

HD Under Vehicle Inspection System User Manual



7” Monitor Digital UVIS/UVSS

Thank you for purchasing this device. This handbook can lead you to use our product and the applied program of its adding.

NOTES

1. We try our best to make the content correct and complete, but it can't be certified that there is no any mistake and omit of the introduction.
2. Our company is only responsible for maintaining and repairing the problem of itself existing. We aren't responsible for personal data deleted and lost caused by wrong operation, product repair or other case. We are also not responsible for any other indirect loss caused by this.
3. Any modification of software, hardware, introduction of this product will not be notified separately, and our company owns the final explanation rights.

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Notes

Dear customers, thank you for choosing our device. We really hope our product can bring happiness to you. Please read the following instructions carefully before using:

- Forbid to use it in high temperature, high humidity environment.
- Please inserting or pulling out the TF card after monitor is powered off. If under working state, the huge current will bring unpredictable damage to the machine.
- Put it in the place where the children are not able to reach to avoid being fallen down or against sharp objects, which will bring serious damage to the machine.
- Please don't dismantle the device without authorization. If any query, please contact with the distributor or our company.
- Please don't change or poke the battery. If put the battery into fire, it will explode and hurt people.
- Please don't use it when driving or doing the work, which needs your high attention.
- We suggest customer to copy the data in case any loss caused by unstable power supply. Otherwise our company will not be responsible for any damage.
- When inserting TF card, please make sure the inserting direction is correct. Otherwise it will damage the card slot, which users need to bear it by themselves.
- DO NOT use this product to violate others' privacy. Monitoring others' activities without consent is illegal and this product is not designed and manufactured for such purpose;
- DO NOT use this product for any illegal activities. We shall not be responsible for any consequences of illegal acts committed by the user.

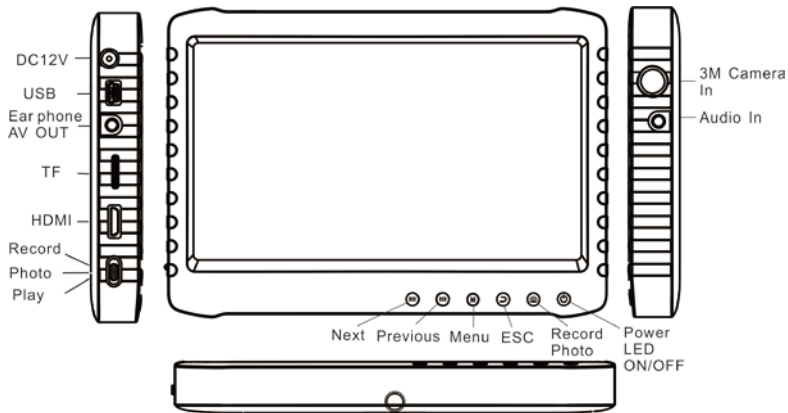
Basic Information

- **Camera:** 2 sets full HD 1080P cameras
- **Night vision:** 6 pcs Led(cam1)/16 pcs Led(cam2)
- **Camera resolution:** 5.0 MP 3200*1800 pixel
- **Telescopic Pole:** 2M
- **Metal monitor bracket:** adjustable
- **Monitor:** 7-inch HD screen with sun visor
- **HD Video Output Interference:** FPD-LinkIII
- **Video Storage Pixels:** HDMI: 1920* 1080
- **Video Compression Format:** H.264
- **Photo Format:** JPG 5.0Mega 3200 (H) ×1800 (V) .
- **Battery:** Built-in 5000mAh high capacity Li-battery.
- **Working Time:** 8 hours
- **Working Voltage:** 5-24V
- **Storage:** Supports up to 64GB TF card.
- **Language:** Supports multi-language.
- **Supports Power-saving Mode:** automatic shutdown, automatic off-screen.
- **Automatic upgrade:** Supports system automatic upgrade.
- **Video Output:** HDMI, AV-OUT
- **Aluminum Alloy case :** Fully preservation

Device Structure



Buttons & Interface



Tips for symbols



Recorder



Photo



Circular
Recorder



SD Card



LED



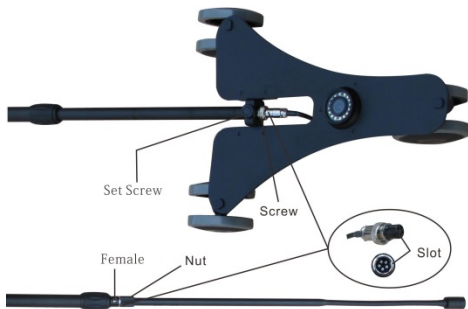
Battery

Installation of Cameras

1st camera: Insert the front end of the telescopic pole into connecting port on the wheel tray. Fasten the set screw.

