

Video Borescope User Manual



Please read this manual before switching the unit on. Important safety information inside.

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Video Borescope User Manual

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1.Safety Tips

Before using the instrument, read all safety information and specification of the pinhole video carefully.

1-1.Application of Places

- Detect the inside parts of the machinery which is unvisable to check whether he machinery is working normally.(cars, heavy machinery)
- Put the gooseneck with carema into the underwater to check the objects in the water. (Drainage works)
- Used in some special monitor places, backsight of the cars.
- Such as used for wild advendure.

1-2. Maintenance and cleaning

- Repair or maintenance should be carried out by professionals, not only to carry out manual.
- Please clean the camera after using it, don't use detergents to clean this instrument.

1-3. Safety Sybomls

Satisfied with European CE safety standards.

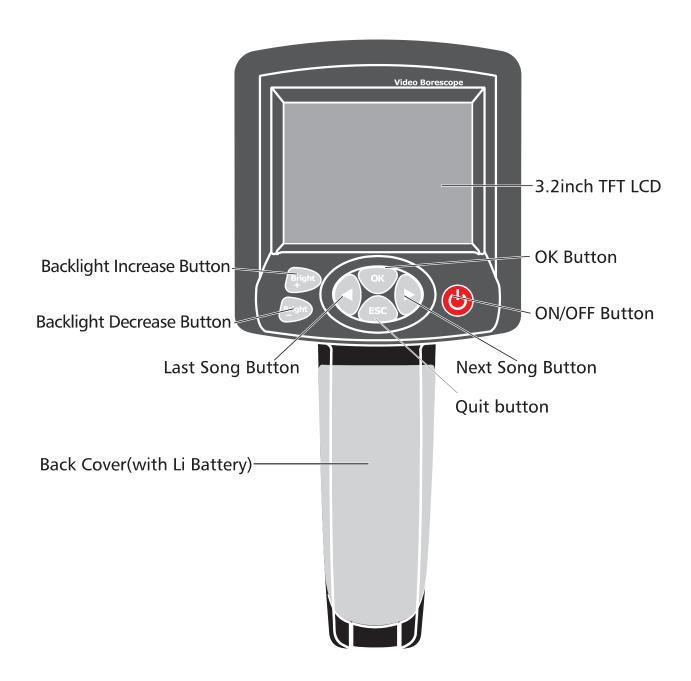
2. Function Description

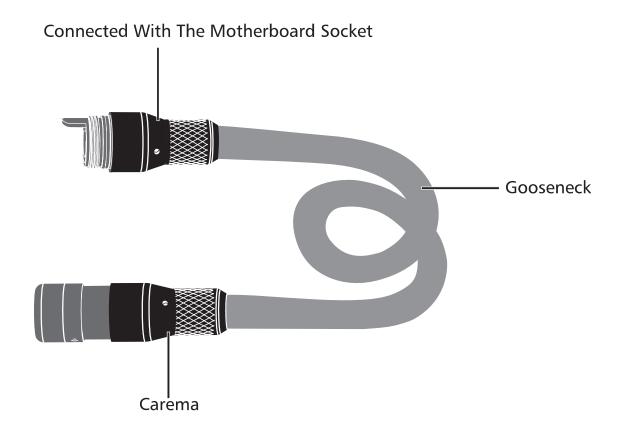
- check the photo and video at the scene
- Support rotate images(under the camera mode, press last /next song to rorate the angle
- photo(support the images display the current time and date)
- Support audio and video recording
- time and date
- support SD card(8GB)
- support FLASH(8GB)
- Built-in 128M Flash Capacity
- support TV-OUT
- Support for audio and video player(MP4, AVI, 3GP FORMAT)
- support for scaning photos(JPG, BMP, JPEG)
- support English, French, German, Spanish
- Support operation in the dark environment(with four light LED)
- support USB supply(Li battery)

