ODM VIS300 Specs Provided by www.AAATesters.com

User's Guide

VIS 300 - Video Inspection Scope



VIS1-00-2000, Rev A, 6-09-10 Specifications subject to change without notice

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Section 1 - General Overview

A. The purpose of this user's guide is to familiarize the user with the features and benefits of the VIS 300s. Please complete the enclosed registration card to receive product updates and application information. You may also visit our web site at <u>www.odm-inc.com</u> or email <u>tech.support@odm-inc.com</u>. ODM's office hours are 8 a.m. to 5 p.m. Eastern Time (US). Please see below for additional information:

Optical Design Manufacturing Inc.

143 Lake St, Laconia, NH USA, 03246 Telephone: (603) 524- 8350 Fax: (603) 524-8332 Email: <u>tech.support@odm-inc.com</u>

B. Unpacking and inspection

The VIS 300 is carefully inspected and packed according to standard shipping practices. The individual components of the VIS 300 systems include:

- 1. VIS monitor housed in a protective nylon padded pouch
- 2. VIS Probe with SC bulkhead adapter tip attached.
- 3. AC Charger for VIS monitor
- 4. 2.5m universal connector adapter tip
- 5. Basic cleaning pads with fiber wash pen solution
- 6. Hard carry case
- 7. User's guide and warranty information

Section 2 - Operating Instructions and Feature Overview

The VIS 300 is an extremely easy to use video fiber connector inspection system. The VIS 300 advances field connector inspection by a unique focus system that virtually eliminates the need for the user to place his or her hand in the same position each time for effective focus control. The user simply inserts the probe into the connector adapter and turns the entire probe ½ to ½ turns for complete focus range. No longer is it necessary for the user to keep one hand on the focus wheel.

The VIS 300 includes a bright 3.5-inch LCD display and precision optics to provide an unmatched Field of View (FOV) of 630µm by 440µm. Extended-use Lithium Ion batteries provide 8-10 hours of continuous use. The included "smart AC charger" charges the battery in 3 hours and allows the unit to continue to operate during the charging cycle. The VIS 300 comes with two user-selected adapter tips. Optional tips for most commonly used connectors are available.

The VIS 300 monitor is supplied in a padded nylon case. Both the probe and monitor are transported in a hard carry case that also includes the charger, extra adapter tips and cleaning aids.

For digital archiving of the connector polish, ODM offers the VCM 410 Video Capture Module, an accessory that allows quick storage of the image to any Windows-based computer. In addition, the VIS 300 hand-held display may be equipped with the video capture module internal to the monitor display case. Please call ODM to learn more of this feature.

Please refer to Figure 1 below for reference to control features and buttons:

1. Adapter Tip Ring – Adapter tips allow the VIS 300 to access either the bulkhead panel connector or the actual connector end if access is available. The VIS 300 is supplied with two adapters, the SC bulkhead adapter and a 2.5mm universal adapter tip to allow inspection of any 2.5 mm ferrule connector (SC, ST or FC).

To connect the appropriate adapter tip, place the tip on the end of the probe. Carefully screw the adapter to the **Adapter Tip Ring** completely and *finger tight only. DO NOT HOLD OR TURN THE FOCUS RING WHILE ATTACHING THE ADAPTER TIP.* For bulkhead adapters, it is helpful to align the key of the adapter tip to the center position facing the user.

2. **Focus Ring** – Two focus methods are used to adjust the image while using the VIS 300. The first technique is used when using any of the "universal" tips for direct connector inspection. To focus, insert the connector into the adapter tip and adjust the image by turning the Focus Ring with the users thumb.

To focus on the bulkhead connector surface, the VIS 300 uses a unique focus system by use of specially equipped adapter tips. These bulkhead tips include key way devices to lock the VIS probe into the bulkhead under inspection. To focus on the bulkhead, simply insert the bulkhead adapter tip into the bulkhead and rotate the probe slightly either direction for full focus control. The probe may be held anywhere while rotating, allowing for much easier focus control.

3. **Probe Body** – The Probe Body houses the optical interface, camera system and lighting system. The probe body houses no user serviceable devices inside the housing. Please refer to the maintenance section for proper care of the optical interface at the tip of the probe.

