

USER GUIDE

Self-Exam Colposcope

Model- BS2



Please read the handbook carefully and keep it properly.

Self-exam Colposcope

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I. Attentions

1.1 Applicable users

This product is strictly used for women who had the experience of sexual intercourse, and for patients with gynaecological diseases to do vaginal examination (self-exam) only.

1.2 Notes for usage

- RTI sufferers should consult professional medical advice before usage.
- Females who are in menstruation, pregnancy, postoperative recovery or who are virgins with intact hymen are prohibited to use this product.
- This product is only used for vaginal examination and has no treatment function.
- Do not use this product on any other parts of your body.
- Do not share this product in case of cross-infection.
- Do not use this product together with any other medical electronic devices.

- The Disposable Vaginal Speculum is sterilized by epoxy ethane and valid for 2 years; it should be disposed after usage and not for re-used.
- Do not use the Disposable Vaginal Speculum when its package is damaged or incomplete.
- Choose the Disposable Vaginal Speculum of your own size (consult the professional advice or try size S for first use).
- Please purchase the Disposable Vaginal Speculum manufactured by Wuxi Biomedical Technology Co., Ltd. through licensed pharmacies, hospitals or service call 86-0510-83572789(China).

- The AAA battery (<3) should be installed correctly according to anode-cathode (If common batteries are used as substitutes, the device may not work normally).
- This product should be kept in a well ventilated place.

1.3 Checking before using

(1) Body

- a. The cleaning cover is completely covered without loosening or damage.
- b. The Focus Lever works normally (lens moves for observation).
- c. Memory of the chip is adequate.
- d. The batteries are good and installed correctly.

(2) The Disposable Vaginal Speculum

- a. The package is complete and non-damaged.
- b. The surfaces of both blades are smooth and non-attached.
- c. No broken or cracked evidences.
- d. The product is valid before the expiry date.

(3) Television (or Monitor)

Make sure it has AV Input.

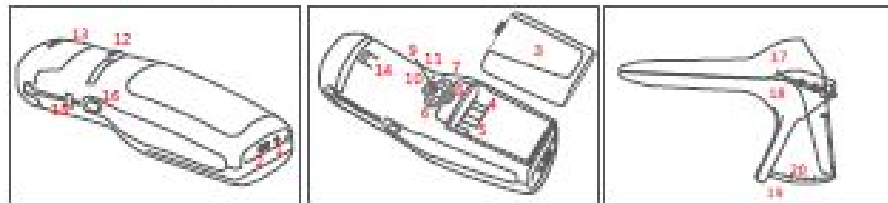
II. Product Information

2.1 Composition of the Product

This product is composed of a camera and a disposable vaginal speculum. The two parts are connected through a special joint structure.



2.2 Component parts



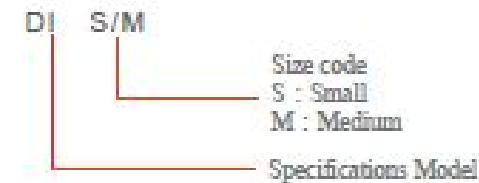
Serial No	Components	Functions
1	AV Output	Video Output
2	USB port	Digital signal output
3	Battery Case Cover	/
4	T-Flash memory card slot	Storing T-Flash memory card
5	T-Flash memory card holder	
6	LEFT key	See component description for details
7	RIGHT key	
8	ZOOM/DEL key	
9	SHOOT key	
10	POWER key (orange)	
11	Battery indicator	
12	Focus Lever	Adjust the image sharpness
13	Cleaning cover	Keep the front of lens clean
14	Slot Point 1 of the Disposable vaginal speculum	Fix the disposable vaginal speculum
15	Slot Point 2 of the Disposable vaginal speculum	
16	CLITCH key	Press it down for removal
17	Movable blade	/
18	Fixed blade	/
19	Toothed structure	Fix the opening range of the blades
20	Slot	