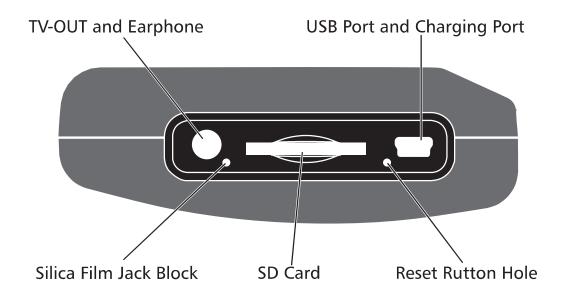
3. Specification

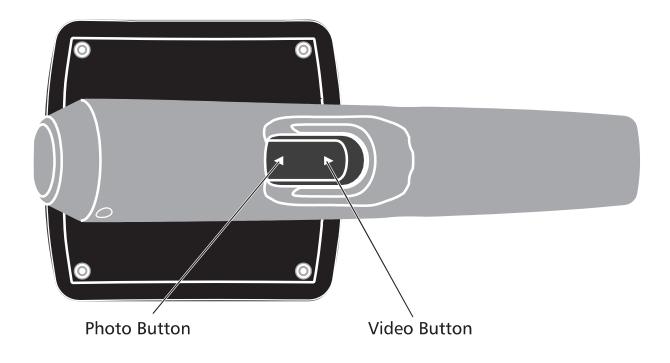
Photosensitive Devices	1/4 inch CMOS	
Sensor Pixel	640*480	
Maxmimum Resolution	320*240	
The Maximum Number of Frames (FPS)	30FPS/S	
The Median Color (bit)	24	
Focusing Method	Manual	
Goosenneck Length	1M	
Camera Diameter	17mm	
Could Be Played Files	MPEG4/3GP/AVI/ASF	
Photo Format Supported	JPEG	
Camera Video Format	3GP	
Picture Format From the Carema	JPG(320*240)	
Viewing Direction	Viewing Angle 0 and 180	
Support SD card	MAX 8GB	
Support FLASH	MAX 8GB	
Working Voltage	Li battery 3.7V/2000mA	
Video Working Current	MAX 595mA	
Video Play Current	230mA	
Static Current	MAX 20UA	
TV-OUT	PAL/NTSC system	
Operating Temprature	-10 to 60 Degree	
Storage Temprature	-20 to 70 Degree	
Storage Humidity	15% to 85%RH	
Testing Range	5cm to 15cm	
Data Output	USB Data Cable and SD Card	
Power Supply	3.7V, 2000mA/H battery(1860)	
Size(L,W,H):	240mm*100mm*160mm	
Accessories	User manual, 3.7V lithium	
	battery, package box, USB	
	cable, adaptor, video output	
	line	

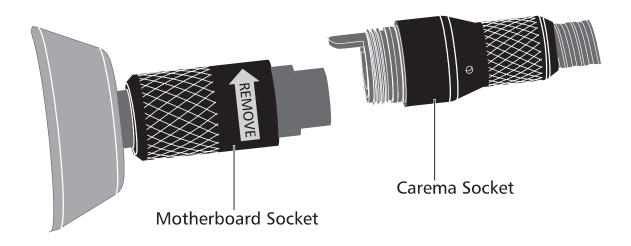
4. Name and Function









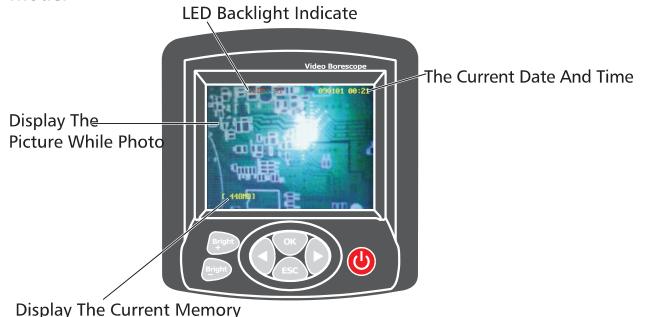


5.Operation Description

1. Operation Under Video Mode

1-1.Power ON/OFF

Hold the power button for three seconds enter into the following mode:



Hold on the power button for three seconds to colse the instrument.

