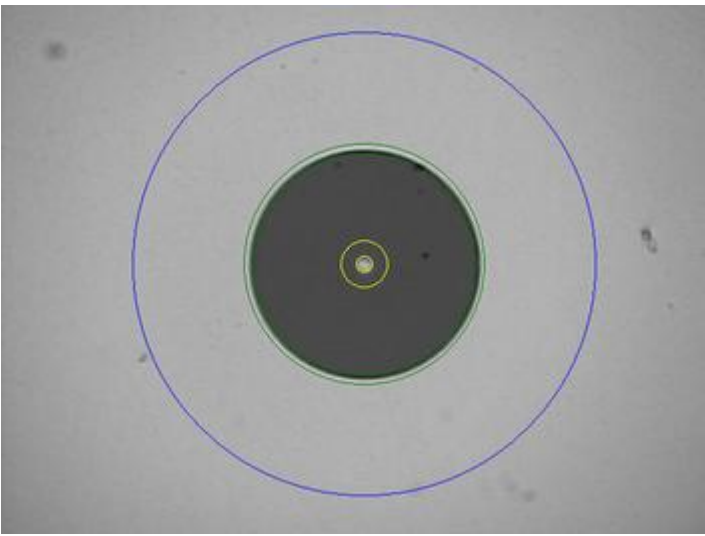
E-Mail: [info@opternus.de](mailto:info@opternus.de) - [www.opternus.de](http://www.opternus.de) - [www.opternus-shop.de](http://www.opternus-shop.de)

Opternus GmbH  
August 2010

Using Lightel CI-1100 probe #1 (**Without** IR filter)

<p>No Signal light</p>	
<p>With 1550nm Signal  P=18dBm</p>	
<p>With 1550nm Signal  P=24dBm</p>	

Using Lightel CI-1100 probe #2 (With an IR filter)

<p>No Signal light</p>	
<p>With 1550nm Signal  P=18dBm</p>	
<p>With 1550nm Signal  P=24dBm</p>	