2.3 Description of Product Identification

1 Body

- Product model: BS2
- Security type: BF

2 The Disposable Vaginal Speculum



III. Product Specifications

3.1 The Disposable Vaginal Speculum

parameters	size	S	M	Notes
		Outline	Length (movable blade)	
Dimension	Width (of the blade)	20±1	27±1	
Height of Front Outside Mouth	Minimum	31±5	40±5	Type M for women who have procreated
	Maximum	60±5	67±5	

3.2 Body

Power Supply	DC 4.5V, AAA battery ($\times 3$)	
Output Signal	PAL system, AV (video) signal	
Normal Working Conditions	temperature	: 15°C—30°C
	humidity	: $\leq 90\%RH$
	pressure	: 700hPa—1060hPa
Storage and Transport Conditions	temperature	: -20°C ~ +45 °C
	humidity	: 90%RH
	pressure	: 700hPa—1060hPa
Weight	about 50g (batteries non-included)	
Dimensions (L \times W \times H mm)	126 \times 40 \times 34	
Safety Class	Internal power source, BF type	
Technical Index	effective range of observation	70mm ~ 100mm
	angle of observatio	20°, permit error -10%, no upper limit
	Resolution	2.5 L/3mm, permit error -10%, no upper limit

IV. Introduction of Accessories

4.1 Items in the package include

- Body
- AV video cable
- USB data cable
- AAA battery ($\times 3$)
- User guide (with the warranty card)
- Product certification
- One size S and one size M of the disposable vaginal speculum

V. Components Description

5.1 POWER key (orange)

Press down POWER key and hold for 2 seconds, and then a buzzer indicates the Body is turned on/off (after the machine is turned on, the Body will automatically enter AV mode).



5.2 SHOOT key

- In AV mode, pressing this key saves images and pressing this key again resumes dynamic observation.
- In PHOTO mode, pressing this key enters AV mode.

5.3 LEFT/RIGHT key

In AV mode, pressing LEFT/RIGHT key browses photos taken.

5.4 ZOOM/DEL key

- (1) In AV mode, pressing this key once enlarges current photo 1.5 times and pressing this key again restores original size.
- (2) In PHOTO mode
 - Pressing this key once shows "Yes" and "No" for deleting current photo or not. Select "Yes" or "No" by LEFT/RIGHT key and confirm the operation by SHOOT key.
 - Pressing this key twice in succession shows "Yes" and "No" for deleting all photos or not. Select "Yes" or "No" by LEFT/RIGHT key and confirm the operation by SHOOT key.

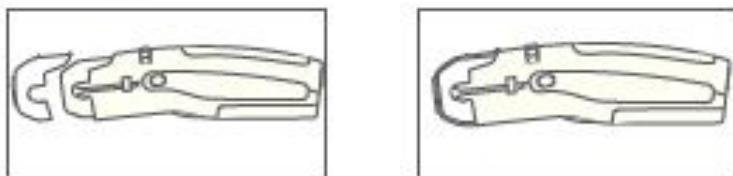
5.5 USB cable

Being connected to the computer through the USB cable, the FA2 enters U-DISK mode automatically. After the computer identifies the U-disk, you can browse the photos saved (Note: The operating system of the computer shall be Windows 2000 or above).

VI. Installation and Dismantlement

6.1 Cleaning Cover

Installation



Dismantlement



Hold cleaning cover and gently inclined to push with right-hand thumb.

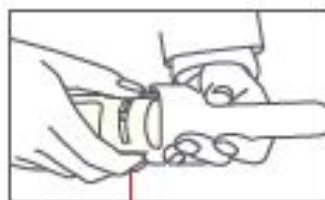
6.2 The Disposable Vaginal Speculum

Installation



Make sure the **Stuck Point 2** is locked.

Dismantlement



Press the **CLUTCH** key, and take the **Body** apart with the disposable vaginal speculum.

