

DTM-010

FIBER OPTIC MICROSCOPE & INSPECTION PROBE



User Manual

DINTEK
LAN CABLING SYSTEMS

Foreword

Thank you for purchasing this DINTEK DTM-010 Fiber Optic Microscope complete with Inspection Probe. Before assembly product and subsequent use of it, please make certain that all of the parts you have ordered are present. Check the packaging carefully as some parts are small and can be overlooked. Also, locate any additional parts and accessories you may have purchased.

Safety Conventions

You should make yourself aware of the relevant safety conventions for your country before using the product described in this manual.

Caution

Caution refers to a potential product hazard. It requires a procedure which, if not correctly followed, may result in component damage. Do not proceed unless you understand and meet the required conditions.

Inspection & Probe Introduction

The DINTEK DTM-010 Fiber Optic Microscope & Inspection Probe is a portable, video microscope used to inspect fiber optic terminations. More specifically, it is used to inspect hard-to-reach connectors that are installed on the 'backside' of patch panels or inside hardware devices. It eliminates the need to access the back-side of patch panels or disassemble hardware devices prior to inspection.



Product Applications

Patch Panel Inspection

Patch panels are designed to allow the front connector to be easily inspected, but the rear of the connector is often difficult to access. Inspecting the connector on the front side of the panel can usually be performed with a simple fiber inspection microscope. However, the back connectors are not as easily inspected with traditional microscopes, thus requiring time-consuming troubleshooting. The inspection probe offers a fast and effective means of installing, troubleshooting or maintaining fiber optic patch panels. This can be solved by using the DINTEK DTM-010 Fiber Inspection Microscope & Probe.

Inspection of Cable Assemblies

When the Inspection Probe is equipped with the appropriate adapter head, patch cords, pigtails, and cable assemblies can then be tested.

Probe Components

Analog Probe Unit

This DINTEK DTM-010 Probe utilizes an analog CCD, which outputs an NTSC or PAL signal. The signal is routed through a 4-pin connector that directs power into the probe, and then the subsequent video signal out from the probe. This unit is suitable for use with the DTM-010 hand held LCD display unit



Bulkhead Assembly

The bulkhead assembly houses the optics which accommodates different adapters, such as FC, SC, ST, LC, E2000, MTRJ and other customized PC or APC adapters.

Focus Control

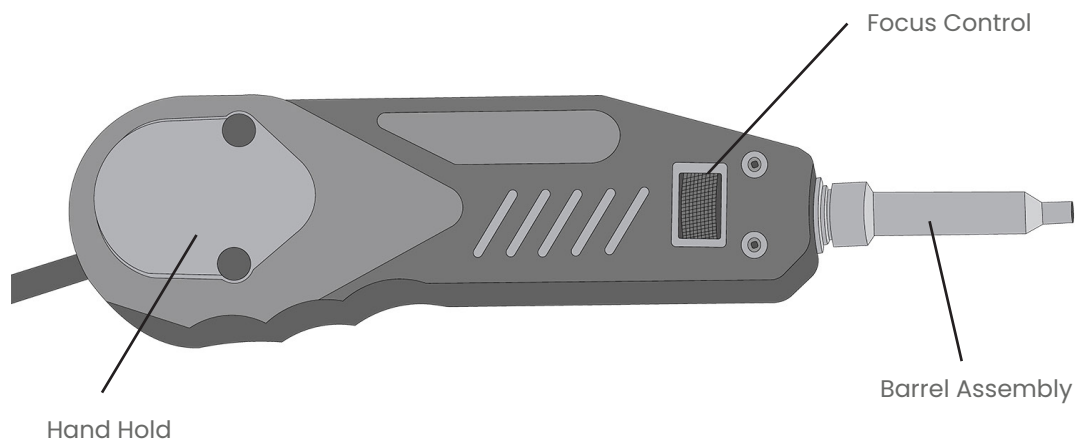
The default setting of magnification is 250x. When the figure shows on monitor, screw the focus control to make it clearest.