Connect the five core aviation plug of camera to the telescopic pole then fasten the screw.

2nd camera: Insert the flexible pole camera's connector to female head, fasten the nut.



Stretch & Retract Telescopic Pole

Stretch the cable, anti-clockwise loosen the loose collars one by one to stretch the pole. Then clockwise fasten the loose collars.

Retract the pole:

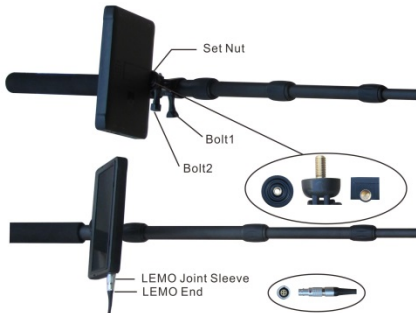
Anti-clockwise loosen the loose collars one by one, then pull out the cable in end of the pole to retract the pole. Clockwise fasten the loose collars.



Monitor Installation

Aim the nut opening on monitor bottom at the screw on pole, and fasten it. Fix the direction & angle by adjusting bolt 1 &2.

Insert/pull out data line: Just catch the back-end of LEMO jacket and plug it into monitor female slot. When pull out, just catch the movable sleeve and pull it out.



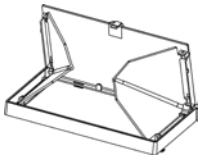
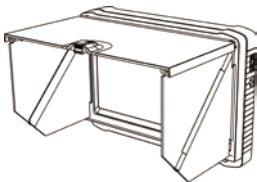
Loading & Unloading of Sunshade Cover

Loading & Unloading Methods of Sunshade Cover

The bottom of sunshade cover is provided with 4 buckle pins. Please aim them at the button holes on monitor and push gently, it's loaded in place.

If need to unload it, just gently push it to the opposite direction.

Open the sunshade cover: just push up the button in the middle of cover, it pop open.



How to Charge

1. Notice before operation

Battery capacity symbols:



Tips: The possible reason for being unable to power on monitor is battery running out. Please operate it after charging by AC adapter or PC.

2. How to charge



Charge 4~6 hours for fully charged. Unplug the charger until the battery status is full.

Notice:



- A. This charger is for this machine use only. Do not leave the charger in humid place. Unplug the charger and keep it well after charging. Do not repair, break down or remake the charger.
- B. For better performance, please charge the brand new machine for more than 6 but less than 10 hours for the first time. New battery will reach best performance after a few times full charge and discharge.
- C. If no need to use in a long time, it's recommended to charge the monitor every 2~3 months and then keep it after switch off.

Basic Operation


1. Power On/Off:


Press “” to power on, monitor is on working state; long time press “” again to power it off.


2. LED light turn on mode selection:

Turn on the monitor, LED is off. Press “” to turn on LED light, Press “” again to turn off the LED light.

3. Working mode switch (switcher located in the left corner):

When it switches to “”, monitor is in state of receiving/record;

When it switches to “”, monitor is in the state of take photo;

When it switches to “”, monitor is in the state of playback.


4. External Storage card








Only after storage card being plugged in, this monitor can record, photo. Screen will show symbol of TF card & its left capacity.

5. Working as a U-disk



Connect monitor to computer and power it on, it will work as a U-disk. Open the removable disk in the computer, you'll find the videos and photos in “RECORD” and “PHOTO” files under “DICM” directory.

Record & Photo

Power monitor on, and select working mode to “”, it is in recording/photo mode.