6.3 T-Flash memory card(optional)

Installation



1 Slide the T-Flash holder backward.



2 Lift the T-Flash holder upward.



3 Put the T-Flash into its slot and ensure that the golden contact zone of the card faces down.



4 Close the T-Flash holder.



5 Slide the T-Flash holder forward to lock it in place.

6.4 Installation of the batteries

Please note that the batteries should be installed with proper positive and negative terminal indicated by the battery case.

VII. Cleaning, Maintaining and Storage

7-1 Cleaning cover

- (1) Sterilize the cleaning cover with 75% medical alcohols, or wash it with soap solution and then dry it before usage.
- (2) Wash it with soap solution thoroughly and dry after usage.

7-2 Body

- (1) Wipe it with 75% medical alcohols or sterilization before and after usage (except the lens).
- (2) Clean it with blowpipe or cotton bud if any dust found.
- (3) Store it in a dry and clean environment, avoiding excessive heat or direct sunshine, and do not let it fall off.
- (4) No disassembly by users.
- (5) Please remove the batteries if left unused.

7-3 The Disposable Vaginal Speculum

Ensure the product used before the expiry date.

VIII. Usage

- 8-1 Sterilize cleaning cover and outer covering of the Body; inspect the lens clean or not;
- 8-2 Use the video cable to connect the body with TV.
- 8-3 Turn on the TV with the video input mode.
- 8-4 Turn on the Body, make sure it works properly and images shown on TV.
- 8-5 Open the package of the disposable vaginal speculum from the "open" mark (Note: don't take out the disposable vaginal speculum).
- 8-6 Connect back of The Disposable Vaginal Speculum with the Body.

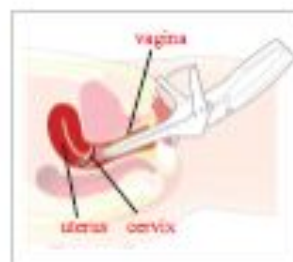
8-7 Wash hands with soap.

8-8 Clean the vulva.

8-9 Take off the package and Lubricate blades of the disposable piece for ready.

8-10 Choose a stable place such as a couch or a bed, which is about 1.5~2.5 meters away from TV (or video monitor) to perform self exam. Bend your knees, with your feet wide apart and lie back on the pillow (about 30° angle). Relax yourself as possible as you can. Hold the product in one hand with the blades closed. Insert the speculum gently into your vagina with the blades at a tilt 45° angle, experiment to find the most comfortable position (try again if it hurts), open the outer lips of your vagina with another hand. (please refer to picture 1)

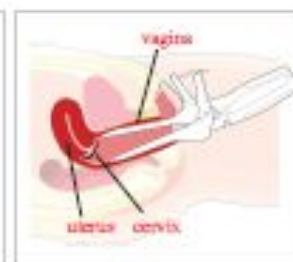
Do not touch the disposable vaginal speculum with your hands directly.



Picture 1
Insert the product into your vagina

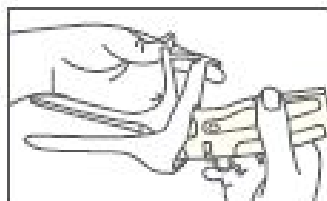


Picture 2
Search for the cervix's location

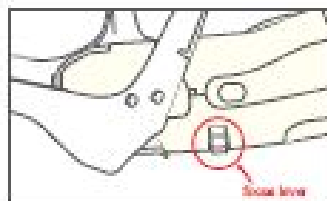


Picture 3
Examination after location

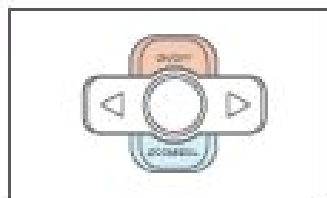
8-11 Once the Product is inserted, rotate the blades horizontally. Hold the toothed structure till the Body is locked in place. Open the blades and experiment to find the cervix by monitoring the images on TV (Please refer to picture 2). Keep pushing down the outside section of the blades until you see the whole cervix (usually on grade 3), and stop pushing if you have strong sense of pain.



