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Test & Measurement

- > sales
- > rentals
- > calibration
- > repair
- > disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

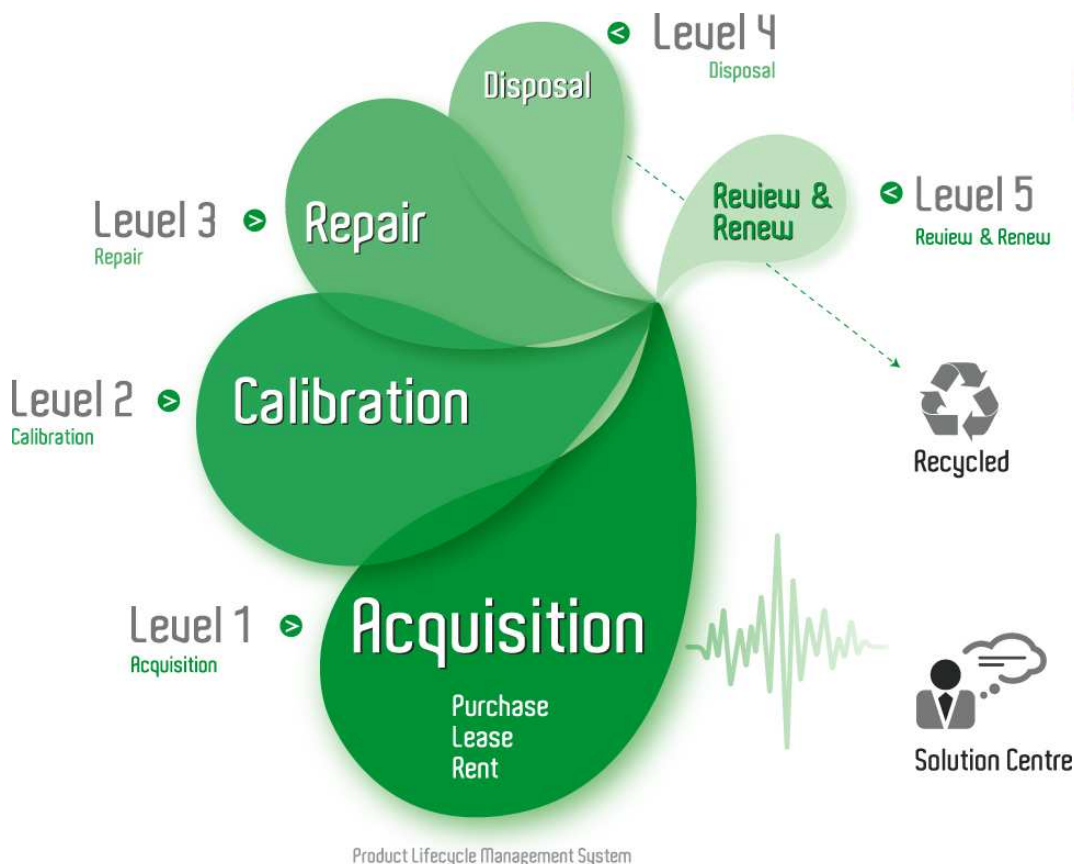
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Product Lifecycle Management System

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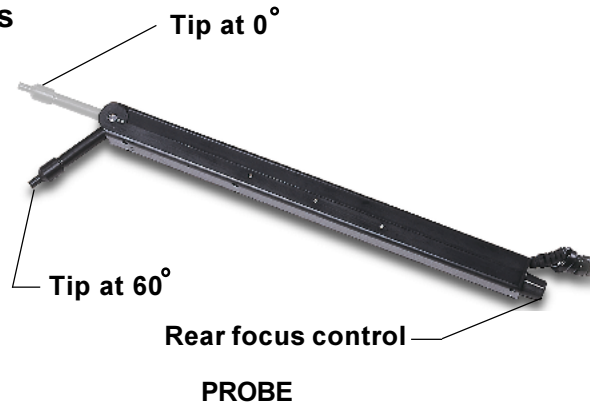


VFS 1

VIDEO FIBER SCOPE



- In-Place Inspection of Fiber Optic Connectors
- Active Matrix Display
- 0° or 60° Probe-Arm Angle
- Portable and Workstation Models Available
- Battery or AC Power
- Internal Charging



INTERFACE UNIT
VFS1-PC and VFS1-PCE



DISPLAY UNIT
VFS1 and VFS1-CE

DESCRIPTION

The VFS 1 is a portable, video microscope designed to inspect fiber optic connectors **through bulkhead adapters**. The VFS 1 can therefore be used to inspect



installed fiber optic connectors in patch panels, distribution frames, network equipment, and test equipment.

