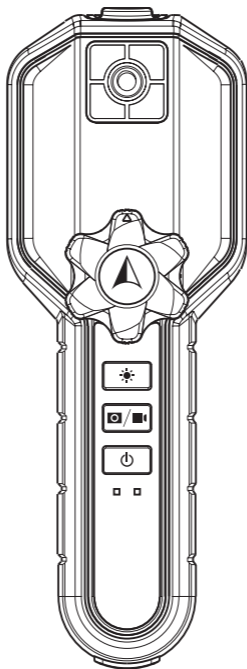


# W4239 Wi-Fi articulation videoscope



=User Manual=

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## SAFETY & CAUTIONS

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### SAFETY GUIDE

USER MUST PAY ATTENTION TO THE INFORMATION PROVIDED HERE TO ENSURE SAFETY.


We suggest you read the following statements carefully before using the system.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.


Never replace the battery by yourself. Risk of explosion if battery is replaced by an incorrect type.

 **WARNING** If this product is used without observing the information given under this symbol, it might cause injuries or loss of life.

**CAUTION** If this product is used without observing the information given under this symbol, it might cause damage to this product.


 **WARNING** HAZARD ENVIRONMENT

- Do not use this system in explosive environments such as gasoline or alcohol storage tank.

 **WARNING** FLAMMABLE GASES

- Do not use this system near flammable gases.

 **WARNING** INDUSTRIAL USAGE ONLY

 **WARNING** INTENSIVE LIGHT MAY CAUSE EYE INJURY

- Avoid looking at the probe head while LED is on.

**CAUTION** CERTAIN SUBSTANCES MAY DAMAGE THE PROBE

- Please refer to Chemical resistance below. Contact the store you purchased for unsure chemical solutions for further information.

#### Chemical Resistance

- Water
- Brake fluid
- Gasoline
- Diesel fuel
- Transmission fluid

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## CE NOTICE

The W4239 Wi-Fi articulation videoscope system is in conformance with the following standards:

- 2014/53/EU Electromagnetic Compatibility Directive
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## RoHS NOTICE

The W4239 Wi-Fi articulation videoscope system is in conformance with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive. This means that our product is both lead-free and without the hazardous substances either in the manufacturing process or in the final product

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## FCC NOTICE

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 4 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

(Sec. 15.247)

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

(Sec. 15.19)

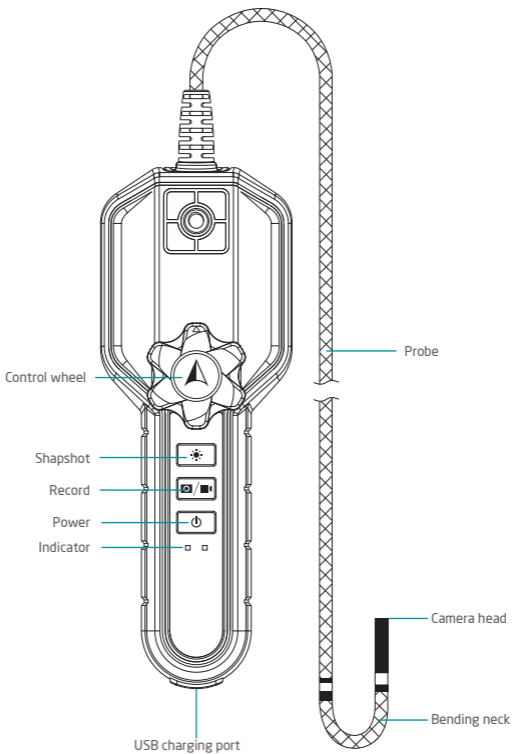
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation

(Sec. 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## PRODUCT OUTLOOK



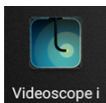
## Software(APP)

"Videoscope i2" is a specifically designed APP for the "W4239 Wi-Fi articulation videoscope" usages. It provides instinct user interface of convenient operations: LED light adjustment, snapshot, recording, and photo album linkage.

**NOTE** OS Support- iOS 10 above. Android 4 above.

### 1. Connection mobile to main system

Step 1. Install the "Videoscope i2" APP from Android Google Play or Apple APP Store.



Step 2. Connect main system to mobile device:

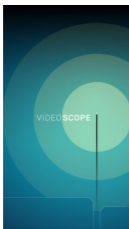
**(2) Enable mobile  
WiFi &  
search new device.**



**(3) Connect device:  
>SSID: W2145**

**NOTE** The main console power-on and system boot process may take 10~20 seconds. Generally, the tip LED turns on when system boot complete and ready for use.

Step 3. Launch the "Videoscope i2" APP



## 2. Functions & user interface

- Main screen\_ Landscape

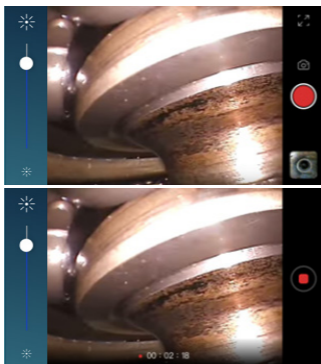


Function / Icon	Description
LED light control	Touch & drag LED brightness control bar
Snap shot/ Record	Tap the camera icon to switch snap shot/record mode
Album	Link to the original photo album of Android/iOS devices of the "Videoscope i" folder
Full screen	Hide the 2 side control function. Preview image scaling to full screen

