PRECAUTIONS

Read the following precautions before operating the XtendaCam HD™ Inspection Pole.

Contact with power lines can result in death or serious injury.

The following actions will void The warranty:

DO NOT TWIST THE CARBON TUBES when adjusting the length of the pole. This will effect the internal communications cabling and destroy the mechanism.

Do not remove the bottom cover from the battery base.

The camera head on the MOTORIZED TILT XtendaCam IS WATERPROOF, HOWEVER, the control pad and the battery are NOT waterproof, they are "splashproof" only. Do not submerge the control pad, display and battery.

Battery Assembly

1. Remove the battery from the case.

2. Charge the battery. Charging the battery takes 3-4 hours for a complete charge. Note the battery is fully charged upon initial delivery.

3. Align the internal plugs.

4. Thread the base completely onto the pole.

5. When assembling the battery section, apply a light coating of synthetic grease to the "O" Ring. If "O" Ring appears worn replace immediately. *Buna O-Ring -131*

6. When the battery is low a warning will be displayed on the monitor, 15 minutes of battery life remain.

Leg Assembly

1. Remove the 2 legs from the storage case.

2. Thread in one of the legs into the collar at the working end of the pole.

3. Thread the other leg into the remaining hole.

4. Adjust position- use locking screw to secure in place.

Attaching Display Cable

1. Remove the "ACC" plug cap.

2. Insert and thread the plug on the video cable until it seats firmly in place.

3. Attach the mini DIN connector plug from the video cable to the monitor/display/recorder

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35560 Grand River Ave #420 | Farmington Hills, MI 48335 | www.z-checkcorp.com
Office: 248-676-1007 | **Email:** sales@z-checkcorp.com

Xtend-a camHD™

RECHARGING BATTERY

1. Remove the charging system from the case.

2. Remove the battery base from the pole.

3. Plug the charging cable into the battery base.

4. Plug the AC power adapter into a wall socket.

5. DO NOT remove the bottom cover from the battery base. *This will void the warranty.*

CAUTION: NiMh BATTERY

When ordering replacement battery packs, please notice the marking on the bottom of the battery pack holder.

There are 2 distinctly different types of batteries used:

Nickel Cadmium and Nickel Metal Hydride. The different types are based upon the applications of the products' use.

When ordering look at the bottom of the battery pack for the part number "EM43050, NiMh" for Nickel Metal Hydride.

If there is not an engraved part number then the battery pack is Nickel Cadmium.

EXTENDING AND COLLAPSING THE XTENDACAM POLE LENGTH

1. Remove the charging system from the case.

2. Remove the battery base from the pole.

3. Plug the charging cable into the battery base.

4. Plug the AC power adapter into a wall socket.

5. DO NOT remove the bottom cover from the battery base. *This will void the warranty.*

Note:
The collet at the camera head is NOT adjustable. Turning the collet will void the warranty. If the collet is rotated, the camera head will turn and shear the internal communication cable.

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QS

PAD FUNCTIONS

Display Cable "ACC"

Power - "ON/OFF"

Zoom - "T" (Tele)

Zoom - "W" (Wide)

**Lamp Intensity-
"UP/MAX"**

**Lamp Intensity-
"DOWN/OFF"**

Tilt - "UP"

Tilt - "DOWN"

