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AUTOOL[®]

AUTOOL SVB403 Articulating Video Borescope



Product Information

Specifications

- Brand: AUTOOL
- Model: SVB403
- Product Type: Articulating Video Borescope
- Website: www.autooltech.com
- Manufacturer: AUTOOL TECHNOLOGY CO., LTD

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SAFETY RULES

General safety rules

- Always keep this user manual with the machine.
- Before using this product, read all the operational instructions in this manual. Failure to follow them may result in electric shock and irritation to skin and eyes.
- Each user is responsible for installing and using the equipment according to this user manual. The supplier is not responsible for damage caused by improper use and operation.
- This equipment must only be operated by trained and qualified personnel. Do not operate it under the influence of drugs, alcohol, or medication.
- This machine is developed for specific applications. The supplier points out that any modification and/or use for any unintended purposes is strictly prohibited.
- The supplier assumes no express or implied warranties or liabilities for personal injury or property damage caused by improper use, misuse, or failure to follow safety instructions.
- This equipment is intended for use by professionals only. Improper use by non-professionals may result in injury or damage to the tools or workpieces.
- Keep out of reach of children.
- When operating, ensure nearby personnel or animals maintain a safe distance. Avoid working in rain, water, or damp environments. Keep the work area well-ventilated, dry, clean, and bright.

Handling

Used/damaged equipment must not be disposed of in household waste but must be disposed of in an environmentally friendly manner. Use designated electrical equipment collection points.

Electrical safety rules

Do not twist or severely bend the power cord, as this may damage the internal wiring. If the power cord shows signs of damage, do not use the articulating video borescope. Damaged cables pose a risk of electric shock. Keep the power cord away from heat sources, oil, sharp edges, and moving parts. Damaged power cords must be replaced by the manufacturer, its technicians, or personnel with similar qualifications to prevent hazardous situations or injuries.

Equipment safety rules

- Never leave the equipment unattended when it is powered on. Always disconnect the power cable and ensure the device is turned off when it is not being used for its intended purpose!
- Do not use the articulating video borescope in explosive environments, such as areas with flammable liquids, gases, or dust.
- Do not attempt to repair the equipment yourself.
- Before connecting the device to power, check that the battery voltage matches the value specified on the nameplate. Mismatched voltage can cause serious hazards and damage the device.
- It is essential to protect the equipment from rainwater, moisture, mechanical damage, overload, and rough handling.

Application

Before use, check the power cord, connection cables for any damage. If any damage is found, do not operate the device.

Use the equipment only in compliance with all safety instructions, technical documents, and vehicle manufacturer specifications.

If replacement accessories are needed, use only brand new and unopened products.

Personnel protection safety rules

- Do not use this product when fatigued or while under the influence of medication.
- Protective gear may be worn when using the borescope.
- Improper use of the product may cause battery leakage. Avoid contact with the battery fluid. If contact occurs, rinse with water. Seek medical attention if the fluid comes into contact with the eyes.
- Always ensure you have a stable footing to safely control equipment in case of emergencies.
- Any other use is considered beyond the intended purpose of the equipment and is prohibited.

NOTICES

Warnings

Before using the borescope, please pay attention to the following operations:

- Do not use our company's camera with host devices from other manufacturers, even if the interfaces are the same.
- Do not use this product in areas that may come into contact with live cables or electrical objects. Exposed metal parts can conduct electricity, which may lead to unexpected results.
- Keep the product out of reach of children. This product must not be used for medical or human inspections.
- Keep the product clean, avoid prolonged exposure to sunlight, and prevent direct contact with water, oil, and corrosive liquids.
- This device is not waterproof.
- Ensure that the steering push rod returns to the neutral position before removing the flexible tube. Do not forcibly rotate the dial.
- Do not twist or pull on the front curved section of the flexible tube.
- Handle with care; do not excessively bend the flexible tube. The maximum bending limit is one full circle.
- The probe operating temperature must not exceed 85°C/185°F.

PRODUCT INTRODUCTION

Overview

The SVB403 Articulating Video Borescope is an important product recently launched for the global automotive aftermarket, specifically designed to detect difficult-to-access narrow and curved spaces such as automotive evaporators, combustion chambers, and catalytic sensor areas. This product features a 210° rotation in two directions and a detection function, along with a unique high-temperature alarm feature. It allows users to insert the slim probe into tight spaces and displays videos and images on the screen, meeting the diverse inspection needs of users.