- Main screen Portrait



- Main screen record mode





## SPECLIFICATIONS

Model name: W4239 Wi-Fi articulation videoscope  
 Model no : W4239

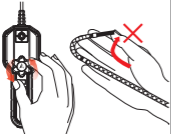

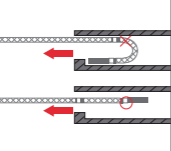
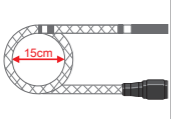

W4239 Console	
Dimensions	187*67.8*60.5 (mm) ( w/o insert probe)
Weight	365g
Still image format	1280*720 JPG (on mobile device storage)
Video resolution format	1280*720 AVI (on mobile device storage)
Battery <sup>**</sup>	4900 mAh Li-ion battery. Up to 6 hours typical operation. 2 hours charging
Power source	DC in 5V 3A, Type C, USB compatible
Wi-Fi	IEEE 802.11 b/g/n, 2.4Ghz
Antenna	Built-in
Transmission distance	0~10m (Typical open space)
Button	Power/Photo+Video/LED Adjus
Power indicator	Power on-green Low power-orange/red Charging-red Full charged-none.
Working temperature	0°C ~ 45°C
Drop Resistance	Probe 1.5 m / Main Unit 1 m
Certification	CE/FCC/TELEC/NCC
Probe	
Probe head diameter	3.9 mm
Probe head length	17 mm
Probe length	1.5 m <sup>**</sup>
Articulation angle	2 way180°
Probe head material	stainless steel
Probe material	outer braided stainless steel
Light source	Front
FOV	90°
DOF	10mm~100mm
Working temperature	-10°C ~ 60°C <sup>***</sup>
Storage temperature	-10°C ~ 60°C
Water proof(Tip side)	IP67

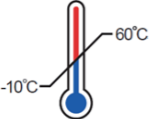


\* Recommend to turn-off and charge the battery once the LOW BATTERY red light up. Low battery and plugging the power adaptor might cause Wi-Fi connection malfunction

\*\* The maximum articulation angle may degrade over time

\*\*\* High temperature during charging/operation may cause battery degradation of performance and life

## Cautions for Use

	<p>Bending neck is a particularly sensitive area. Never bend the bending neck by hand; use only the control wheel. Keep insert probe as straight as possible while in use. Never insert or bend the bending neck by force and never over-bend any part of the probe.</p>
 <p>Save operation in green area</p> <p>Do not over rotate the control wheel or the probe will be damaged.</p>	<p>Do not over-rotate the control wheel. Stop rotating the control wheel when the bending neck reaches its maximum angle.</p>
	<p>To avoid camera head damage please straighten the bending neck to 0 before pulling out from inspection objects. In case of camera head being stuck in the inspection objects, please make sure the bending neck is straightened then pull out carefully.</p>
	<p>Never curl the probe into a circle with a diameter of less than 15cm. Before storing the probe, straighten the neck.</p>
	<p>Do not put whole probe under heavy load and avoid collision at all times. Never use the probe as a hammer or hook. Never use the probe or camera head to clear pathways or clogged areas.</p>

 <p>A thermometer with a blue bulb and a red liquid column. The scale has a mark at -10°C and another at 60°C.</p>	<p>Working temperature of probe -10°C-60°C. Storage temperature of probe 0°C-60°C.</p>
 <p>A red circle with a diagonal slash over a lit match. A yellow liquid is being poured from a small container onto the match.</p>	<p>Liquid immersion passed: Unleaded gasoline, diesel, machine oil, brake oil, transmission oil and water. Do not touch acidic, corrosive or hot material or the camera head will be ruined. When inspection a vehicle, shut off the engine. Metal and liquid under the hood may be hot. Do not get hot oil or gas on the camera head.</p>
 <p>A probe is being cleaned. A blue liquid is being poured from a container into a tube, and the probe is being swabbed with a blue cloth.</p>	<p>Use clear water or mild fluid detergent and swab provided in the cleaning kit to clean camera head after using. Do not use any corrosive liquid - such as alcohol to clean the probe or camera head</p>

## TROUBLE SHOOTING

No.	Trouble Condition	Solution
1	Cannot find the W4239 device on the Wi-Fi network list.	<ul style="list-style-type: none"> <li>• Reboot the main system console.</li> <li>• Restart the mobile Wi-Fi again.</li> <li>• Contact your local provider if it still cannot work.</li> </ul>
2	The W4239 already on the Wi-Fi network list but cannot link to it.	<ul style="list-style-type: none"> <li>• Restart the mobile Wi-Fi again.</li> <li>• Try to clean the Wi-Fi network setting temporary files:  <b>Android-</b>            (1) get to the 'settings-&gt;Wi-Fi'            (2) long tap the device SSID: W4239            (3) chose 'clean'            The steps may vary from different mobile phones.            Please refer to your original mobile phone instructions.  <b>iOS-</b>            settings &gt; general &gt; reset &gt; reset networks</li> <li>• Contact your local provider if it still cannot work.</li> </ul>
3	"Connection Failed" message on the APP screen during use.	<ul style="list-style-type: none"> <li>• Check the power status of the console.</li> <li>• Tap 'try again'. Live image will recover in about 20 seconds.</li> <li>• Contact your local provider if it still cannot work.</li> </ul>
4	Wi-Fi connection and image	<ul style="list-style-type: none"> <li>• Reboot the main system console.</li> <li>• Check the power status of the console.</li> <li>• Contact your local provider if it still cannot work.</li> </ul>
5	Wi-Fi connection and image	<ul style="list-style-type: none"> <li>• Check the APP is latest version.</li> <li>• Reboot the main system console.</li> <li>• Restart the mobile Wi-Fi again.</li> <li>• Reboot the APP.</li> </ul>







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# Manual

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