Optional Extra Bulkheads

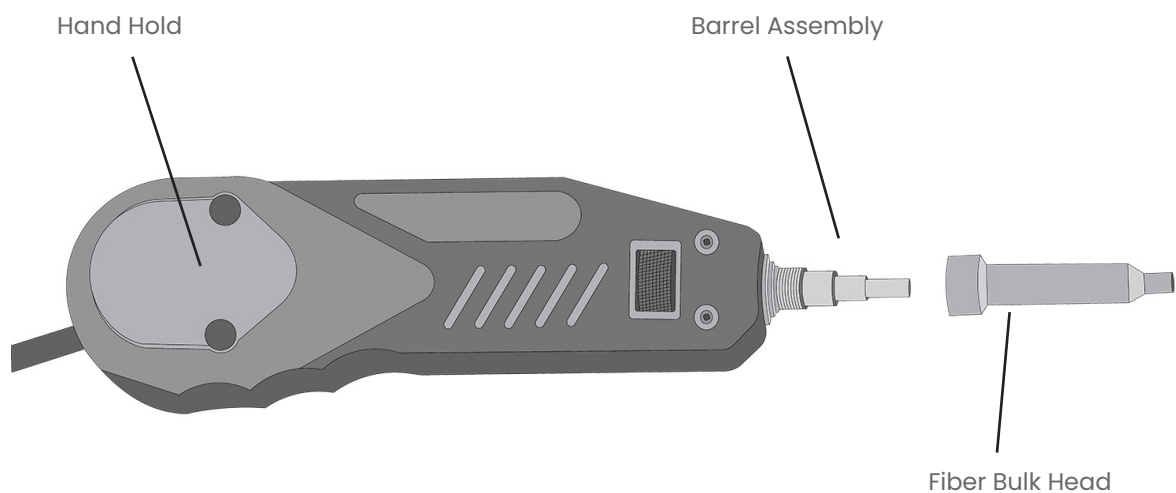


Probe Components

Fiber Inspection Probe



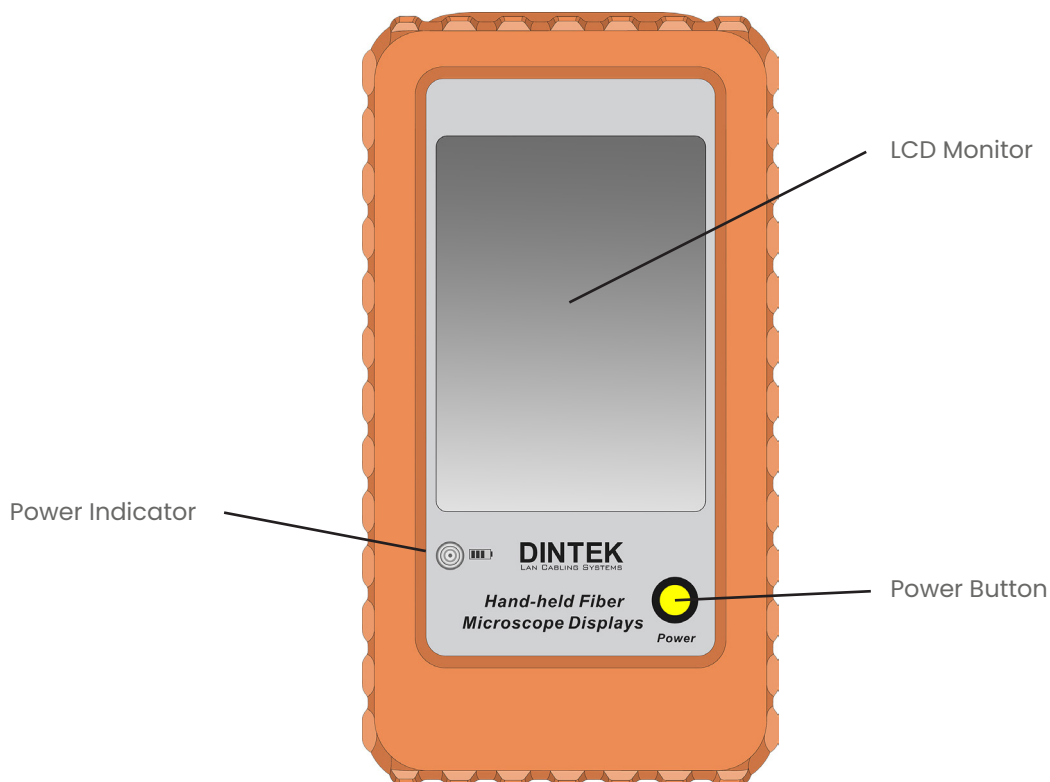
Bulkhead Installation



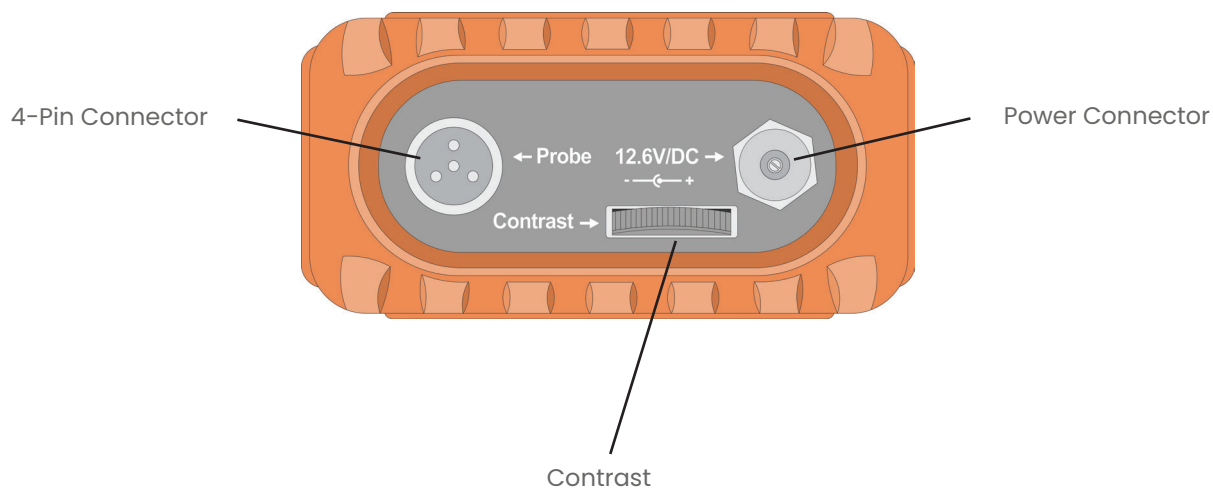
Locate the bulkhead you want to install and look to the threaded end. This screw acts as a “key” and is already mounted with the key channel. Do not try to screw the key channel from the threaded key, which might cause damage to the probe installed.