The VFS 1 comprises an inspection probe and display unit. The probe includes an internal LED coaxial light source and a miniature CCD video camera. No bulb replacement is required. The front arm of the probe may be used in two positions: straight or 60°. The focus control is located at the rear of the probe. This allows the user to easily focus the probe even while inspecting connectors on equipment back planes or densely packed patch panels. The probe accepts connector specific tips that can be quickly changed when inspecting different connector types.

The display unit provides a high contrast, active matrix LCD display. The size and resolution of this display, and the resolving power of the optics used in the probe, allow detection of pits, scratches, and contamination within the polished end of 125 μm fiber. In addition, a wide field of view allows inspection of the surrounding ferrule to a diameter of at least 250 μm . A video output is provided for an external monitor.

SPECIFICATIONS

Models	VFS1	VFS1-CE	VFS1-PC	VFS1-PCE
Configuration	Probe + Display Unit		Probe + Interface Unit	
CE Marking	No	Yes	No	Yes
Video Output	NTSC	PAL	NTSC	PAL

Image Specifications

Display Size (Display Unit)	5-inch (13 cm) Active LCD	N/A
Magnification Using the Display Unit	140x	N/A
Magnification Using an External Display	Depends on display size Example: > 250x with a 9-inch (23-cm) or larger display	

Power

Battery Type	Rechargeable lead-acid	(4) AA alkaline		
Battery Life	> 1 hour	> 4 hours		
Internal charging	Yes	N/A		
AC Adapter	120VAC 60Hz	100-240 VAC 50-60Hz	120VAC 60Hz	100-240 VAC 50-60 Hz

Size

Probe	1 x 1 x 15 in (2.5 x 2.5 x 38 cm)		
Display / Interface Unit	5 x 8 x 3 in (13 x 20 x 7.6 cm)	4" x 7.5" x 2"	

Weight

Probe	7 oz. (0.2 kg)		
Display / Interface Unit	4 lb (1.8 kg)	1 lb (0.45 kg)	
Shipping	16 lb (7.2 kg)	15 lb (6.7 kg)	

Environmental Specifications

Temperature	0° to +40° C
Storage Temperature	-10° to +60° C
Relative Humidity	0 to 95%, non-condensing

Specifications are subject to change

ORDERING INFORMATION

All VFS1 models include a video probe, carry case, AC adapter, and user's guide. The VFS1 and VFS1-CE also include a Display Unit with internal charging, neck strap, and one rechargeable lead-acid battery. The VFS1-PC and VFS1-PCE also include an Interface Unit and (4) AA alkaline batteries. **Adapter tips are required for all VFS1 models and must be ordered separately.**

Accessories for the VFS1 and VFS1-CE

Ext. battery charger, 120VAC, 60 Hz 4050-30-0102 Rechargeable, lead-acid battery.....3900-02-0002
 Ext. battery charger, 230VAC, 50 Hz 4050-30-0103 Tripod, (floor standing)..... 2900-10-0005

Video Capture PC Card

MRT Micro Video Port Pro (requires a PC with available Type II PC Card slot).....2000-01-0003

Adapter Tips for all VFS1 Models (For a complete list, call or check our website)

1.25 mm (for patch cords) VFS1-01-0114 LC VFS1-01-0113
 2.5 mm (for patch cords) VFS1-01-0112 E-2000 VFS1-01-0115
 FC VFS1-01-0107 MU Backplane (Kit) VFS1-91-0200
 SC VFS1-01-0108 Angled FC VFS1-01-0110
 ST VFS1-01-0109 Angled SC VFS1-01-0111



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