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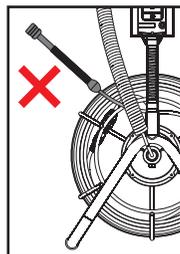
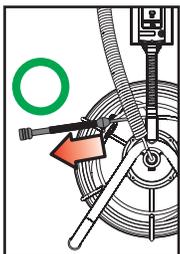


**ISV-VP280  
PIPE ENDSCOPE  
OPERATION MANUAL**

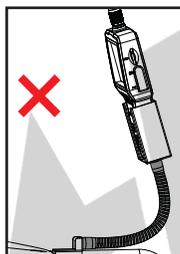
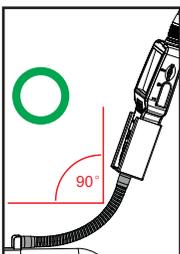
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**Attention**

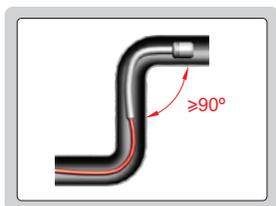
- 1 Don't use this product in a fuel tank or other dangerous environment such as a gasoline or alcohol storage tank.
- 2 Don't use this system for human or other any other biological inspection. This is designed for industrial use only.
- 3 Take out the probe cable horizontally from lens stopper.



- 4 When you put main unit on holder, you can adjust the holder to suitable angle to inspect but don't bend it over 90°.



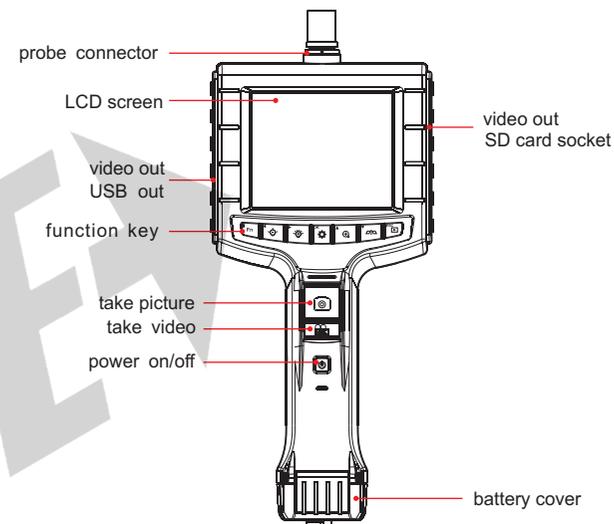
- 5 The swerve angle must be larger than 90° when using in the tube.



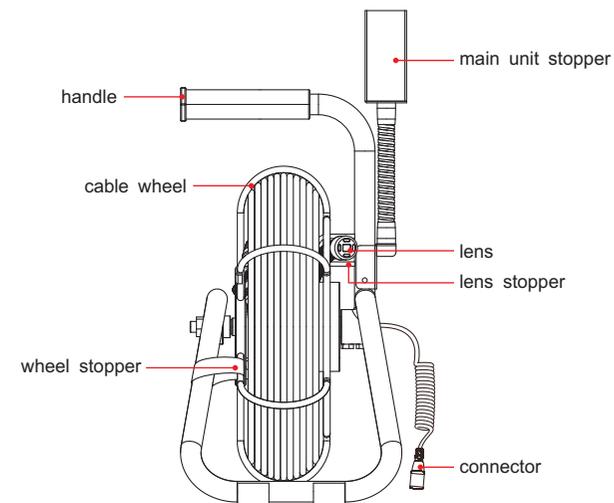
- 6 Don't remove the SD card during capturing photos or videos. This can cause a loss of the files or damage the card.