Display Components

3.5 inch Monitor Display



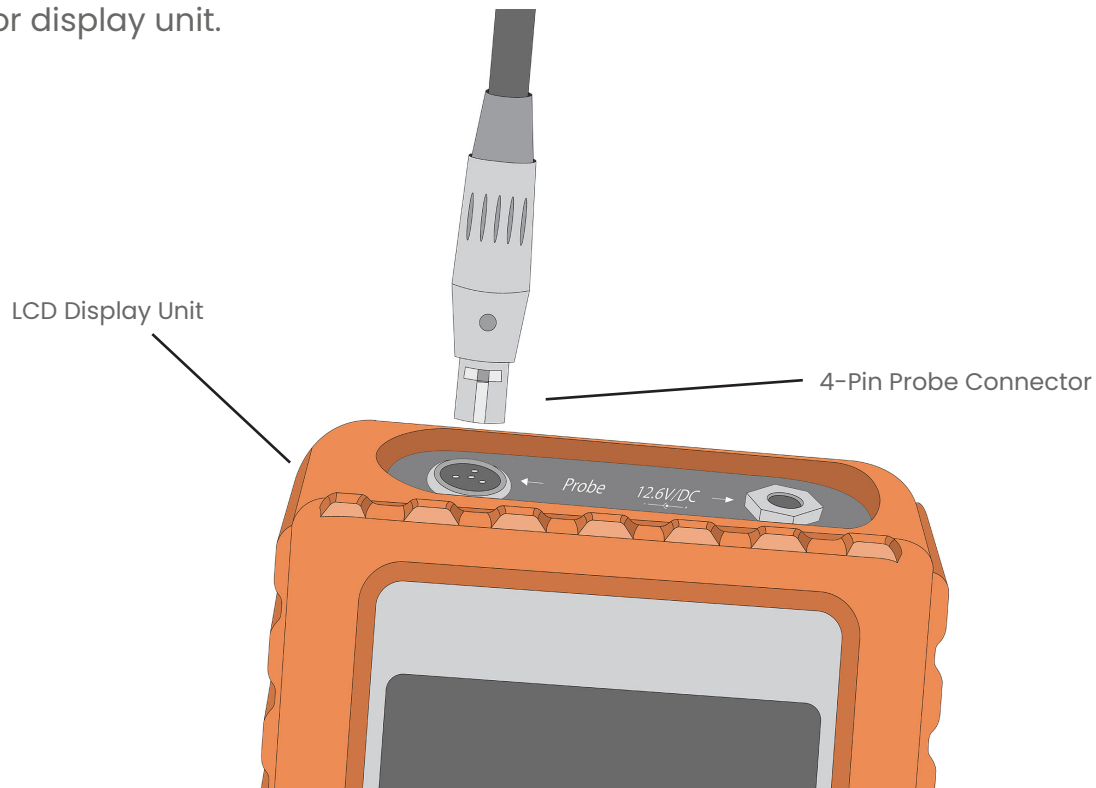
Power and Adjustment Connectors



Unit Operation

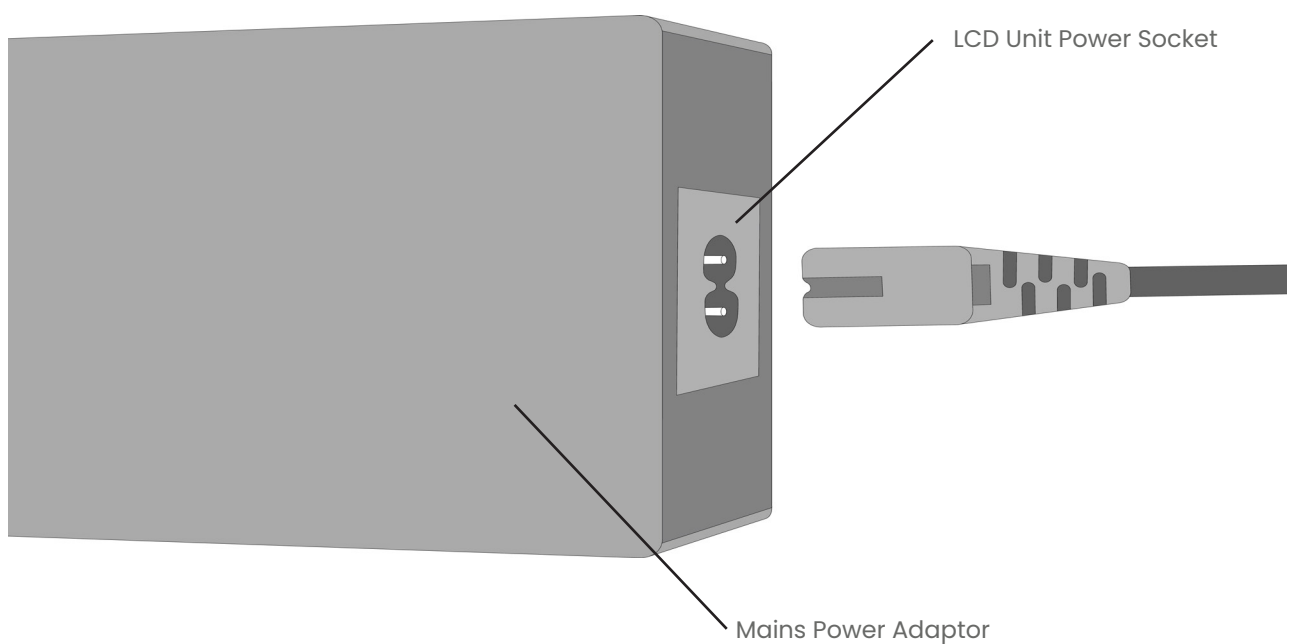
LCD Display Unit

Connect the inspection probe 4-pin connector to the LCD Display port on the main monitor display unit.



