



**Precision Rated Optics**

*Work with a PRO!*

# VIP-35 Manual

*Video Inspection Probe*



## Foreword

Thank you for purchasing our products. Before assembly and use, 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 understand the following conventions before using the product described in this manual.

### **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.

## Introduction

### **Hand-held Probe Introduction**

The VIP-35 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 backside of patch panels or disassemble hardware devices prior to inspection.

Many patch panels are designed to allow the front connector to be easily inspected, but the back one 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 product offers a fast and effective means of installing, troubleshooting or maintaining fiber optic patch panels.

### **Inspection of Cable Assemblies**

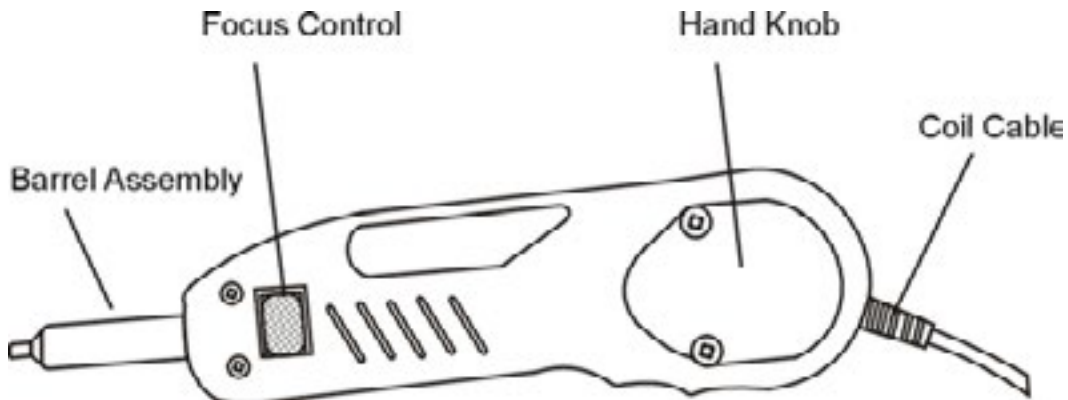
When Video Inspection Probe is equipped with proper Adapter Tip, you can also inspect patch cords, pigtails, and cable assemblies

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## Structure/Parts

### A. Analog Probe



This probe utilizes an analog CCD, which outputs an NTSC or a PAL signal. The signal is routed through a 4-pin connector that routes power into the probe, and the video signal out of the probe. This unit is suitable for use with our hand held LCD display.

#### **a 1. Barrel Assembly**

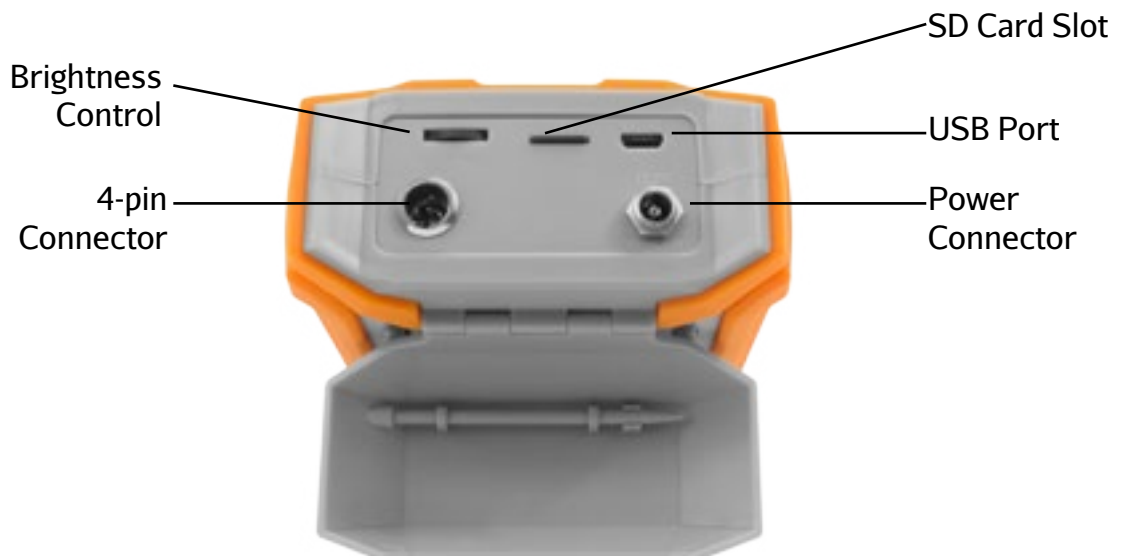
The barrel assembly houses the optics which accommodates different adapters, such as FC, SC, ST, LC, E2000, MTRJ and other customized PC or APC adapters.