Controls

Monitor

DC Input

USB Port

AV Output

MicroSD Card Slot

Mode Selection

Camera Input

REW/ Previous FF/ Next Menu ESC/ Mute Enter/ Capture Power ON/OFF

Speaker

Product Label

PC-863V82
Serial Number
J3T89349
CE FC ☒ RoHS

¼-20 Mount

Foldout Stand
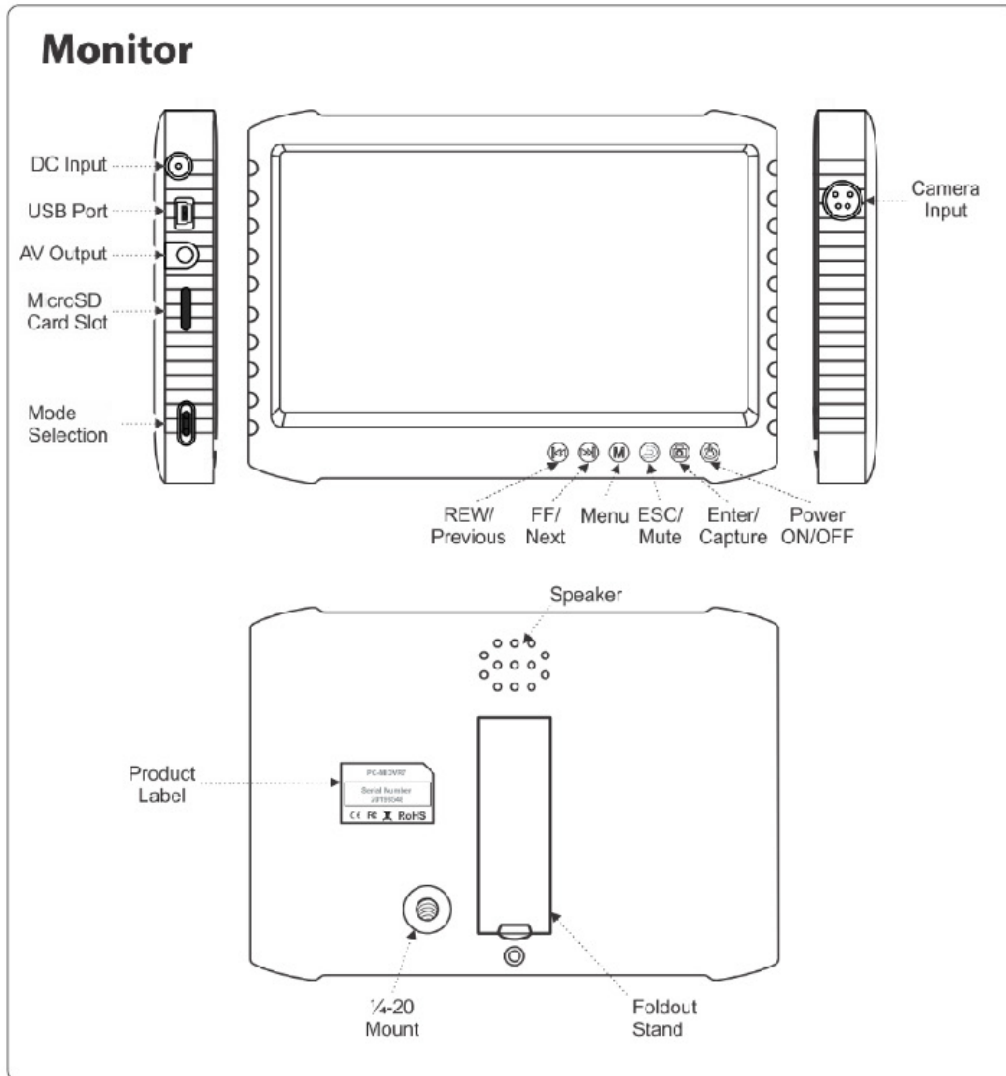
Installation/Setup

Connect Monitor Power

Connect the power supply to the unit and plug the power supply into a 100v~240v AC outlet. The unit can also operate and charge via the USB port. Connect the USB cable to the USB port on the unit and the other end into a 5v USB port. Charging will be indicated by on-screen battery icon. Please allow up to 6 hours for full charge. The on-screen battery icon will stop blinking once the unit is fully charged.

Insert Memory Card*

Insert a microSD card (128gb or less) into the MicroSD card slot on the side of the unit. After the microSD card is inserted properly, the screen will display " ▭ " and the available storage; otherwise the unit will display "00000MB".

*It is strongly suggested that a MicroSD card of class 10/U1 or higher be used from one of the following manufacturers: Kingston, SanDisk, Toshiba, and Samsung.

## Install Monitor Protective Cover

Refer to Figures below

The underside of the protective cover has four tabs to lock onto the front of the monitor (Tabs A,B,C,D). Align tabs A and B with corresponding holes, A and B, on the monitor; then gently push the two together and slide the protective cover down towards the bottom of the monitor. Tabs C and D will clip into place. To remove gently push in opposite direction. To open the protective cover, simply press the open button on the front and lift.
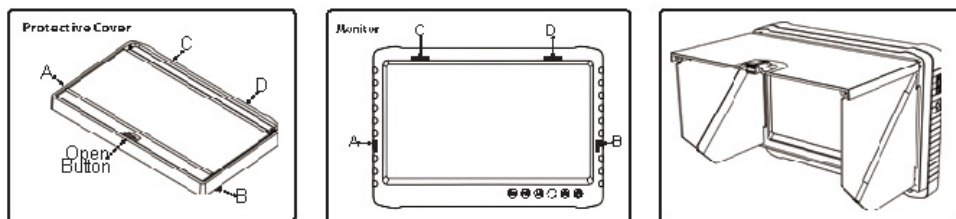
Connect USB Cable (Optional)