- 1. Record:** Under “” mode, press “”, monitor starts to record, and screen shows red “”. Press “” again to pause and store, press “” one more time, it continue to record. Press “” to end, it will save automatically and exit. If not press “”, the system will automatically save video in segments until storage card is full.




- 2. Photo:** Under “” mode, press “” once, screen flashes once, and get one picture.



Record & Photo

While if “Overwrite” is turn on, not press “

3. Mute/Sound: Under “

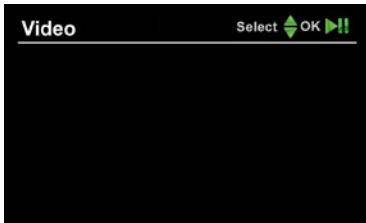
Note: Mute setting will not affect earphone.(Only the monitor has audio function)










Play Video/Photo

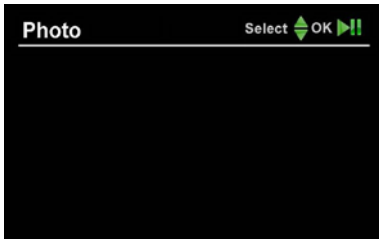
When working mode selected to “▶”, it’s in the mode of playing video & photo. Press “⏪” / “⏩” to select “Photo” or “Video”. Press “⏮” to exit and back to main menu. Press “Ⓜ” to get a delete dialogue.







1.Play Video: When select “Video”, press “⏮” to enter into date folder. Press “⏪” / “⏩” to select date, and press “⏮” to enter into time phased video files. Press “⏪” / “⏩” to select, and press “▶” to play video. Press “⏪” long time to fast forward; press “⏩” long time to rewind; press “⏮” to pause; press “▶” again to release pause; press “⏮” to exit.

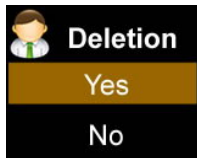


Play Video/Photo

2. Play Photos: Select “Photo”, and press “” to enter into photo files. Press “”/“” to select pictures, then press “” to view. Press “” to view next one; press “” to view previous one. Press “” to exit.



3. Delete Photo & Video: Under working mode, press “” / “” to select files. Press “” to get a dialogue. Press “”/“” to select “All/Current” / “Cancel” ., Press “” to confirm.

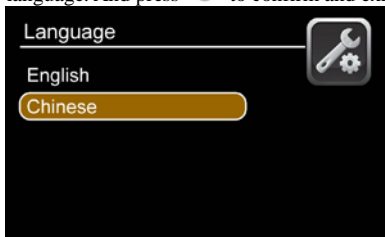


System Settings

Press “M” to enter system.

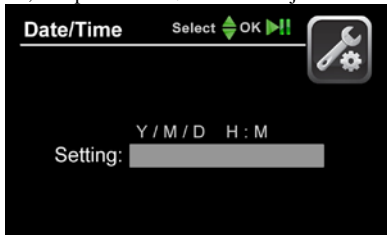


1. **Language:** Press “◀” / “▶” to select “Language”, and press “⏏” to enter. Press “◀” / “▶” to choose your language. And press “⏏” to confirm and exit.



System Settings

2. **Date Time:** Press “⏪” / “⏩” to select “Date Time”, and press “⏹” to enter. Press “⏹” again to move the cursor, and press “⏪” / “⏩” to adjust date & time. Press “⏪” to exit.



3. **Video Size:** Press “⏪” / “⏩” to select “Video Size” and press “⏹” to enter. Press “⏪” / “⏩” to select “848X480”/“1280X720”/“1920X1080”. Press “⏹” to confirm & exit.

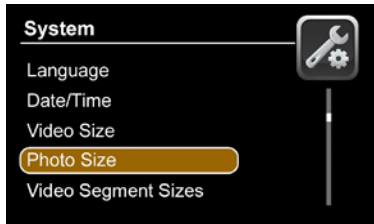


System Settings

4. **Photo Size:** Press “⏪” / “⏩” to select “Photo Size” and press “⏹” to enter. Press “⏪” / “⏩” to select “2M”/“3M”/“5M” Press “⏹” to confirm & exit.