#### **a 2. Focus Control**

When the figure shows on monitor, screw the focus control to make it clearest.

### B. Structure / Parts

#### **Top View**



## 3.5 Inch LCD Monitor



These monitors can be powered by an output 110-240V DC/AC or a rechargeable Li-ion battery equipped inside. Video input is dedicated to PAL/NTSC formatted probe. All of the display's controls are built into the handle for easy access.

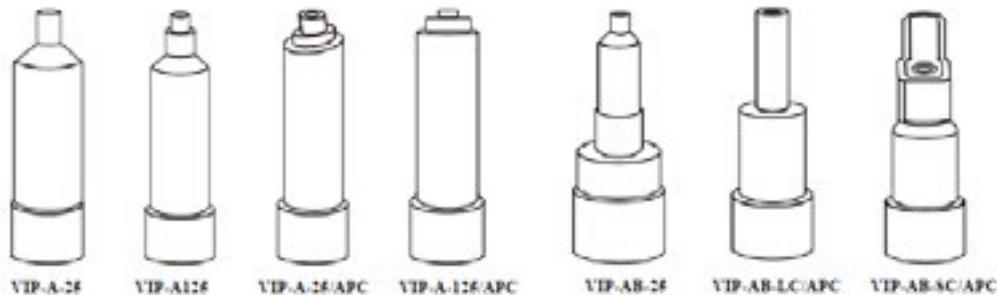
### **b 1. Photo Snapping**

When the 'Power Switch' is turned on, pressing 'Camera' will allow you to take a photo for the inspection.

### **b 2. Data Outputting**

If you need to check the data saved in the SD card, you can either connect the monitor via USB cable to your computer, or take the SD card out of the slot and read it with a card reader.

## C. Standard Tips

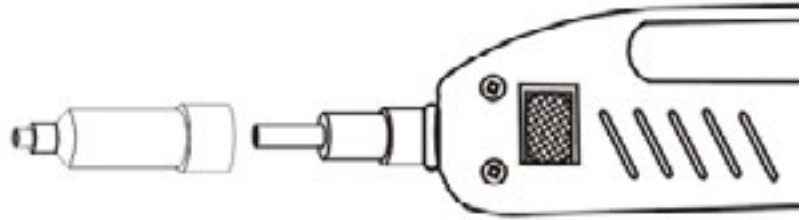


## Installation

### Tip Assembly

#### **Installing Tips on Probe**

Assembly & Tip Installed Standard



#### **Step 1**

Locate tip you want to install and look at the threaded end. This screw acts as a “key” and is already mounded with the Key Channel. DO NOT try to screw the Key Channel off from the threaded Key, which might destroy the whole probe.

#### **Step 2**

Slightly screw the Key that you need onto the Key Channel.

### LCD Monitor Assembly & Controls

Using the LCD Display with the Probe Connect the Probe to the Display

#### **Step 1**

Connect the cable from the probe to the monitor using the 4-pin connector on the bottom of the monitor.

#### **Step 2**

Connect the AC power adapter/charger if necessary.

### **On/Off Control**

(Toggle switch) Press upward to turn the unit on, press downward to shut the unit off.

