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MODULAR FIBERSCOPE / VIDEOSCOPE & ARTICULATING VIDEOSCOPE SYSTEM USER MANUAL V01.3





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Front view



Rear view

Power switch

HDMI Type A
Monitor Output

Milliscope HD Analog Handle

Wenu/ Mode Store/Select Press for still image capture Press when ejecting USB memory storage Connector detail Release button Retention tab

Fiberscope camera handle: top detail



Fiberscope camera handle: bottom detail



Milliscope HDV Video Handle

Base unit Keypad detail

Up Arrow

Disabled in Milliscope HDV (CMOS) mode



Store/Select

Press for still image capture Press and hold for video capture

Down Arrow

Press when ejecting USB memory storage

Connector detail



Top View



Bottom View

Milliscope HDV Video Handle Controls

Power Indicator

Green when powered on



Rotate image 90 deg. clockwise

Capture Button

Press to capture still image Press and hold for video

LED Button

Adjust probe illumination through 5 power settings



Mode Button

Two operating modes available AUTO and MAN(manual)

Press and hold mode button for (3) seconds to switch between AUTO and MAN

Decscription of mode level functionality outlined below

Manual Mode Detail

Press LED or Mode button once to view current level settings on screen Press LED or Mode button again while level settings are displayed to change setting(s)



Once in Manual Exposure Mode press MODE button to adjust exposure setting.

Manual Mode has 10 settings with 1 being the dimmest and 10 the brightest.

When system is powered off/on MHDV handle will remain in whichever *mode* is currently selected.

However, the Manual Mode level setting will default to level 1

when switching between AUTO and MAN modes.

Milliscope HDX Articulating Video Handle Controls



Manual Mode Detail

Press LED or Mode button once to view current level settings on screen Press LED or Mode button again while level settings are displayed to change setting(s)



Once in Manual Exposure Mode press MODE button to adjust exposure setting.

Manual Mode has 10 settings with 1 being the dimmest and 10 the brightest.

When system is powered off/on MHDV handle will remain in whichever *mode* is currently selected.

However, the Manual Mode level setting will default to level 1

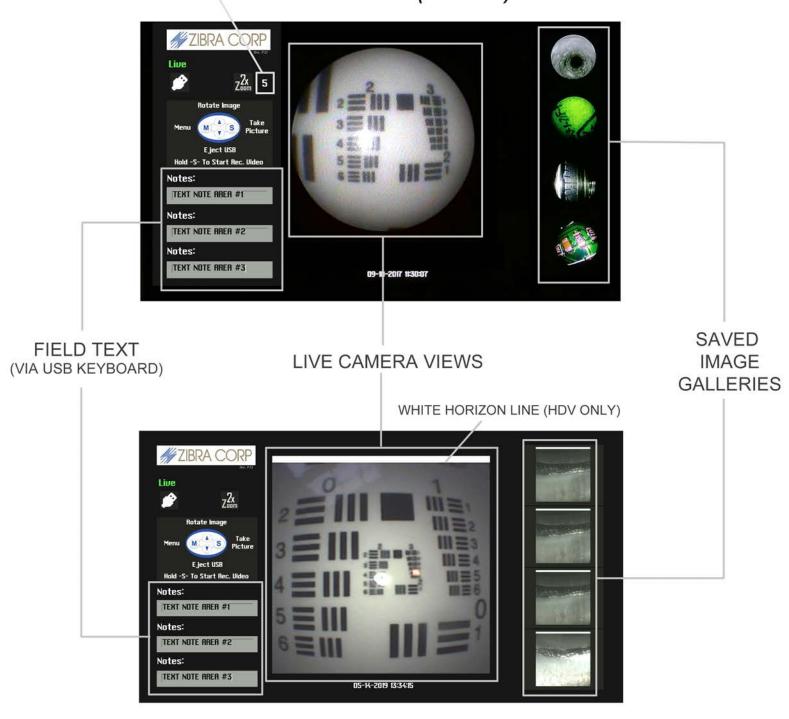
when switching between AUTO and MAN modes.

Monitor Interface Layout

The Milliscope HD/HDV/HDX contains an integrated firmware system that allows you to use any High Definition compatible external monitor as your display.

Since the software and display characteristics are built directly into the camera system, the information will display correctly with minimal setup required.

