

## CLEAVEMETER 3D+TM



## **CLEAVEMETER** 3D+™

Extremely accurate Optical fiber end-face interferometer with three-dimensional surface topography reconstruction

- Class leading accuracy 0.005°
- Full resolution surface topography reconstruction
- 2D view of surface topography and pointwise slope
- · 3D view of surface topography with camera and lighting control
- Extremely accurate, operator independent measurements of cleave angle and surface flatness over arbitrary diameters
- Optional pass/fail indication of cleave angle for fast operation in production environments



The CLEAVEMETER 3D+™ is a non-contact interferometer designed for high accuracy inspecting of end-faces for cleaved or polished optical fibers with cladding diameters of 125µm to 1200µm. The CLEAVEMETER 3D+™ gives immediate and precise information on important end face properties such as flatness, perpendicularity, hackles and dust. Extremely accurate measurements of both cleave angle and surface flatness over arbitrary diameters can be performed on the reconstructed end-face surface. These measurements are carried out automatically, with full operator independence.

This makes the system well suited not only for detailed cleave quality analysis in laboratory environments, but also for close production monitoring. In addition to cleave angles, the system can also be used to measure a number of other properties such as plane angles, fiber diameters and the distance between points.

The software allows the user to view the pointwise slope across the whole fiber end-face, a very useful tool for spotting small scale irregularities and crack propagation behavior. The CLEAVEMETER 3D+™ comes in a small, ergonomic benchtop design and connects to the USB port of a PC running the host application. A Shutter option is also available for this system. This option allows the user to temporarily eliminate the interference patterns for a more detailed view of the end face.

TECHNICAL DATA		TECHNICAL DATA
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Fiber cladding	125-1200µm*
Camera resolution	1280×1024 pixels
Image scale	1.25µm per pixel
Image file format	8-bit JPEG, PNG, TIFF, BMP/24-bit BMP
PC connection	USB 2.0 port
Power supply	Through USB port
Dimensions	97 mm (W) x 179 mm (D) x 142 mm (H)
Weight	1.6 kg

NYFORS part number: 30100032

CLEAVE ANGLE ACCURACY

Absolute accuracy 0.005° degrees standard deviation

\*CLEAVEMETER 3D+ unit calibrated by NYFORS for specific fiber cladding

For more information about system accuracy, please contact us at: info@nyfors.com.

## WWW.NYFORS.COM

ACCESSORIES FOR CLEAVEMETER					3D	3D+	
Adaptor plate	Туре	Cladding diameter	Article number	Article description	CM 2	C M 2	
Pa	FJK	115-210µm	30100001	Adaptor plate, FJK, 115-210µm	•	•	
	FJK	200-529μm	30100002	Adaptor plate, FJK, 200-529µm	•	•	
	FJK	510-800µm	30100003	Adaptor plate, FJK, 510-800µm	•	•	
	FJK	800-1200μm	30100004	Adaptor plate, FJK, 800-1200µm	•	•	
	NYFORS	Customer Specified	30100007	Adaptor plate, NYFORS, Generic	•	•	
	Ferrule	Customer Specified	30100020	Adaptor plate, Ferrule, Generic	•	•	
	FSMA	-	30100024	Adaptor plate, FSMA	•	•	
	SMA	-	30100027	Adaptor plate, SMA	•	•	
	FITEL	115-210µm	30100022	Adaptor plate, FITEL, 115-210µm	•	•	
	FITEL	200-529µm	30100023	Adaptor plate, FITEL, 115-210µm	•	•	

Angle adaptor plate	Angle	Article number	Article description			
	4°	30100021	Angle adaptor plate, 4deg	•	•	
	8°	30100009	Angle adaptor plate, 8deg	•	•	
	15°	30100008	Angle adaptor plate, 15deg	•	•	
	Customer Specified	30100010	Angle adaptor plate, Generic	•	•	

Options	Туре	Article number	Article description			
	Premium license	30100014	Premium SW License	•		
	Shutter Option	30100036	CLEAVEMETER Shutter Option	•	•	•
	Autofocus Option	30100037	CLEAVEMETER Autofocus Option		•	