Use the USB cable to connect the unit to a PC or Mac. After powering up unit, the USB online icon appears on the PC. Open **My Computer**, and find the **Mobile Disk.** The video/picture files on the MicroSD card can be copied/cut/deleted/played.
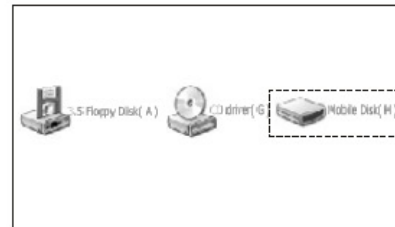
Connect AV Output Cable (Optional)

Insert the AV cable into the AV OUT socket of the unit. Insert the other end of the cable into the VIDEO IN jack of a TV or another display. The DVR unit will output a high quality video signal as well as video playback.
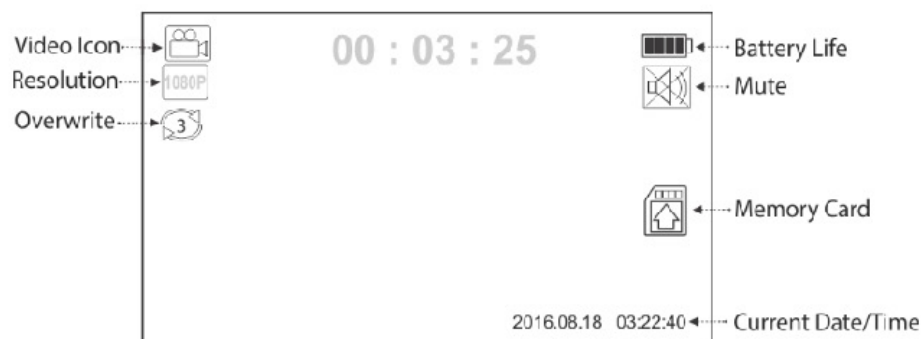
Operation

Basic Operation

1. Insert a microSD card. Press and hold the Power ON/OFF button on the unit for two seconds. Slide the Mode Selection switch to ⬚ to select video mode, 🔲 to select picture mode, or ▶ to select playback mode. Press the Power ON/OFF button to turn On/Off LEDs on camera (LED Control for optional camera heads with illumination). Press and hold the Power ON/OFF for three seconds to power off the unit.

Other Operations

Record Video

1. During operation slide Mode Selection switch to ⬚ to enter video mode.

Video Icon → 🎥   00 : 03 : 25   ▪▪▪▪ → Battery Life
Resolution → 1080P   ◁ → Mute
Overwrite → 3

    🗀 → Memory Card

    2016.08.18 03:22:40 → Current Date/Time

2. Press Capture to start recording. The screen then displays "●" in the upper left corner.

Time Recorded

00 : 03 : 25

2016.08.18   03:22:40

3. Press Capture again to stop recording.

Notice!
* Time Stamp will appear in lower right corner on video playback.
  * "Full Memory" Alert flashes on screen when Storage is full.
    * The Video will stop recording immediately if no incoming video detected.

Take Photo

1. During operation slide Mode Selection switch to 📷 to enter picture mode.

Photos Remaining

Photo Icon
Resolution

009982

5M

2016.08.18   03:22:40
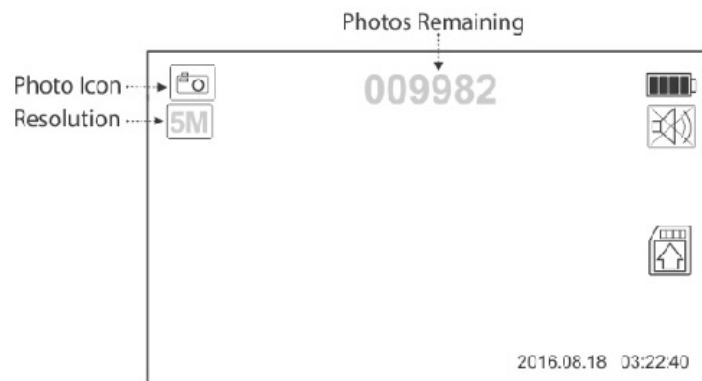
2. Press Capture button to capture a picture. The screen flashes to indicate the picture was saved.