**Structure**

1 Main unit:



2 Probe cable:



**Installation**

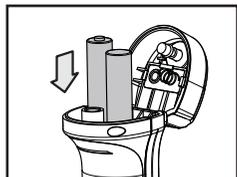
1 Install the batteries:



a. loose the screw



b. open the cover

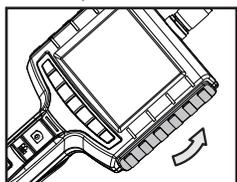


c. put 4 pcs AA batteries

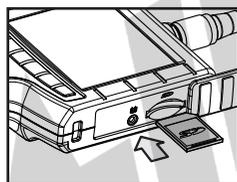


d. close the cover and tight up the screw

2 Install the SD card:



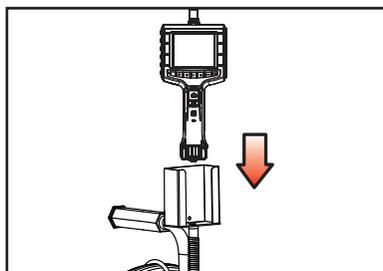
a. open the rubber sheet



b. insert the SD card

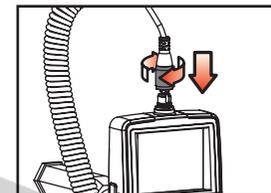
3 Install the main unit:

Place the main unit onto the holder as the following picture.



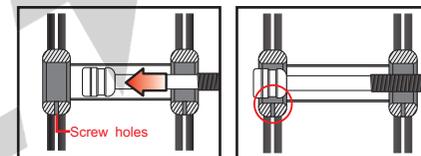
4 Install the probe cable:

Insert the connector into the main unit accordingly to the direction of the dot and tighten the screw nut.

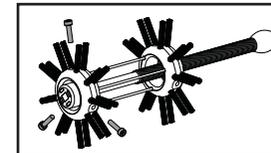


5 Install the brush(optional):

◆ Move the mounting ring to align with the holes.

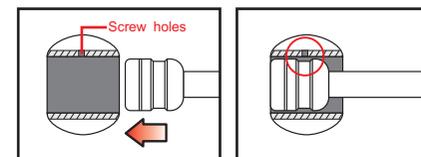


◆ Lock the screws.

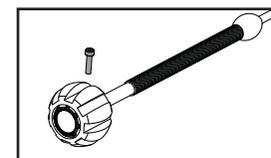


6 Install the centering ring(optional):

◆ Move the mounting ring to align with the holes.



◆ Lock the screws.



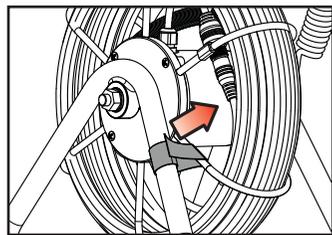
### Function Key

Key	Preview	Browse	Menu
<b>Fn</b>	Enable special function	Delete file	
	Increase brightness		Right
	Decrease brightness		Left
<b>OK</b>	Enter "Menu" mode	Play video	Confirm
	Zoom in	Up	Up
	Mirror	Down	Down
<b>ESC</b>	Enter "browse" mode	Return to the "preview" mode	Return to the "preview" mode
	Take picture		
	Take video		

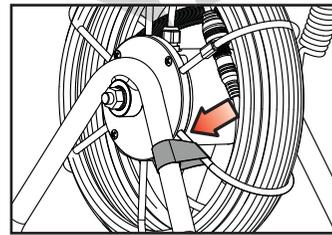
### Usage Of Probe Cable

#### 1 Take cable out:

- ◆ Make sure the wheel stopper is loosened before use then take out the cable horizontally.
- ◆ Please fix the wheel stopper when you get the required length.



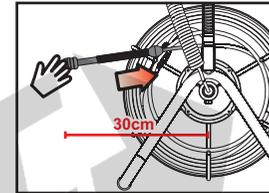
loosened



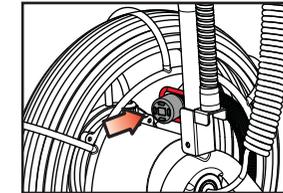
fixed

#### 2 retrieve the cable:

- ◆ Loosen the wheel stopper.
- ◆ Turn the wheel to retrieve the cable. In the 30cm distance from lens stopper, push the cable backward and horizontally to the cable wheel.
- ◆ Please fix the wheel stopper after retrieve the cable.