LCD Display Unit

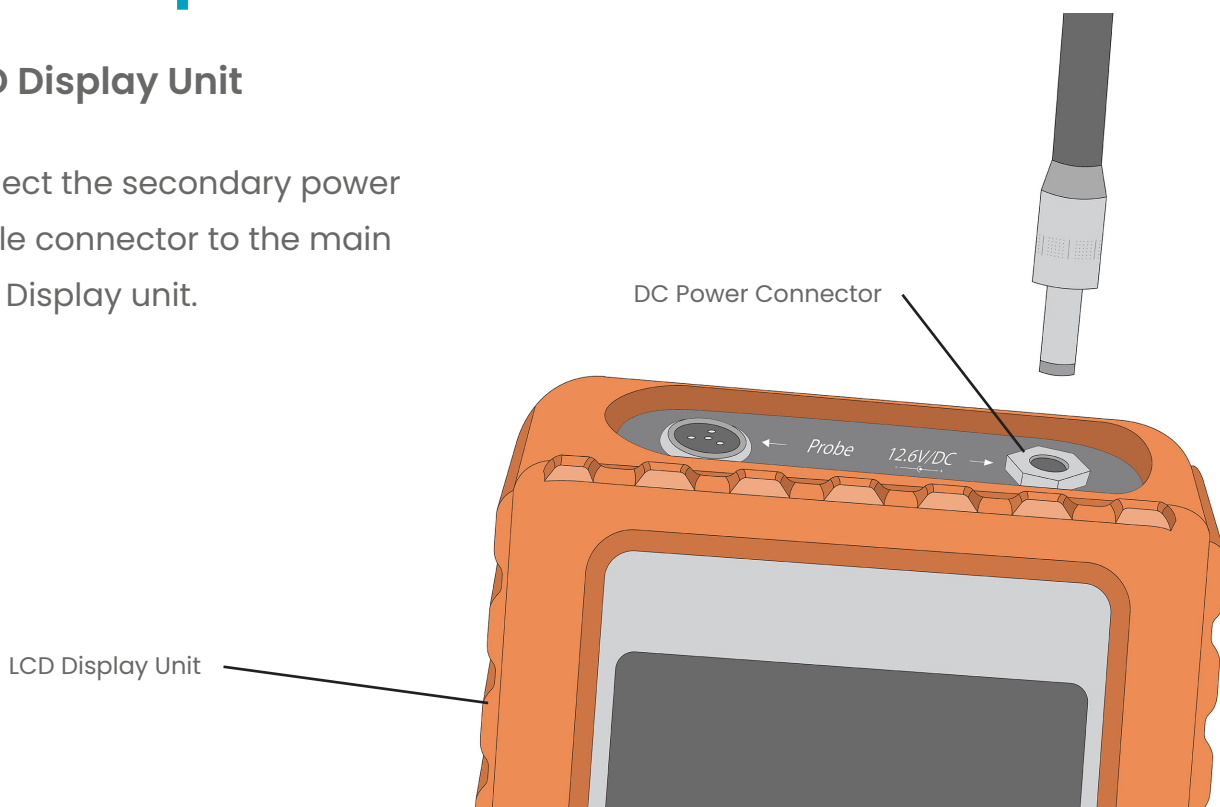
Connect the main power cable connector to the underside of the main LCD Display unit.



Unit Operation

LCD Display Unit

Connect the secondary power cable connector to the main LCD Display unit.

