

HoryzonHD4

14 Megapixel High Definition Split-Type DVR

Instruction

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Notice

> Warning

- Keep from moisture to avoid fire hazard, electric shock and damage.
- Only use the recommended accessory.
- Do not disassemble, there is no maintainable parts inside the machine.

> Attention

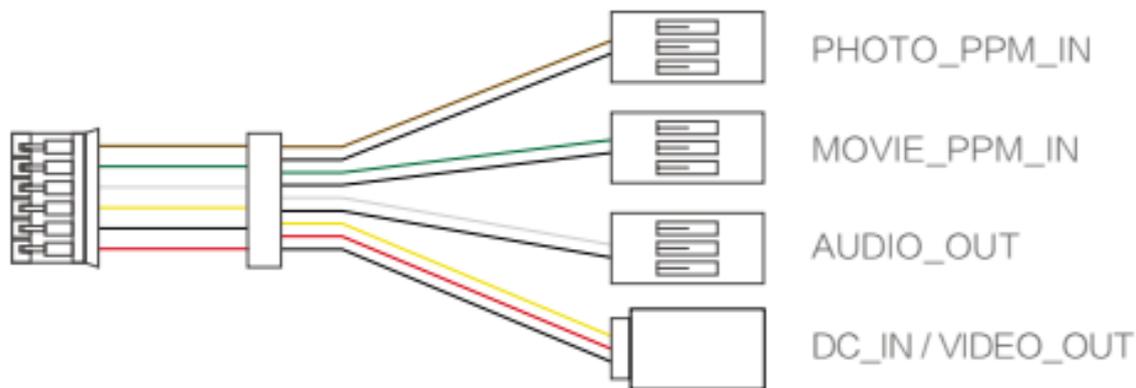
- Certain frequency electromagnetic field may affect the image and sound.
- If transfer data failed by static or electromagnetic, disconnect and restart, re-link the cable (USB etc.).
- Do not install the device in the confined container to avoid any fire hazard and damage.
- Do not close the device to the fire.
- Built-in battery is for video saving. If system halted, disconnect the external power source 30seconds, system will reset automatically.
- Due to the split-type, hot removal and insertion between the camera and host is not allowed. Before power on, connect the camera and host first.