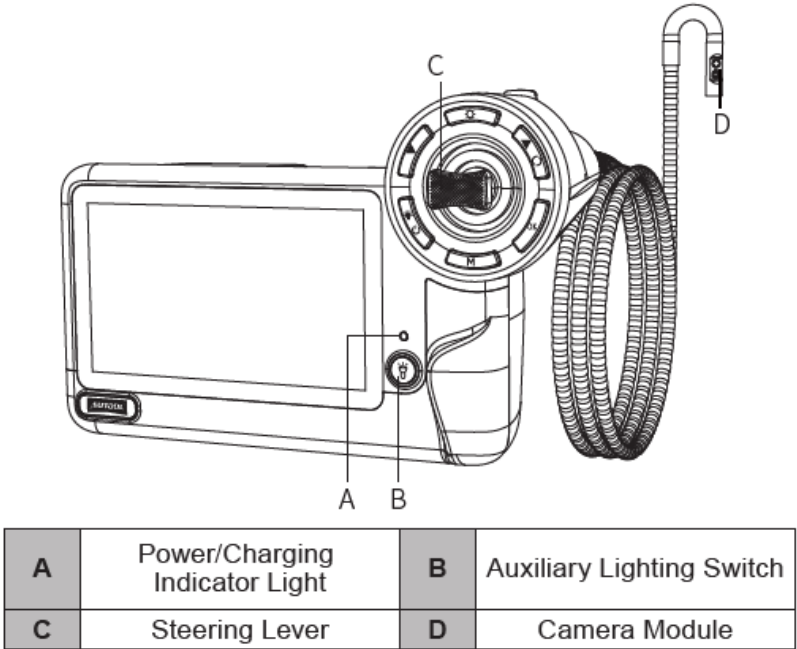
Operating environment and technical specifications

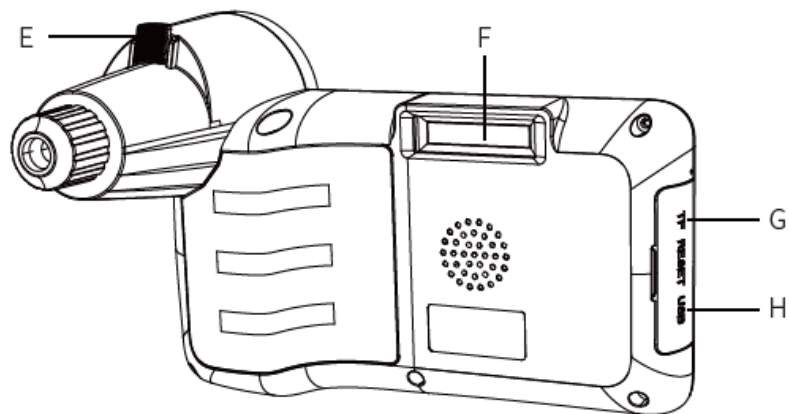
Camera Diameter	Dual-lens 6.5mm
Pixel	Front lens 1280*720; Side lens 1280*720
Screen Size	4.3 inches
Language	8 languages
Depth of Field	Front lens 25-100mm; Side lens 15-60mm
Field of View	70°
Manual Brightness Adjustment	Supports three-level adjustment
Power Supply	5V
Usage Duration	180 minutes
Battery Capacity	2000 mAh
Camera Light Source	6 LEDs for main view / 1 LED for side view
Waterproof Rating	IP67
Flexible Tube Material	Wear-resistant metal flexible tube
Flexible Tube Length	1 m

High-Temperature Protection	High-temperature intelligent protection, device automatically shuts down
Steering	Two directions
Steering Angle	Maximum 210°
Bending Radius	35 mm

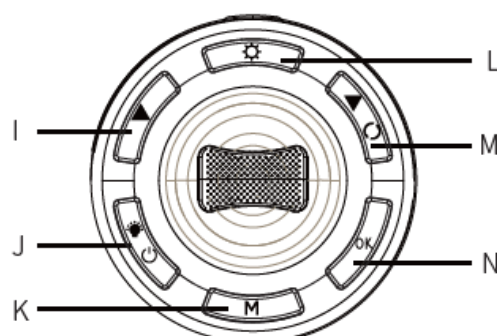
PRODUCT STRUCTURE

Structural diagram





E	Photo/Video Key	F	Auxiliary Light
G	TF Card	H	Charging Port



I	Up/Zoom In Button	J	Power/Light Adjustment Key
K	Album Preview/ Lens Switch Button	L	Settings/Back Button
M	Down/Image Rotation Button	N	OK Key

OPERATING INSTRUCTIONS

Operation guidelines

- **Power On/Off:**

Press and hold the Power/Light Adjustment Key (J) for two seconds. The blue indicator light on the display screen will turn on, indicating that the device has powered on. Press and hold the Power/Light Adjustment Key (J) for two seconds again to turn off the device.

