



Cleave-Chek Interferometer System



The Norland Cleave-Chek Interferometer System provides detailed information about the surface condition of a cleaved optical fiber. This information is important when the quality of your cleave is vital to the performance of your system.

- Low Cost
- Easy to Set Up and Operate
- Compact Size: Interferometer measures only 7 x 4.5 x 5 inches
- Extremely Accurate: Results are reproducible to within 1 fringe
- Self-Calibration: No adjustments of lenses or mirrors are required
- Vibration Insensitive

SPECIFICATIONS

Interferometer	
Materials of Construction	Alloy metal

Dimensions	7 x 4.5 x 5 inches
Objective	20 power
Illumination	Red LED
Power	7.5V AC adaptor and self-contained rechargeable battery
Weight	2 pounds
CCTV Camera	
Dimensions	2.2 x 2.1 x 3.4 inches
Adapter Tube	3 inch C-mount
Weight	1 pound
Power	12 V DC
Video Monitor	
Dimensions	9.75 x 9.25 x 9.5 inches with 9 inch screen
Weight	14 pounds

The Norland Cleave-Chek Interferometer System is designed for measuring the exact end angle of a cleaved optical fiber. This system uses a fiber interferometer, with a solid-state CCTV camera and a video monitor, to quickly and easily observe the condition of the fiber face. Applications for this unit include inspecting the fiber ends before splicing, checking the cleaving tool's performance and providing feedback for optimizing cleaving techniques.

The Cleave-Chek Interferometer System works by forming an interference pattern between the fiber face and an optical reference flat. A red LED illuminates the fiber end to give a sharp fringe pattern which is projected onto the video monitor for easy viewing. By counting the number of fringes, the exact end angle can be calculated. A 1 degree end angle is equal to 7 fringes across a 125mm fiber.

The shape and distribution of the fringes also provide valuable data on the topography of the fiber face and hence, valuable information about the condition of the cleaving tool. As well as determining the exact end angle of the fiber face, this system shows the depth of the nick and the direction of the pull during the break. By providing a complete evaluation of the fiber face, the end user is able to set highly accurate quality control standards to assure optimum performance in the system.

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