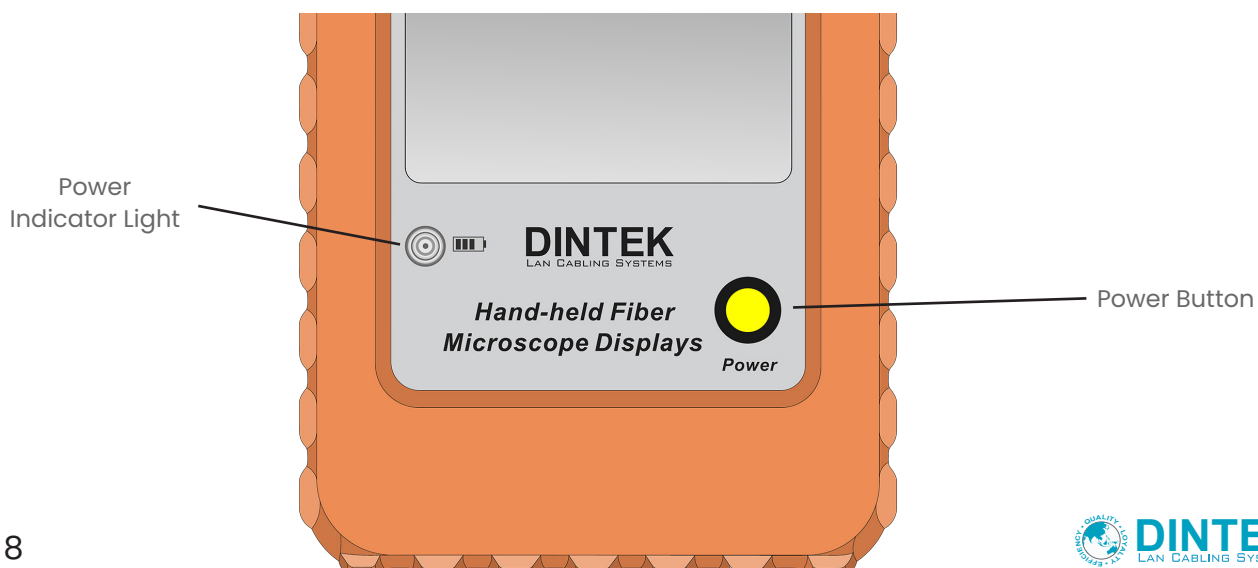


On/Off Control

Press the power switch to turn the unit on, then press it again to turn the unit off.

AC Power

Using the power adapter has the following advantages: Using external power (DC/AC power adapter/charger) to power the LCD directly from a DC/AC power source, or charge the battery pack. Both can be accomplished simultaneously.



Technical Information

Product Specifications

Magnification	250x
Resolution Ratio	1 um
Display	3.5" TFT-LCD, 960x240 pixels
Video Output	NTSC / PAL
Weight/Dimensions	0.18 kg / 18 x 4 x 3.5 cm
Probe Cable Length	1.2 M
Power Supply	12.6V rechargeable Li Battery
Monitor	0.30kg / 14.5 x 7.5 x 4 cm 0.40kg / 17 x 10 x 4.5 cm
Operation Temp.	-20°C~+50°C
Storage Temp.	-30°C~+60°C

Product Parts List

Type	Product Description	Qty
Standard Parts List	250x Inspection Probe	1
	3.5" TFT-LCD Monitor Display Unit	1
	25-U-M Bulkhead (Used for FC/SC/ST/E2000 patch cord UPC termination)	1
	125-U-M Bulkhead (Used for LC/MU patch cord UPC termination)	1
	SC-PC-F Bulkhead (SC UPC style bulkhead)	1
	FC-PC-F Bulkhead (FC UPC style bulkhead)	1
	LC-U-F Bulkhead (LC UPC style bulkhead)	1
	12.6V Lithium-Ion Battery	1
	Mains Voltage Power Adaptor	1
	Carrying case	1
	Manual	1
Optional Parts List	25-A-M Bulkhead (Used for FC/SC/ST/E2000 patch cord APC termination)	
	125-A-M Bulkhead (Used for LC/MU patch cord APC termination)	
	SC-A-F Bulkhead (SC APC style bulkhead)	
	FC-A-F Bulkhead (LC APC style bulkhead)	

Maintenance

Refers to a potential product hazard, it requires a procedure which, if not correctly followed, may result in component damage. Do not proceed unless you understand and meet the required conditions.

Product Warranty

We warrant this equipment against defects in material and workmanship for a period of one year from the date of original shipment. We also warrant that this equipment will meet applicable specifications under normal use. During the warranty period, we will, at our sole discretion, repair or replace any defective product or part free of charge should the equipment need to be repaired.

LCD Display Unit

The warranty will become null and void if:

1. the equipment has been tampered with, repaired, or worked upon by unauthorized individuals.
2. the warranty label has been removed.
3. product enclosure screws, other than those specified in this manual, have been removed.
4. the product enclosure has been opened, other than as explained in this manual.
5. the equipment serial number has been altered, erased, or removed.
6. the equipment has been misused, neglected, or damaged.

Online Resources

Download <https://www.dintek.com.tw>

CONTACT US

For more information regarding this product or other DINTEK products, please contact us online or email us.

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