Notice!   * The MicroSD Card is full when the Storage Remaining reads zero.
              * "Full Memory" Alert flashes on screen when Storage is full.
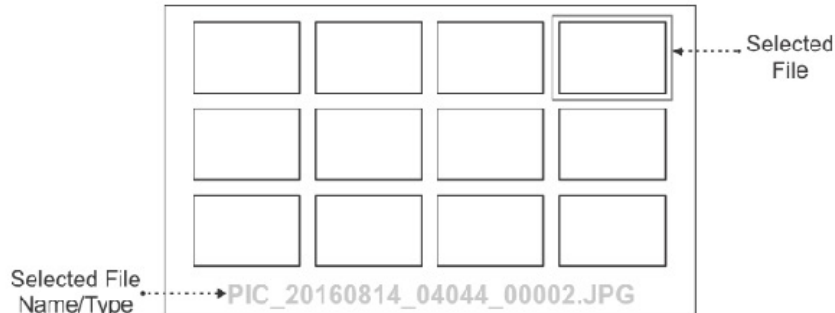
Play Video/Picture

1. During operation, slide Mode Selection switch to ▶ to enter playback mode. Press Previous or Next button to select between files to view., then press Enter button to enter.

Playback Icon ····▶
File Resolution····▶ 5M

File Name/Type ·········▶ PIC_20160814_04044_00002.JPG

2016.08.18 03:22:40

2. *For Video:*
    Press Previous or Next button to select a folder, then press Enter button to enter.

Delete
Thumbnail
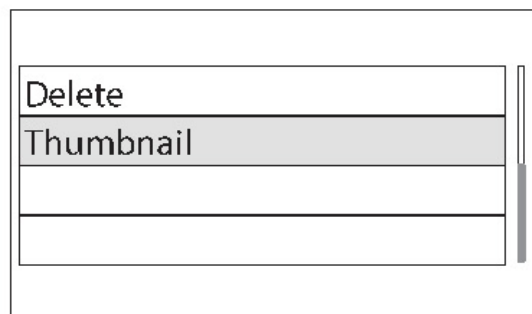
3. Press Previous or Next button to select a video, then press Enter button to enter.

Selected File

Selected File Name/Type ······▶ PIC_20160814_04044_00002.JPG

4. Playing mode will begin and the selected video will automatically play.

Time Recorded

Playback Icon ···▶
File Resolution ··▶ 1080P
00 : 03 : 25

FF/REW Indicator ··▶ 2x

File Name/Type ·········▶ REC_20160814_04044_00002.AVI

2016.08.18 03:22:40

Pause: Press Capture button in playing mode to pause.
        Press Capture button to resume.
Fast Forward: Press FF button in playing mode.
Rewind: Press REW button in playing mode.
Stop/Exit: Press ESC button once to stop.
        Press ESC again to exit.

5. *For Picture:*
Repeat steps 1 thru 3 selecting photo instead of video.
Press Previous or Next button to select a picture, then press Enter button to display the picture. While viewing, use Previous or Next to go to the next photo in folder.
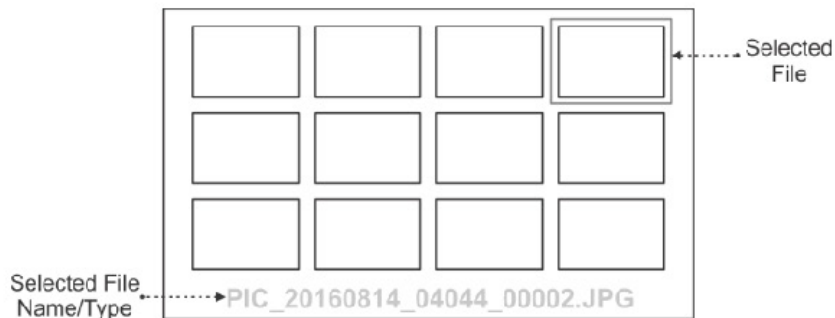Press ESC button to exit.
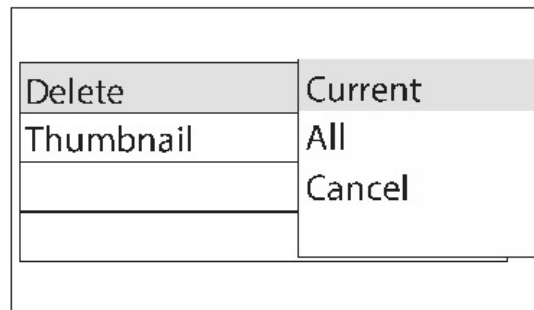
Delete Video/Picture