- **Light Adjustment:**

After powering on, press the Power/Light Adjustment Key (J) to adjust the light. The brightness can be set to three levels, and the default brightness when powered on is the highest.

- **Photo/Video Recording:**

After powering on, press the Photo/Video Key (E) to take a photo. Press and hold it for

two seconds to start video recording.

- **Image Playback:**

After powering on, press the M Key (K) to access the image playback function. Use the Up Key (I) and the Down/Back Key (M) to find the desired image or video. Press the OK Key (N) to play the video.

- **Time/Date:**

After powering on, press the Settings/Back Button (L) twice to switch to the settings menu. Scroll down to select Date/Time, and use the Up/Zoom In Button (I) and Down/Image Rotation Button (M) to adjust to the desired time (confirm the selected time by pressing the OK Button (N)).

- **Date Stamp:**

The date stamp is enabled by default. When turned on, the date and time will automatically appear in the bottom right corner of the photos and videos you capture.

- **Recording and Sound:**

The device has built-in recording and speakers. It will automatically record audio when recording videos, and audio will be available when playing back the recorded videos.

- **Charging:**

Use a 5V adapter or power bank to connect via the Type-C USB cable for charging. The charging voltage and current are 5V/1A. Using a higher voltage may damage the device.

Please note: This device does not support fast charging.

TIPS AND ASSISTANCE

Fault reporting

Fault phenomenon	Cause analysis	Troubleshooting solutions
Unable to power on	Battery is discharged	Charge the borescope
Automatic shutdown	Insufficient battery power or automatic shutdown is set	Charge the borescope and disable the automatic shutdown setting

Memory card error message	Memory card is not properly installed	Reinstall the memory card
Unable to charge	Charging port is dirty or charging cable is damaged	Replace the charging cable
Blurry image	Lens is dirty	Use a cleaning cloth to clean the lens
Memory card recording failure	Insufficient memory card capacity	Replace the memory card or clear files

MAINTENANCE SERVICE

Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.

To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully

- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
- Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
- Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable.
- Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time.
- Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact

with corrosive liquids.

- When not in use, please store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places.

WARRANTY

From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

These conditions below shall not be in warranty range

The product is not purchased through official or authorized channels.

The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

Disclaimer

All information, illustrations, and specifications contained in this manual, AUTOOL reserves the right to modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer

or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

RETURN & EXCHANGE SERVICE

Return & Exchange

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

China	400-032-0988
Oversea Zone	+86 0755 23304822
E-mail	aftersale@autooltech.com
Facebook	https://www.facebook.com/autool.vip
YouTube	https://www.youtube.com/c/autooltech

EU DECLARATION OF CONFORMITY

We as the manufacturer declare that the designated product: Articulating Borescope (SVB403)

Complies with the requirements of the:

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU + 2015/863 + 2017/2102

Applied Standards:

EN 55032:2015+A1:2020+A11:2020, EN 55035:2017+A11:2020, EN IEC 61000-3-2:2019 + A1:2021, EN 61000-3-3:2013 + A1:2019 + A2:2021 IEC 62321-3-1-2013, IEC 62321-5-2013, IEC 62321-5-2013, IEC 62321-4-2013+A1:2017, IEC 62321-7-2:2017, IEC 62321-7-1:2015, IEC 62321-6:2015, IEC 62321-8:2017

Certificate No.: HS202403075346E, HS202403075341E

Test Report No.: HS202403075346-1ER, HS202403075341-1ER

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	ADRESS: 2 Rue Coysevox Bureau 3, Lyon, France E-Mail: xdh.tech@outlook.com CONTACT PERSON: Dinghao Xu e

FAQ


- **Q: How do I adjust the lighting on the borescope?**

A: The lighting intensity can typically be adjusted using controls on the device. Refer to the user manual for specific instructions on adjusting the lighting settings.



- **Q: Can I use the borescope in wet or damp environments?**

A: It is important to check the operating environment and technical specifications to determine if the borescope is suitable for use in wet or damp conditions. Exposing the device to excessive moisture can damage it.

Documents / Resources

	AUTOOL SVB403 Articulating Video Borescope [pdf] User Manual SVB403 Articulating Video Borescope, SVB403, Articulating Video Borescope, Video Borescope, Borescope
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References

-  [Tool Tech](#)
-  [autooltech.com](#)
- [User Manual](#)

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🔍 Articulating Video Borescope, AUTOOL, Borescope, SVB403, SVB403 Articulating Video Borescope, Video Borescope

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