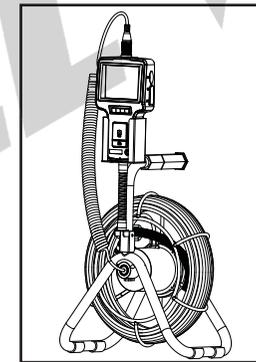


pushing horizontally

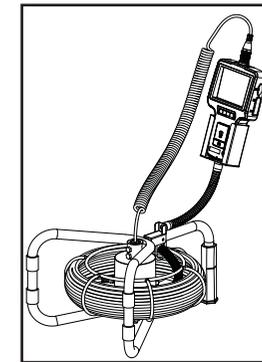


fix the lens

#### 3 Working mode:



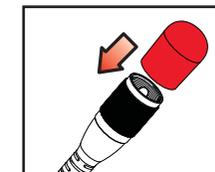
vertical mode



horizontal mode

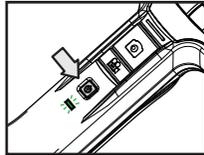
#### 4 Disassemble and store:

- ◆ Disconnect the main unit and probe cable, then take main unit out of the holder.
- ◆ Cover the protector cap on the cable connector. Put the product into box and properly kept.

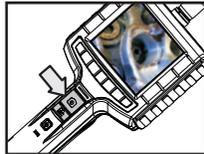


## Usage Of Main Unit

- 1 Press the button for 3~5 seconds until the image is displayed on the screen.



- 2 Make the probe close to the surface and adjust the distance and brightness until the image quality is best.
- 3 Press “take picture” key during preview mode to take the photo. Press “take video” key during preview mode to start and press again to finish.



- 4 Mirror: PRESS  $\nabla$  key to mirror the image and press again to back to the original image.
- 5 Zoom in: Press  $\odot$  to magnify the image 2 times, and press it again to back to the original image.
- 6 Browse the files: Press “ESC” key to enter the browse mode. Use “Up” and “Down” keys to browse the files. Press “OK” key to play the video and “ESC” key to back.
- 7 Delete the files: Press “Fn” key to enter delete interface in browse mode, press “Fn” key again to delete and “ESC” key to back.
- 8 Video out: Connect the main unit and external monitor by using video output cable.

## Menu Setting

Press “OK” or “Fn” key to enter Menu interface in preview mode, use “Up” and “Down” key to select options.

- 1 Album: Press “OK” key to enter album list and use “Up” and “Down” key to select picture or video. Then press “OK” to view picture or play video. Press “ESC” key to back.



- 2 Language: Change the language of operation interface. Use “Up” and “Down” key to select language and “OK” to confirm.
- 3 Date/Time: Use “Up”, “Down”, “Left” and “Right” key to select and set, press “OK” key to confirm.
- 4 TV System: Set video format, NTSC or PAL.
- 5 SD Card Status: Use this instruction to view and manage SD card status.
- 6 Setting: Set auto power off and video time.
- 7  $\odot$  Brightness: User may use this function to setting image brightness.
- 8  $\odot$  Contrast: User may use this function to setting image contrast.
- 9 **BW** Black white mode: Select this option and press “OK” key to confirm. Do this operation again to back to color mode.

## Maintenance

- 1 Please fit on the probe head cover and put the product into box if it is not used.
- 2 Avoid direct exposure to sunlight for long period of time, store the product in a cool, dry and well-ventilated pace.
- 3 Please use the cleaning kit (standard delivery) to clean the lens. Don't use any corrosive liquid, such as alcohol.