

Empire Bio Diagnostics' VIB, Visual Inspection Borescope offers a DIGITAL High-Resolution HD chip camera for instant visual detection and documentation of internal LUMENS for debris and damage of flexible and rigid endoscopes. Empire Bio's VIB system includes an all-in-one computer and viewing monitor with robust, user-friendly software allowing for still image capture, video clips, email sharing, archiving, and reporting. Adhering to current Guideline recommendations the system reduces the risk of device related infections and failures, helping to keep patients safe.

## SOFTWARE FEATURES

- All endoscope inventory is stored for immediate retrieval
- Images can be still, or video captured, labeled, archived, and emailed
- VIB Proprietary Software can be loaded with your manufactures IFU's
- The IMAGE LIBRARY offers comparative image access

## HARDWARE FEATURES

- ONE-PASS Camera Wand, allows inspection thru Control Body suction valve to distal tip
- Single camera wand cable plugs into connection on camera box
- All Camera Wand sizes connect to a single camera box port
- White graduation markings on camera wand
- High-definition camera with 120-degree field of view; 400x400 pixel images
- AUTO adjustable brightness control for sharper images
- No White balance calibration step
- All-in-one computer and viewing monitor included
- 1.8mm wand insertion diameter; 200cm wand working length; variable diameters and lengths upon request
- Water-proof camera wand is easy to clean with enzymatic detergent/disinfectant wipes

## INSTRUCTIONS FOR USE

1. Before lumen/channel visual inspection of the endoscope, complete your recommended cleaning process "at the sink".
2. Remove all connectors and cleaning accessories from the endoscope.
3. OPTION: Either leave the endoscope/device in the sink to inspect OR remove it to a counter/table space where your VIB system is available to use for inspection.
4. Turn on the VIB camera box and all-in-one computer/monitor and confirm observation of light at the distal tip of the camera wand and the VIB ICON is visible on the monitor screen.
5. Follow the VIB instruction manual for proper boot up.
6. Using short strokes, begin to slowly advance the camera wand distal tip into either the CONTROL BODY SUCTION CYLINDER, BIOPSY PORT or DISTAL TIP INSTRUMENT/SUCTION CHANNEL.
7. While advancing the camera wand observe images for any foreign debris, discoloration, tears or scratches. Touch the GREEN button on the monitor to capture still images or the RED button for a video clip.
8. Remove camera wand from the device and turnoff VIB camera box.
9. Disconnect camera wand from camera box and secure water-resistant soaking cap over connector.

## SCOPE INSPECTION GUIDELINES & RECOMMENDATIONS

### IAHCSMM

(Endoscope Reprocessing Manual, 2017, pg.61)

"At the workstation, each endoscope must be carefully inspected for cleanliness, proper function and possible defects; therefore, adequate lighting and magnification tools are essential."

### ANSI/AAMI ST91: 2015

"Tools such as video borescopes of an appropriate dimension (length and diameter) may be used to visually inspect the internal channels of some medical devices.3"

### CDC

"Careful visual inspection should be conducted to detect the presence of any residual soil. Inspection using magnification and additional illumination might identify residues more readily than the unaided eye. Users should inspect every device for organic soil and contamination in a simple functionality test."

### 2017 AORN Guidelines

"Lighted magnification should be used to inspect endoscopes and accessories for cleanliness and damage.4"

"Endoscopic cameras and borescopes penetrate the lumen and allow for improved visual inspection.4"

### FDA

FDA Medical Safety and Alert document mentions "inspecting the inside of the devices (arthroscopic shavers) and using an endoscope to inspect the channels of the shaver handpiece."

### SGNA

"Visual inspection is recommended to make sure the endoscope is visibly clean."

"Inspect equipment surfaces for breaks in integrity that would impair either cleaning or disinfection/sterilization."