1. During operation, slide Mode Selection switch to ▶ to enter playback mode. Press Previous or Next button to select between photo and video, then press Enter button to enter.

2. Press Previous or Next button to select a folder, then press Enter button to enter.

3. Press Previous or Next button to select a file, then press Menu button to show options.

Magnification

1. During operation, slide Mode Selection switch to 📷 or 🎥 to enter a capture mode. Press Next button to magnify image from 1.0x up to 4.0x. Press Previous button to lower magnification.

Device Settings

Entering Settings Mode

During operation, press and hold Menu button for about 1-2 seconds to enter the Settings Mode. Menus vary slightly based off Mode Selected. In picture mode, user can adjust picture size, time stamp and date format without affecting formats for video mode and vice versa.

Language Setting

1. In the setting mode, press Previous or Next button to select "Language", then press Enter button to enter.

Language	English
Screen Off	Francais
Icon Off	Deutsch
LoopRecording	▽

2. Press Previous or Next button to select a suitable language.
3. Press Enter button to confirm and exit, or press ESC button to discard changes.

Screen Off Setting

1. In the setting mode, press Previous or Next button to select "Screen Off", then press Enter button to enter.

Language	1 Min.
Screen Off	3 Min.
Icon Off	5 Min.
LoopRecording	▽

2. Press Previous or Next button to select desired duration;
   Press Enter button to confirm and exit, or press ESC button to discard changes.

Icon Off Setting

1. In the setting mode, press Previous or Next button to select "Icon Off", then press Enter button to enter.

Language	Off
Screen Off	On
Icon Off	Auto
LoopRecording	

2. Press Previous or Next button to select icon visibility.
3. Press Enter button to confirm and exit, or press ESC button to discard changes.

Loop Recording Setting

1. In the setting mode, press Previous or Next button to select "LoopRecording", then press Enter button to enter.

Language	Off
Screen Off	1 Min.
Icon Off	3 Min.
LoopRecording	☒

2. Press Previous or Next button to select desired recording length.
3. Press Enter button to confirm and exit, or press ESC button to discard changes.

Time Stamp Setting

1. In the setting mode, press Previous or Next button to select "Time Stamp", then press Enter button to enter.

Time Stamp	Off
Date Format	Date Only
Date Input	Date&Time
Time Input	

2. Press Previous or Next button to select desired size.
3. Press Enter button to confirm and exit, or press ESC button to discard changes.
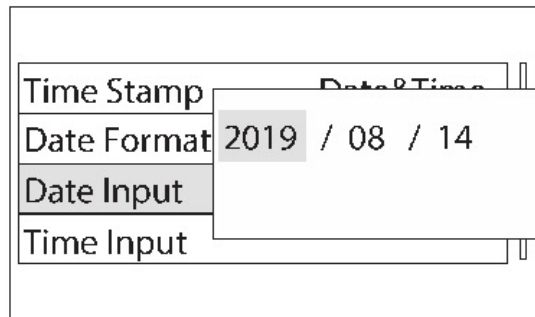
Date Format Setting

1. In the setting mode, press Previous or Next button to select "Date Format", then press Enter button to enter.

Time Stamp	YY/MM/DD
Date Format	MM/DD/YY
Date Input	DD/MM/YY
Time Input	

2. Press Previous or Next button to select desired date layout.
3. Press Enter button to confirm and exit, or press ESC button to discard changes.