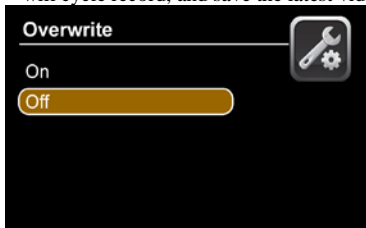


5. **Video Segment Sizes:** Press “⏪” / “⏩” to select “Video Segment Sizes” and press “⏹” to enter. Press “⏪” / “⏩” to select “10mins”/“30mins” Press “⏹” to confirm & exit.

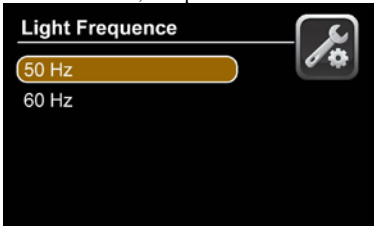


System Settings

6. **Overwrite:** Press “⏪” / “⏩” to select “Overwrite”, and press “⏏” to enter. Press “⏪” / “⏩” to select “Off”/“On”, and press “⏏” to confirm & exit. If “Overwrite” is on, monitor will cycle record, and save the latest video.

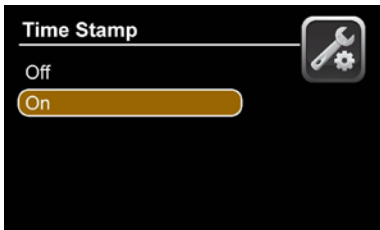


7. **Light Frequency:** Press “⏪” / “⏩” to select “Light Frequency” and press “⏏” to enter. Press “⏪” / “⏩” to select “50PS”/“60PS”, and press “⏏” to confirm & exit.

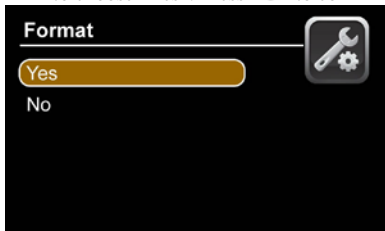


System Settings

8. **Time Stamp:** Press “⏮”/“⏭” to select “Time Stamp”, and press “⏏” to enter. Press “⏮” / “⏭” to select “Off”/ “On”, and press “⏏” to confirm & exit. If it’s on, video will be saved with synchronous time.

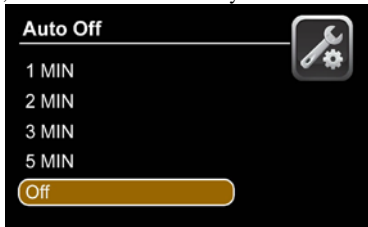


9. **Format:** Press “⏮” / “⏭” to select “Format”, and press “⏏” to enter. Press “⏮” / “⏭” to choose “Yes”. Press “⏏” to confirm & exit.

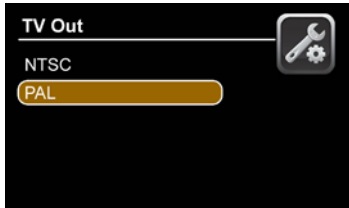


System Settings

10. **Power Save:** Press “⏪” / “⏩” to select “Power Save”, and press “⏏” to enter. Press “⏪” / “⏩” to select “Auto LCD Off” / “Auto Power Off” and press “⏏” to confirm & exit. If turn on “Auto Off”, monitor will automatically shut off when the set time is due.

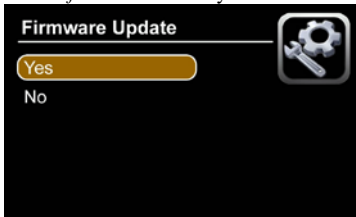


11. **TV Out:** Press “⏪” / “⏩” to choose “TV Out”, and press “⏏” to enter. Press “⏪” / “⏩” to choose “PAL/NTSC”, Press “⏏” to confirm video displayed on TV screen. Pull out AV cable, video will back to monitor screen.



System Settings

12. **Firmware Update:** Press “⏪”/“⏩” to select “Firmware Update”, and press “⏏” to enter. Press “⏪” / “⏩” to select “Yes”, and press “⏏” to start update. Please remember to save update file “*zburnT_C11.run.elf*” at root directory of TF card.