- 4. **VIS Display Case** The VIS Display Case include the 3.5" LCD display, battery and control features to display the required image. No user serviceable components are found inside.
- 5. **Conn/Probe** This control button is functional only on the VIS 400 model. Please call ODM Inc. for availability of this upgrade.
- Probe Input Insert the probe connector to the connector port located on the side of the VIS display case. Power to the probe is automatic and will remain powered while connected. To conserve on battery use please remove the probe from the display case during periods of inactivity.
- 7. **Brightness Control** Brightness control is adjusted with the up/down arrow control buttons. Please be advised that the VIS 300 has a default position of two positions below the brightest possible image. This brightness control allows the user to discern defects with greater ease.

8. See #7 above

9. **AC Charger input** – If the VIS 300 display does not illuminate the screen once it is powered on, then the battery must be charged. To charge the battery and simultaneously use the VIS 300, insert the AC charger connector into the port on the lower left side of the display case.

Total charge time is approximately three hours and indicates a fully charged battery by displaying a green LED on the charger. While charging this LED remains red.

- 10. **Power On** The VIS display will indicate power available to the LCD and Probe by indication of the green LED. During low battery conditions the LED will blink and continue to provide 1 hour of operation.
- 11. **Power** Power to the VIS display is enabled by pressing the Power control button. Pressing this button while the unit is ON will power the unit OFF.

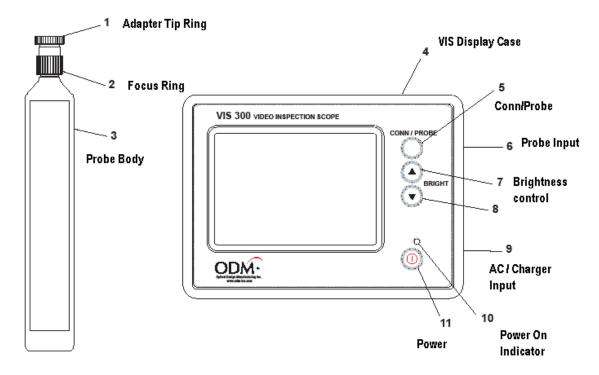


Figure 1

Section 3 – General Care and Maintenance

- A. General overview This precision optical device includes components that should be treated with care when handling. Although ODM has designed this product with field ruggedness in mind the user must take certain precautions when handling this device. Please keep all protective dust caps in place when not in use.
- B. Probe optical lens care & cleaning The optical lens assembly is located on the tip of the probe. To access the external surface of the lens assembly remove the adapter tip. To remove the adapter hold the adapter in the hand and gently rotate the Adapter Tip Ring in a counter-clockwise position with the other hand. Do not turn the focus ring to attempt to remove the adapter tips. Once the adapter tip is removed the external lens assembly may be inspected and/or cleaned. To clean this surface gently wipe off debris with appropriate lens cleaning solutions. Typical eyeglass cleaning materials may be used for this procedure. For more recommendations on this subject please call ODM Inc. @ 603-524-8350.
- C. Display maintenance The VIS 300 is housed in a padded protective nylon case. Although this case provides field abuse protection, the VIS 300 display must be protected from direct impact. Should the display need surface cleaning, optical grade cleaning solutions and tissues may be used.

- D. VIS 300 battery maintenance The VIS 300 includes a rechargeable Lithium Ion battery capable of powering the unit for more than 8 hours of continuous use. The VIS 300 includes a "smart charging adapter" that charges the VIS 300 and shuts down the charging when fully charged. Approximately three hours are necessary for full charge. In the event the display does not power on when the power switch is depressed, insert the AC charger into the lower right side charge port. Power to the display will be restored once the charger is connected.
- E. Warranty & Repair ODM inc. warranties this product against defective material and workmanship for a period of two years from date of shipment to the original customer. Should the unit be non-functional please call the ODM support line @ 603-524-8350. In no event shall ODM's liability exceed the original purchase price of the product. In all cases of repair the user must obtain a RMA prior to return of the instrument. In no event will the warranty apply to misuse, unauthorized repair, neglect or accident.

FOV (Field of View)	FOV 630µm X 440µm
Resolution	³ ⁄ ₄ micron
Light Source	Blue LED
Lighting Technique	Coaxial
splay screen size	3.5 inch diagonal
Battery Life	8 to 10 hours continuous
Battery charge time	Three hours
Size	Probe - 7"x 1"x .75" (180mm x 25mm x 19mm) Monitor - 4.75" x 3.5" x 1.25 (120mm x 89mm x 32mm)
Weight - (monitor, probe & case)	1.2lb (.54kg)
Operating Temp.	0° to 50 ° C
Storage Temp.	- 40 ° to 70 ° C

Thank you for choosing Optical Design Manufacturing Inc.

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