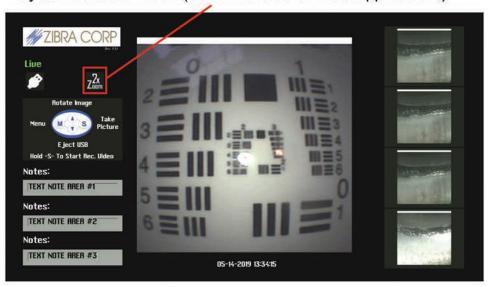




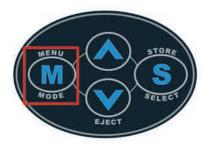
MILLISCOPE HDV/HDX (VIDEO)

Instructions for setting Milliscope HD/HDV/HDX system Digital Zoom

System set at 2X zoom(recommended for most applications)



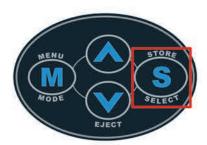
Step 1: Press Menu button on front of Milliscope HD base unit



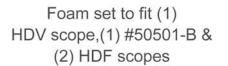
Step 2: The Mode Menu will appear and Set Zoom will be highlighed in white



Step 3: Press Select button to choose desired magnification



1.a CONTENTS



12" HD Monitor w/ Pan & Tilt Mount Removable Lithium Polymer Battery #51124



Spare #51124 Lithium Polymer system battery

Milliscope HD wireless keyboard & charging systems Custom Milliscope HD base unit

1.b POWER SETUP

Step1: Install a fully charged #51124 system battery and connect base unit power and monitor power cables to battery as shown (use two outside battery ports)



Step 2: Power ON monitor (see green arrow)



Step 3: Power ON Milliscope HD base unit (see green arrow)



1.c POWER SETUP cont.

Step3: Carefully lift the Milliscope HD base unit up and out of it's foam housing to access rear panel for power button.

Also to access CMOS VIDEOSCOPE / NTSC FIBERSCOPE mode selection.



Please be aware that the system battery will automatically enter a power off storage mode if it does not sense a system power draw for more than 15 seconds. IF THIS OCCURS AND YOUR SYSTEM WILL NOT POWER ON NORMALLY, SIMPLY PRESS THE BUTTON ON THE LEFT SIDE OF THE BATTERY(SEE GREEN ARROW) TO INITIATE NORMAL POWER STATE. YOUR SYSTEM WILL NOW POWER UP NORMALLY.



1.d POWER SETUP cont.

The #51217 portable base unit with 12"video monitor system is assembled and ready for use. Please refer to the rest of user manual v1.03 for all other system usage instructions.

Thank you!



2a. Base Unit power connect

Step 1: Remove battery cover (slide to right)

Step 2: Insert battery w/ indicator lights facing down

Step 3: Slide on battery cover







Step 4: Plug base unit power cable from battery USB port (either green circled port) to base unit







2b. Monitor Setup

Step 5: Connect 7" portable monitor system video & power cables to monitor





Step 6: Plug monitor power cable into battery USB (either green circled port) plug HDMI video cable into base unit monitor output







2c. Battery Power Indicator and Restart Function



To check the power status of the portable Milliscope HD base unit without removing the battery, firmly press button (circled above) on front of base stand. The indicator lights visible on the bottom of the unit(see below) will light to show charge status.



Please be aware that the system battery will automatically enter a *power off* storage mode if it does not detect a power draw for more than fifteen seconds.

If this occurs and your MHD system will not power on normally, firmly press the battery indicator/ restart button on base unit stand. Your system will now power up normally.

2d. Ready for use



The #51122 portable base unit and 7" video monitor system is assembled and ready for use. Please consult the Milliscope HD/HDV/HDX Modular Fiberscope/ Videoscope User Manual V1.03 for all other system usage instructions. Thank you!

General Operating and Maintenance Information

- Always place and keep *Milliscope HD* unit on a flat, level, and secure surface.
- In the event of suspected damage or failure, do not operate. Have the device inspected by qualified personnel.
- Do not operate this product if there are signs of tampering or any of the covers are removed.
- Do not allow spilling of liquids on the Milliscope HD unit.
- Do not immerse any of the components in liquid.
- Do not operate the device outside of the specified input voltage range.

CLEANING

- Use a lightly damp cloth to wipe down exterior of unit. Allow unit to dry before use.
- Use Isopropyl alcohol and a soft, clean wipe or cotton swab to clean optical surfaces.
- Contact with acids and strong solvents should be avoided as serious damage can result.

Warranty Statement

Zibra Corporation certifies that all our factory borescopes and accessories will be free of defects in materials and workmanship for one year from the date of first retail purchase.

Video, lighting and some accessory products are covered by and subjected to the terms of the manufacturer's warranty.

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Service & Support

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