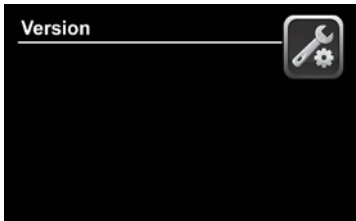


13. **Memory Info:** Press “⏪”/“⏩” to select “Memory Info”, and press “⏏” to view capacity of TF card. Press “⏪” to exit.

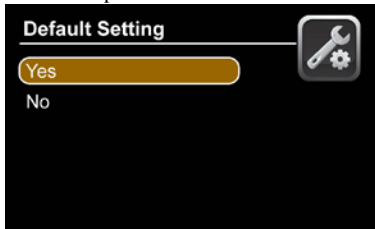


System Settings

14. **Version:** Press “⏪” / “⏩” to select “Version”, and press “⏏” to view version information. Press “⏪” to exit.



15. **Default Setup:** Press “⏪” / “⏩” to select “Default Setup”, and press “⏏” to enter. Press “⏪” / “⏩” to select “Yes” and press “⏏” to confirm. Press “⏪” to exit.



Trouble Shooting

Trouble Shooting:

- 1 It can't power on: Maybe no power, please recharge the monitor;
- 2 System halted: Press the RESET key to turn on player again;
- 3 It cannot play: Maybe the format of video file is not supported by this monitor, please convert it into the supported format.
- 4 The text is in messy code: Make sure the correct language is selected.
- 5 It can't upload / download files or can't find the disk in PC: Replace USB cable/USB port.
- 6 It cannot save file: TF card is not in monitor, please insert TF card; or TF card memory is full, please delete some files to release memory; or there is damaged area in memory, please format it.
- 7 If the telescopic pole got stuck, just please screw off the loose collar one by one to check which part is stuck, and then tidy the cable then screw it tight.

Specification

Wheels tray camera	Optical Element	1/2.5 CMOS Sensor SONY
	Optical Total Pixels	5.0 Mega : 3200 (H) ×1800 (V)
	CMOS Sensor Size	5.6mm (H) ×3.14mm (V)
	LED lamps	16 pcs LED lamps high light
	Sensitivity	0.08Lux/F1.2
	Lens & View angle	3.6mm F1.2 (H)120 °
	HD Video Output Interface	FPD-LinkIII
	Wheels on the tray	Omni-directional wheel
	Dimension & Weight	37 x 46mm, 35g(only camera)
Flexible pole camera	Optical Element	1/3 CMOS Sensor
	Optical Total Pixels	5.0Mega : 3200 (H) ×1800 (V)
	CMOS Sensor Size	5.07mm (H) ×3.38mm (V)
	LED lamps	6 pcs LED lamps high light
	Sensitivity	0.2Lux/F1.2
	Lens & View angle	0.5mm F1.2 120 °
	HD Video Output Interface	FPD-LinkIII
	Dimension & Weight	18 x 28mm, 10g
	Flexible pipe length	25cm soft metal pipe
Telescopic Pole	Constriction Length:58cm	Unfolded Length:228cm

Specification

7 inch Monitor	HD Video Output	HDMI : 1920* 1080 ; 1280*720
	Video Storage Pixels (16 : 9)	HDMI : 1920* 1080 ; 1280*720
	Video Compression Format	H.264
	Video Storage	AVI
	HD Digital Video Input Interface	FPD-LinkIII
	Photo Format	JPG 5.0 MP : 3200 (H) ×1800 (V)
	Storage External TF card	TF card 1GB-64GB (Optional)
	Language	Multiple
	Voltage	DC :7-24V USB DC:5V
	Current (Monitor mode)	600 mA
	Current (Video mode)	700 mA
	AC Adapter	DC 12V 1A
	Built-in Battery	Li-battery 5000mAh
	Record time	8 hours
	Dimension:	177mm x120mm x 20mm
Sunshade	One-press open sunshade	
Weight	350 g	

Package Contents

The following items are all in the box. Please check:



1*7inch Monitor

1*Telescopic pole

1*Flexible pole camera

1*Wheel tray camera

1*HDMI cable

1*USB cable

1*Adapter

1*Aluminium alloy case

1*User manual