### **AC Power**

Using the DC/AC power adapter has the following advantages: Use 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.

## SPECIFICATIONS

Item / Model No.	VIP-35 Kit	VIP-35 w/Data
<b>Magnification</b>	400X	
<b>Display Size</b>	3.5"	
<b>Dimensions (HxWxD)</b>	6.69" x 3.94" x 1.77"	
<b>Weight</b>	14.1 oz	
<b>Display Type</b>	TFT Active Matrix	
<b>Video Output</b>	PAL / NTSC	
<b>Power</b>	12V DC Built-in Li-ion Rechargeable Battery	
<b>Input Power</b>	110-240VAC Adapter	
<b>Power Supply</b>	AC or DC Operation	
<b>Battery</b>	3 Hours	
<b>Charging</b>	3 Hours	
<b>Operating Temperature</b>	4° F ~ 122° F (-10° C ~ 50° C)	
<b>Connectors</b>	1.25mm, 2.5mm Patchcord Tips	
<b>Data Storage</b>	No	Yes
<b>Data Download</b>	No	Yes
<b>Warranty</b>	Standard 1-Year Manufacturer Warranty (Extended Warranty Available)	

## Adapter Type Description

VIP-A-25 (2.5mm UPC Male)	FC/SC/ST/E2000 patch cord UPC termination
VIP-A-125 (1.25mm UPC Male)	LC/MU patch cord UPC termination
VIP-A-25/APC (2.5mm APC Male)	FC/SC/ST/E2000 patch cord APC termination
VIP-A-125/APC (1.25mm APC Male)	LC/MU patch cord APC termination
VIP-AB-25 (2.5mm UPC) Female)	FC/SC/ST/E2000 UPC bulkhead
VIP-AB-125 (LC UPC Female)	LC UPC bulkhead
VIP-AB-SC/APC (SC APC Female)	SC APC bulkhead
VIP-AB-FC/APC (FC APC Female)	FC APC bulkhead
VIP-AB-LC/APC (LC APC Female)	LC APC bulkhead

### VIP-35 Kit Standard Package Includes:

VIP-35, 400X Inspection Probe and Monitor, AC/DC Charger, FC/SC Bulkhead Adapter, LC Bulkhead Adapter, 2.5mm Universal Adapter, 1.25mm Universal Adapter, Soft Carrying Case

### VIP-35 w/Data Storage Kit Standard Package Includes:

VIP-35, 400X Inspection Probe and Monitor, AC/DC Charger, FC/SC Bulkhead Adapter, LC Bulkhead Adapter, 2.5mm Universal Adapter, 1.25mm Universal Adapter, USB Data Cable, Soft Carrying Case

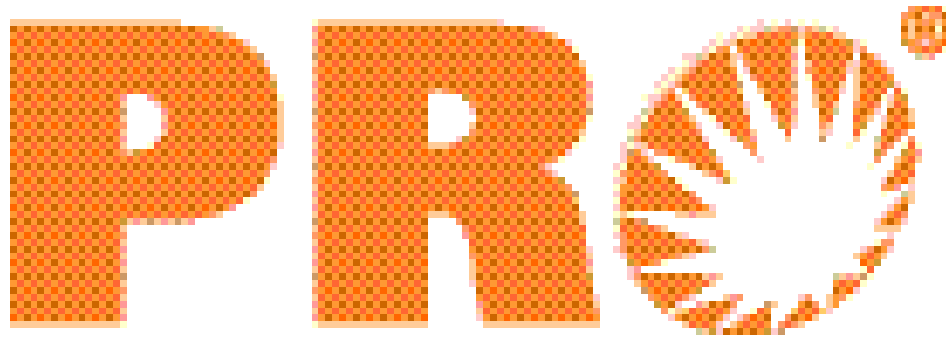
## Warranty

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 for any defective product free of charge should the equipment need to be repaired.

### **IMPORTANT**

The warranty will become null and void if

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



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