

**Vividia® VA-4-20/VA-4-28/VA-4-40/VA-4-55/VA-4-80 Four-Way Articulation Videoscope Borescope; Vividia VA-2-80/VA-2-53/VA-2-40/VA-2-28 Two-Way Articulation Videoscope Borescope**

**Vividia® VA-4-4015 Articulating Borescope/Videoscope** is a portable, easy to operate, 4-way articulating industrial borescope with an ergonomic design. The probe insertion tube and cable camera have a diameter of less than 4.0mm. The length of the insertion cable is 1.5 meters and covered with braided tungsten mesh for durability in harsh industrial working environments. The high-quality image and bright LED lights make it perfect for examining industrial pipes and tubes, or the narrow and complicated inner spaces of a device for corrosion, crack, weld, foreign objects, etc. The four-Way articulation of camera head is very useful when one is required to see hard to reach angles or hard to view areas. The most suitable applications for the **Vividia® VA-4-4015** are jet airplane turbine engines, gas power turbine engines, precision manufacturing, small tubes and pipe, mining, and oil/gas machinery.

Technical Specification: Use VA-4-40## as example

**Insertion Cable Probe Camera**

- Diameter is less than 4.0mm
- Length is less than 1.5 meter with braided tungsten sleeve (can be custom made from 30 cm to 300 cm long depending on customer requirement); **VA-4-4010**, 1 meter; **VA-4-4030**, 3 meters.
- Bending tip length: <20mm
- 4 bright white LED lights with adjustable brightness
- Camera sensor resolution: > 200,000 pixels
- Focus depth: 8mm to 100mm (can be customized from very close to infinity)
- 4-Way articulation (left to right; up to down);
- Maximum bending (articulating) angle for any direction is larger than 150 degrees
- Insertion cable camera Waterproof IP58
- Field of view: >90°

**Display Monitor and Articulation Control Unit**

- 4.5" LCD display screen
- Image control functions: Preview; Record videos and take pictures
- SD memory card up to 32G
- Image rotation and flip; Zoom in and out; Image comparison
- Rechargeable Lithium battery 3000mAh
- Automatic white balance
- Support 15 languages; Date and time stamp
- 4-way articulation with single side bending angle of 150 degree
- Video out
- Auto Power Off
- Video format: avi; Photo format: jpg
- AC power charger: 100 to 240V in, 5V DC out

**Vividia VA-4-4015 Articulating Borescope/Videoscope** package includes hard case; videoscope; video out cable; SD card; A/C charger; User Manual



## End User's guide for Vividia VA-4-4015/VA-4-3915/VA-4-4010 Articulating Video Borescope

### Monitor (You can watch our How-to videos on YouTube about VA-4-4015 and VA-4-4010)

- **Reset monitor**
  - **Choose right camera!**
1. Make sure monitor is tightly connected to cable camera; And connection screw is tightened securely
  2. Do not disassemble monitor and cable camera probe if not necessary (inappropriately connecting monitor to camera probe can damage the connector parts)
  3. The monitor and handle are not water proof. Do not immerse them in water.
  4. Make sure to **choose right camera from "menu"**. Otherwise, you will see ghost images.
    - a. Press "menu"; press "up" or "down" arrow to highlight "camera", press "OK"
    - b. Press "up" or "down" arrow to chose "**VGA 3.9mm**". press "OK"
    - c. You should see clear images.
  5. If all else fail, you can reset monitor by press "**reset**" button on right side of monitor with a needle-like small object.

### Insertion tube and probe camera

6. Do not immerse the camera probe in any liquid for long time (>10 min.)
7. Do not contact any liquid other than water, salt water, machine oil, or diesel oil. (This probe is not designed acid/base resistant, or chemical resistant.)
8. Do not use the probe camera in explosive environment.
9. **The bending part is the weakest link.** Use with care for bending part. Do not expose the bending part with severe impact or excess violent bending. After bending, return the bending part to "neutral" position from bended positions.
10. When bending the probe camera, make sure the long insertion camera is as straight as possible. No tie or rolling up.
11. Avoid folding insertion tube in sharp angles and avoid blunt impact on tube.

### Cleaning

12. Clean insertion cable/tube: fabric with neutral mild detergent, then fabric wet by clean water
13. Cleaning camera end: soft fabric or cotton swabs. Water or alcohol or lens cleaning liquid
14. Cleaning whole unit: soft cloth