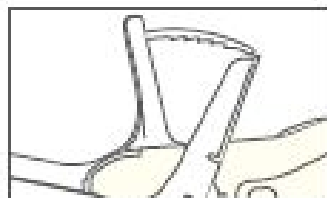
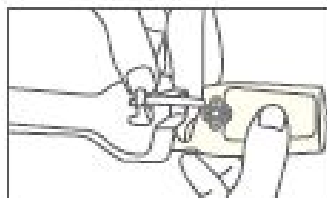
8-12 Adjust the position and direction of the blades slowly and turn the focus lever to adjust image sharpness. (Please refer to picture 3)



8-13 Please refer to "V.Components Description" for the usage of the buttons in detail.



8-14 After examining, press the toothed structure gently to close the blades, then turn off the power and remove the disposable vaginal speculum.



IX. Possible Problems and Causes

9-1 Bleeding or discomfort

- (1) For the users suffering from RTI, bleeding or discomfort may occur when inserting the disposable vaginal speculum or folding/unfolding blades of the speculum.
- (2) Missuse or nervous may incur slight pain or discomfort during or after self-exam.
- (3) Use of non-standard disposable vaginal speculum may incur pain or discomfort.

9-2 Physical injury

- (1) Failure to operate under instructions may cause physical injury.
- (2) Rude operation may cause physical injury.
- (3) Over-sized disposable vaginal speculum may cause physical injury.

9-3 Unclear or incomplete image

- (1) Cervical image may be captured inaccurately or incompletely due to cervix asymmetry.
- (2) Cervical image may be captured inaccurately or incompletely due to loose or deep vagina or overweight.

9-4 Unknown diseases

Detection of unknown physical abnormalities may result in worry or shock.

X. Troubleshooting

Malfunction	Tips
Power indicator LED is amber	Make sure batteries are good. Check the installation of batteries.
No images	Check Video cable plug-in location. Check Video cable for damage or broken. Check lens for any contamination.
Unclear image	Make sure Video cable is completely plugged in. Check Video cable for damage or broken. Check front lens for any contamination. Adjust lens focus.
Image save failure	SHOOT key may not be used appropriately. The storage space of NANDflash or T-Flash may be fully occupied, or the TF card may be installed incorrectly. (This product supports a T-Flash up to 2G).
PC connection failure	USB data cable may be improperly plugged in or damaged and broken.
Others	Contact a designated service station or call at the service hotline 86-0310-85572789.

XI. Prevention and Solution

- 11-1 Learn more knowledge about gynecological diseases.
- 11-2 Familiar with the product function and master the proper methods of self-checking.
- 11-3 Choose a suitable size of disposable vaginal speculum. Start from Size S for trial.
- 11-4 Use a water-soluble jelly to lubricate the blade and make insertion smoother.
- 11-5 Urination after self-exam, and anti-inflammatory drugs may needed.
- 11-6 The self-exam is only for better observation and detection, if any abnormality noticed, go for medical diagnosis and treatment as soon as possible.

XII. Warranty Policy

Warranty period: one year since the date of purchase

If it is proven that the product, while used in accordance with the instructions, has defects and / or errors (within the warranty period), the user is entitled to have it repaired free of charge. Please present the original Warranty Card together with original purchase invoice to the authorized service centers when warranty service is rendered.

The following items are not covered by this warranty.

- 12-1 Improper operation/maintenance or any damage to the product resulting from customization or modification.
- 12-2 The product is damaged from neglect e.g. fall from any high surface.
- 12-3 Damages due to battery leakage corrosion.
- 12-4 Damages caused by accident, fire, floods or misuse.
- 12-5 Damages or malfunctions not in relating to product quality.
- 12-6 warranty card is not stamped for registration or unauthorised alteration.