1-2. Adjust The Brightness of CMOS

In the camera mode press the BRIGHT+ button for each short to increase backlight level until the brightest; BRIGHT- per short by a dim level then brighten and dark cycle. (10 for the brightest, the most dark for 0, 0 when the LED goes out)

1-3.Rotate Images

Under video mode, press last/next song to achieve 180-degree rotating and change the angle.

1-4.Photo

In camera mode, Press the "SNAP" button shortly to save the picture. (open the time/date, then the photo will display current time and date. photo Exprorer can browse the photos)

1-5.Video

Under video mode, Hold the RECORD button for three seconds enter into the video, on the left up side of the screen will display a video symbol.

On the left bottom display the changeable free memory. Then press "RECORD" button Hold on to save the video. (video could be played in the Video pler of the Exprorer)

2.System Set

2-1.Under the Video Mode Press "**OK**" button, then pop-up the following dialog box



Right-left to move the cursor to YES then press "OK" button to enter into the system setting, as follows:



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2-2.Up

- Turn to the last photo function while scaning the pictures
- Mode in the menu for a menu function upward.

2-3.Down

- Browse pictures for a picture of the function down.
- Mode in the menu for the next menu function.

2-4.Anguage

• language setting as followings:

Through the song, a selection of different languages, press "OK" button to save the system settings from the main interface. Press "ESC" button then quit the video mode.



2-5.Time Setting

Through the songs move the cursor to where you want to set up, press "SNAP" and "RECORD" to adjust the date and time. Press "K" button to save the system setting from the main interface or press "ESC" back up to video mode.



2-6.Automatic Shut Down Setting See the following figure



2-7.TV-OUT Output

Inserted in the headphone hole TV-OUT Video cable, the other side plugs into the TV VIDEO, the left channel, right channel (yellow is the VIDEO, the red and black and white are left and right channels) Select TV-OUT in the System Setup main menu, select the NTSC or PAL respectively in accordance with standard telveision, press "OK" button to enter, LCD turns black, then press the "Operation" button, television show the content.

Return to the LCD display, select TV-OUT output menu as the same then select LCD output return back to the LCD display operation.



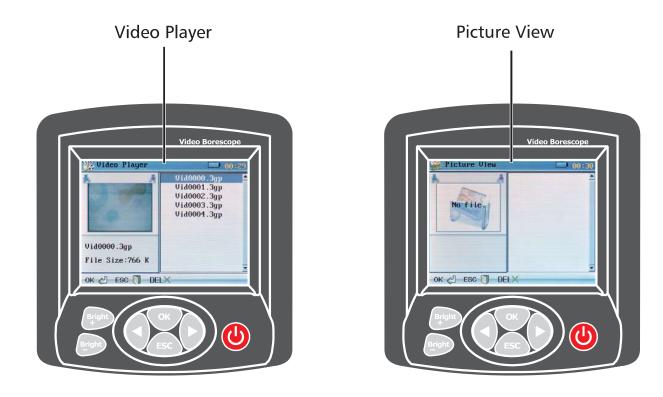
2-8. Memory Options

Press "SNAP" and "RECORD" to select the current memory, press "OK" button to confirm. To format, press the last song and next song then select "Format" then press OK button, pop up a dialog box asked, select "Yes" to complete format.



2-9.Picture And Video Explorer In the video, and Picture directory by "BRIGHT+" button to delete the current video and photo.





2-10.Setting

Press "SNAP" and "RECORD" button to increase or decrease the value to adjust the effect of the camera.



2-11. Saving Power Mode As Follows:

Set the correponding time under the saveing power mode, it will close the display screen while the main menu stay for the corresponding time, but the system of the meter is still working, press any button shortly it will display the main menu again, it won't effect under the video mode, browsing files mode. This function shorten the time of charging power without displaying the screen.



3.Exit Mode

Any setting in the system interface press **"ESC"** button return back to the video interface any setting in the system interface.

6.Notice

- •While curving the gooseneck the angel should be less than 90, or it won't come back.
- Taking out the batteries while it stops work for a long time, avoid the battery fluid leakage corrupting the instrument.
- Clear the camera before operation.
- •Use 3.7V Li battery.

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