

## Vividia VA-850 Two-Way Articulating Borescope Videoscope Inspection Camera

Vividia VA-850 LCD/WiFi 2-Way Articulating Borescope is specially designed to inspect hard-to-reach and see areas inside complexed equipment, such as car evaporator, combustion chambers, and three-way catalytic sensors. VA-850 has a unique high temperature protection function and a small diameter, two-way 180° steering probe. It is convenient for an end user to extend the small probe into a narrow space to get clear, omni-directional video, which is displayed on the LCD screen. At the same time, VA-850 has WiFi wireless function. The video can be displayed on a mobile phone simultaneously.



The probe temperature cannot exceed 90 °C (194 °F)

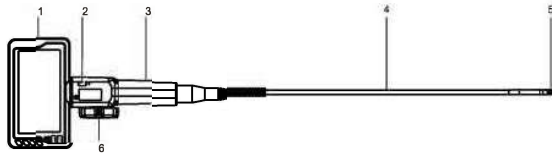
Warning: Please read this manual carefully before using this product and follow the instructions to avoid the damage caused by improper use!

### Important Notices

- Do not use this product on human body! This is not a medical device and it is not designed to be used on human.
- Keep this product out of reach of children to avoid damages or incidents.
- Keep the product clean and do not put the whole product in water or other liquids.
- Clean the tip and probe with lens-cleaning wipe or soft fabrics with isopropyl alcohol
- Keep the insertion tube as straight as possible when you bend the probe tip camera

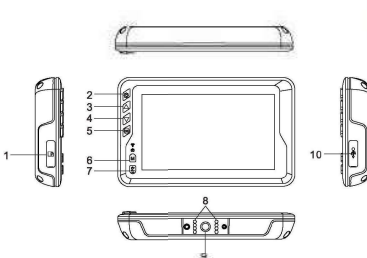
### Product Appearance

#### 1.Whole Machine:



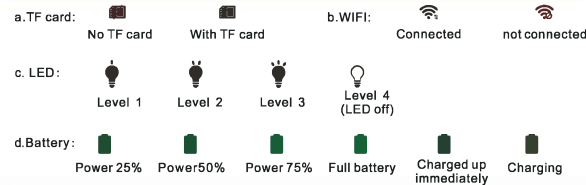
No	Name
1	4.5" LCD screen monitor
2	Photo/video button
3	Handle
4	Flexible insertion tube, 1 meter long
5	Probe camera, 8.5mm diameter 1920x1080 resolution
6	Steering wheel for 2-way articulation

#### 2.4.5inch Monitor



No.	Name
1	TF SD card
2	Setting
3	Up
4	Down
5	Enter /OK
6	Mode
7	Power on/off and LED lights
8	Input cable
9	1/4 inch thread
10	Type C charging port

### Icon State



### Operation steps

- On/Off: press the power on/off button for 2 second to turn on the monitor. Long press the on/off button to turn the monitor off.
- LED lights brightness adjustment: When power is on, short press the power on/off button to adjust the brightness. There are 3 levels of brightness, and the 4th level is LED lights off.
- Mode: total 3 modes. Video mode, photo mode, and album mode.
- Take pictures and record videos: Under photo mode, press "snap" button to take pictures. Under video mode, press "photo/video" button to record video.
- Review saved photos and videos: Under album mode, press "setting" to view saved files. Use "up" and "down" button to look over files. In album mode, one can delete pictures and/or video, either just the current one or delete all.
- SETTING:
  - Under "Photo" and "Video" modes, press "setting" once to set up "resolution" and "date"
    - Resolution can be 640 or 1080x720 or 1920x1080
    - Date marking to on or off
  - Under "Photo" and "Video" modes, press "setting" twice to set up "auto shutoff", "language", "format" and "WiFi on/off switch"
    - Auto shutoff: choice of off, 3min, 5min, and 10min.
    - There are choices of "English", "French", "Japanese", "Chinese".
    - Format SD card.
    - Select wifi switch, press "OK" button to turn on the wifi signal from the monitor.
    - Under your phone
      - phone
      - wifi listing, the wifi ID is "RA450M-xxxxx".
- How to connect wifi on a smartphone (Android and iOS phones and tablets) to VA- 850 borescope\*\* (The app is "AllScope" for both iOS and Android devices)

- Download app "AllScope" from Google Play store or our website to your own phone or tablet or from Apple App Store.
- Turn on wifi signal from VA-850 setting
- From your phone's setting, wifi signal, and find "RA450M-xxxxx" and choose "connect"
- Open app "AllScope", and press "Play" button on the lower right corner of the screen to start preview video.
- Long press "Down" arrow button to turn wifi signal off.

### Tech Specs

No.	Name	Value
1	Diameter of probe	8.5mm (0.334")
2	Length of insertion	1 meter (39.4")
3	Material of tube	Flexible metal and plastic multilayers
4	Field of view	60 degree
5	Focus depth	45mm to 70mm (1.77" to 2.75")
6	LED lights	8 bright LED
7	Sensor resolution	1920 x 1080
8	Bending tip length	35mm (1.28")
9	Bending angles	180 degree for each direction; two directions

Monitor	Parameter	Value
	Screen size	4.5"
	LED lights brightness	Adjustable
	Battery	Rechargeable Lithium 4000 mAh
	Use time after charge	about 6h
	Video resolution	1920x1080 Mp4
	Picture resolution	1920x1080 jpg
	Languages	English, French, Japanese, Chinese
	Storage	TF card, Max. 32G
	WiFi connection	Support (Android Only)
	Charging port	USB-C; 5V

### Application Environment

VA-850 can be used by professional maintenance and repair and diagnostic personnel to inspect precision instruments, engines, automobiles, boats, motorcycles, airplanes and aircrafts, plumbing, building and houses, air-conditioning systems, electrical equipment, mechanical systems etc.

Operating environment	Snake tube	Temperature
		-10°C to 70°C (14°F to 158°F)
		-10°C to 50°C (14°F to 122°F)
Input voltage		DC5V
Humidity	Monitor	10% to 90%
Protection class		Do not operate in the rain
		Do not operate in liquids

### Warranty

1-year limited product quality warranty.  
The followings are not covered by the warranty due to improper use:

- Damage caused by improper storage.
- Damage caused by improper disassembling.
- Damage caused by the customer's own modification.
- Damage caused by improper use.
- Damage caused by other irresistible factors.

### Warranty Card

Warranty Card	
Customer's name	Contact number
Purchase date	Inspection date
Contact address	
Reason for submission	
Overhaul date	
Inspection results	



Vividia Technologies: [www.vividia-tech.com](http://www.vividia-tech.com)

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