Date Input Setting

1. In the setting mode, press Previous or Next button to select "Date Input", then press Enter button to enter.
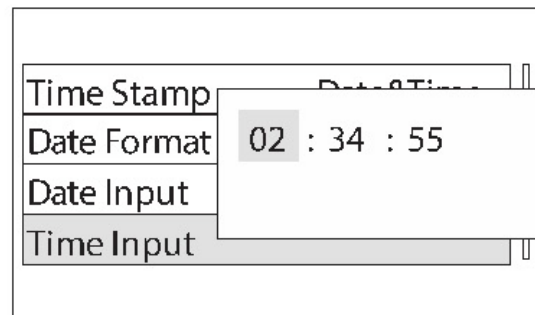
Time Stamp	Date&Time
Date Format	2019 / 08 / 14
Date Input	
Time Input	

2. Press Previous or Next button to modify numbers.
3. Press Enter button to confirm and continue adjustments;
   Press ESC button to discard and exit.

Time Input Setting

1. In the setting mode, press Previous or Next button to select "Time Input", then press Enter button to enter.

| Time Stamp	Date&Time
Date Format	02 : 34 : 55
Date Input	
Time Input	

4. Press Previous or Next button to modify numbers.
5. Press Enter button to confirm and continue adjustments;
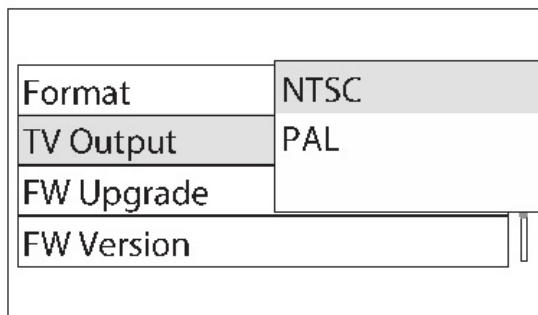   Press ESC button to discard and exit.

Format Setting

1. In the setting mode, press Previous or Next button to select "Format", then press Enter button to enter.

Format	Cancel
TV Output	Execute
FW Upgrade	
FW Version	
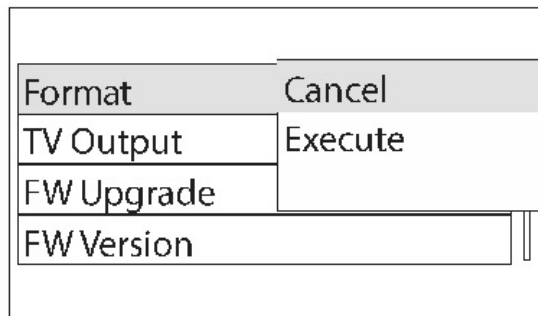
2. Press Previous or Next button to select "Execute" or "Cancel".
3. Press Enter button to confirm and exit, or press ESC button to discard changes.

TV Output Setting

1. In the setting mode, press Previous or Next button to select "TV Output", then press Enter button to enter.

Format	NTSC
TV Output	PAL
FW Upgrade	
FW Version	

2. Press Previous or Next button to select desired output format.
3. Press Enter button to confirm and exit, or press ESC button to discard changes.

Firmware Upgrade

1. In the setting mode, press Previous or Next button to select "FW Upgrade", then press Enter button to enter.

Format	Cancel
TV Output	Execute
FW Upgrade	
FW Version	
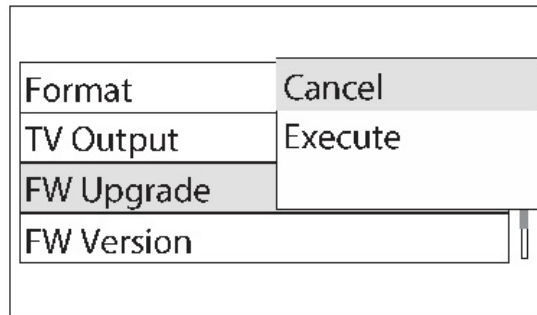
2. Press Previous or Next button to select "Cancel" or "Execute".
3. Press Enter button to confirm.

Version Information

1. In the setting mode, press Previous or Next button to select "FW Version", then press Enter button to enter.

Format	
TV Output	SZZJP 05C181222A
FW Upgrade	
FW Version	

2. Once done reviewing information, press Enter or ESC button to exit.

Default Setting

1. In the setting mode, press Previous or Next button to select "Default Setting", then press Enter button to enter.

```
Sys. Reset    | Cancel
              | Execute
```

2. Press Previous or Next button to select "Cancel" or "Execute".
3. Press Enter button to confirm and exit, or press ESC button to discard changes.

