

Portable Fiber Optic Inspection Microscope with Display

Description

A fiber optic microscope integrates fiber optic technology to enhance traditional microscopy. At its core, it utilizes fiber optics to deliver and control light, offering high-resolution imaging while maintaining a compact and portable design. The system's ability to provide bright, and adjustable illumination makes it particularly effective for a wide range of applications, from examining biological specimens to inspecting intricate electronic components. Its design focuses on combining advanced optical performance with practical features for ease of use and versatility in various settings. Overall, fiber optic microscopes are valued for their superior imaging capabilities, adaptability, and user-friendly design, making them a valuable tool in both professional and research environments.



Features

1. Fiber Optic Illumination:

- (a) **High-Intensity Light:** Uses fiber optics to deliver bright, consistent lighting to the specimen.
- (b) **Flexible Light Delivery:** Allows for precise control over lighting conditions and positioning.

2. Compact Design:

- (a) **Portability:** Compact and lightweight compared to traditional microscopes.
- (b) **Space Efficiency:** Designed to operate in environments where space is a constraint.

3 Enhanced Resolution:

- (a) **High-Quality Optics:** Equipped with advanced optical components that provide high-resolution images.

4. Wide Range of Applications:

- (a) **Versatility:** Can be used in various fields including biology, materials science, and electronics for examining samples ranging from biological tissues to microelectronic components.

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5. Minimal Heat Generation:

(a) **Cool Illumination:** Fiber optic lighting systems produce less heat, reducing the risk of damaging heat-sensitive samples.

6. Customizable Illumination:

(a) **Adjustable Light Sources:** Often come with adjustable light sources or filters to enhance contrast and clarity based on specific imaging needs.

Benefits

1. Improved Image Quality:

(a) **Clearer Imaging:** The high-intensity and adjustable lighting system contribute to clearer and more detailed images.

2. Enhanced Flexibility:

(a) **Versatile Usage:** Adaptable to different environments and specimen types, enhancing its utility in diverse applications.

3. Portability:

(a) **Field-Friendly:** The compact design and light weight make it easy to transport and use in various locations.

4. Reduced Heat Damage:

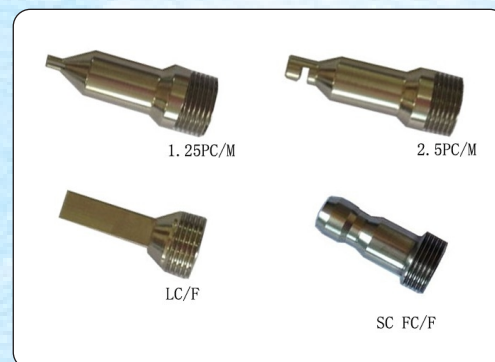
(a) **Safe for Heat-Sensitive Samples:** The minimal heat output prevents thermal damage to delicate specimens.

5. Ease of Use:

(a) **User-Friendly:** Often designed with intuitive controls and features that simplify operation and reduce learning curves.

6. Low Maintenance:

(a) **Durable Design:** Fiber optic components generally require less maintenance compared to traditional lighting systems.



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Monitor Introduction

- 1) Portable product is able to use in any place and any time, it's easy to hold and do not need complicated equipment that hinders the inspecting and repairing.
- 2) Monitor: 3.5" high image resolution monitor enable to show clear image that fits any place to use.
- 3) Long work time: Equips with Lithium battery of high capability, each 2 hours recharger durables 4.5~5 work hours
- 4) Humanized design of appearance: Hand-hold design for professionals. Easy operation without taking off gloves speeds your works. Clasp ring at bottom fits to all chains and use in all environments.
- 5) Support 12v max 400mAh DC power for camera: It's convenient for user to check camera condition and correct direction of camera, so to make installation and repairing easier.

Specification

Magnification	x100, x200 & x400
Display	3.5" TFT color LCD
Image Resolution	960 x 240
Video in	USB
Power out	DC power out x1 (Support CCD camera of power source/ Max electric currency 400mA)
System Format	NTSC/PAL
Status Indicator	2 LED(Power IND=green/Charging IND=Red)
Power Source	Built-in rechargeable Lithium battery: 3.7V 2000mA/h
Power Source	External power: DC 5V 1.0A adapter
Dimension/Weight	180mm(L) x 98mm(W) x 30mm(H)/250g
Working Environment	-10 to +60 c, humidity 90%

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