Size Setting

1. While in picture mode, enter setting mode. Next press Previous or Next button to select "Size Setting", then press Enter button to enter.

```
Size          | 3M
Time Stamp    | 5M
Date Format   |
Date Input    |
```
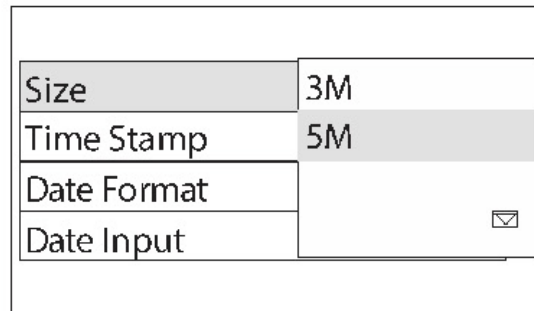
2. Press Previous or Next button to select desired resolution.
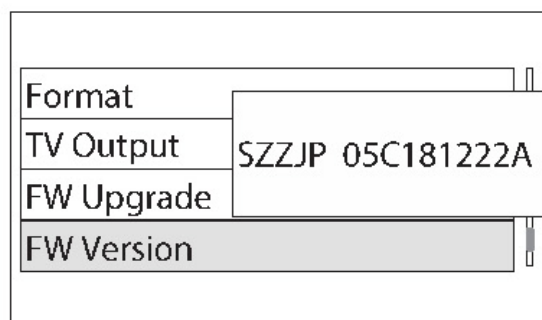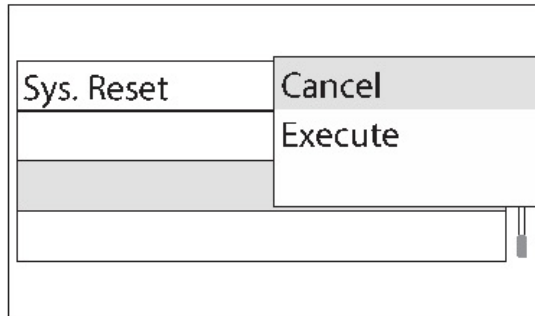3. Press Enter button to confirm and exit, or press ESC button to discard changes.

Tips & Troubleshooting

1. Memory Card should be inserted before powering on monitor.
2. For USB connection, mode selection switch must be in playback mode,
3. Unit does not power up, maybe fully discharged. Plug into supplied ac adapter or usb to pc and allow unit to charge.
4. System interface stops responding, hold down power until unit powers off, then restart.
5. Unit doesn't play video, video file may be of wrong format. Convert video file to supported video format, AVI.
6. The On-screen text is unreadable, please check desired language is selected under language settings.
7. Unit not able to be found by PC, or allow file transfer, replace USB cable/Test on another USB port.
8. Unit does not save: make sure memory card is inserted; make sure memory card is not full or corrupted; attempt to format card under format settings.

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Specifications

Technical Specifications				
Screen	Size	5in		7in
	Dimension	107mm(W) x 64mm(H)		154mm(W) x 85mm(H)
	Brightness	400 cd/m²		
Video	Input	HD TVI, AHD, CVBS		
	Aspect Ratio	16:09		
	Resolution	1920*1080; 1280*720; 848*480		
	Compression Format	H.264		
	Storage Format	AVI		
Audio	Frequency Range	20Hz-20KHz		
	Compression Format	AAC		
Photo	Format	JPG/JPEG		
	Resolution	5MP; 3MP; 2MP; 1.3M; VGA		
Storage	External SD card	MicroSD card 2-128GB		
	64GB Recording time	24-64 hours		
Output	Phono	Analog Video		
	Mini USB	Digital File Transfer		
	Built-in speaker	1W		
Operating System	PC	Windows & Mac OS		
	Port	USB 2.0		
	Language	Multiple		
Power	Voltage	DC: 5-12V USB DC: 5V		
	Current Consumption	<900mA		<900mA
	Built-in Battery	Li-battery 4.5Ah		Li-battery 7.0Ah
	AC Adapter	DC 12v 2A		
	Working Time	≈ 4-6 hours		
Dimension	PC-MIVR7	139mm x 90mm x 19mm		183mm x 124mm x 20mm
Weight	PC-MIVR7	216g		380g

* All the specifications are subject to minor change without prior notice.