Start Guide

> Accessory Diagram



USB Cable

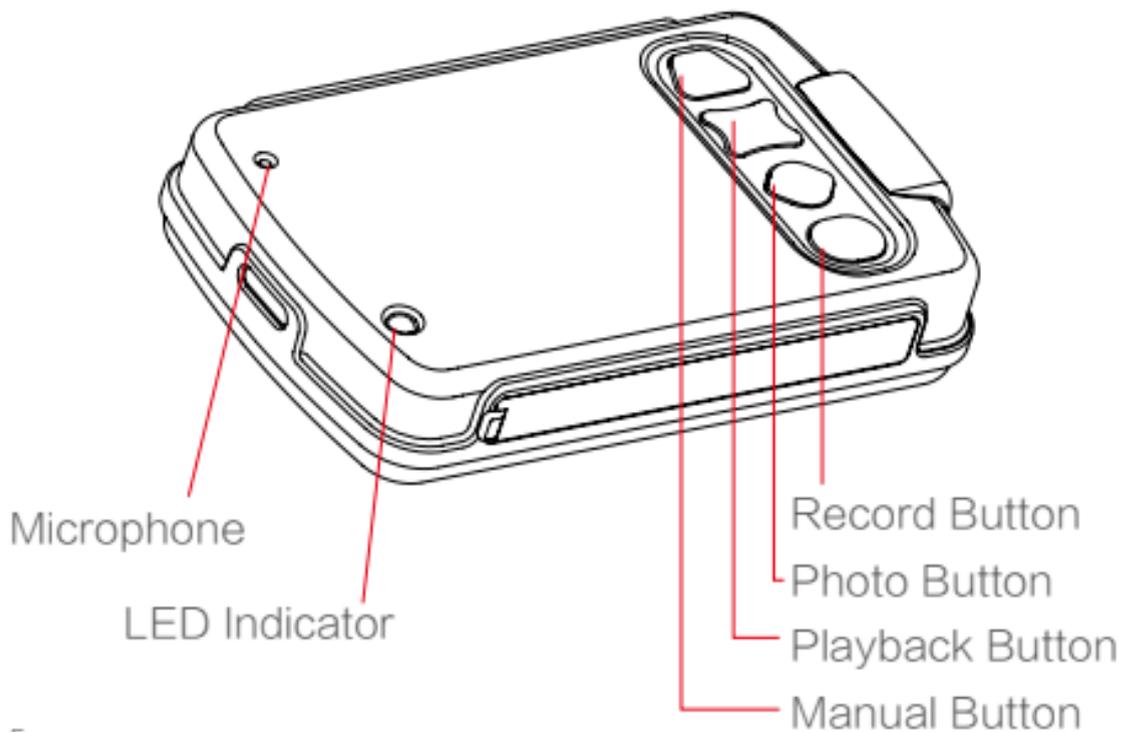


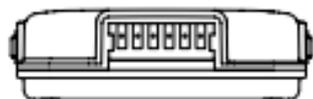
6P Multi-function Cable



6PDC Cable

> Function Diagram





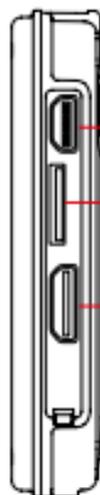
6P Multi-function Port



Camera Port



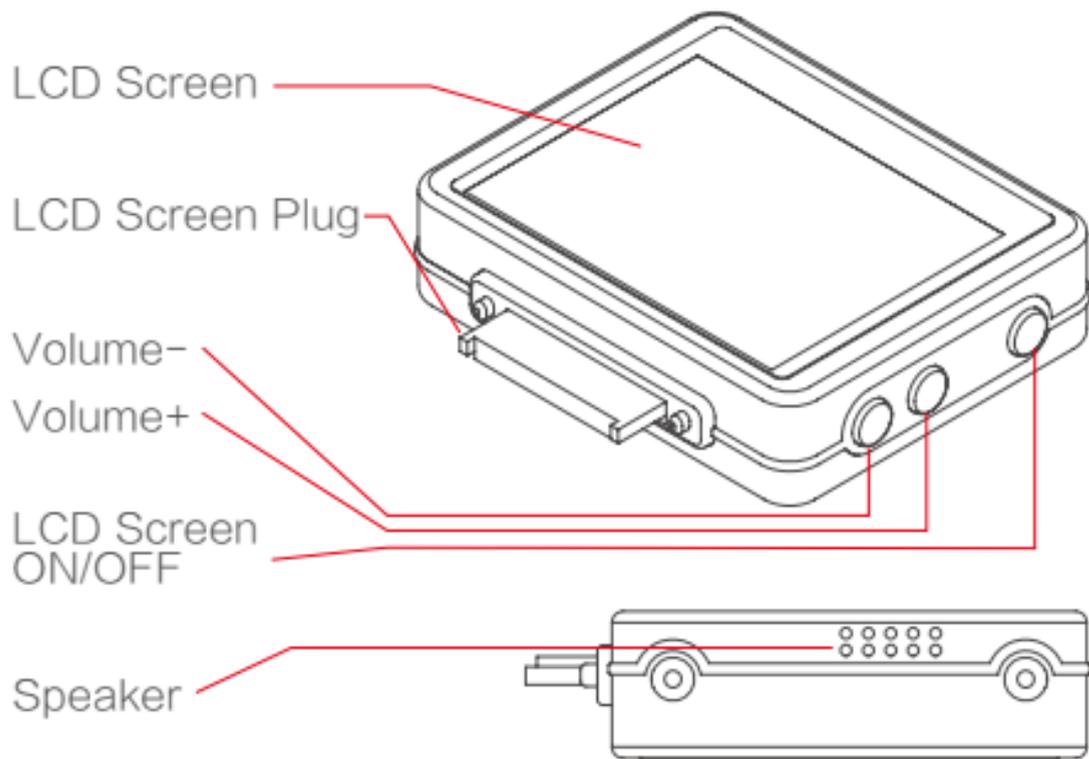
LCD Scree Socket

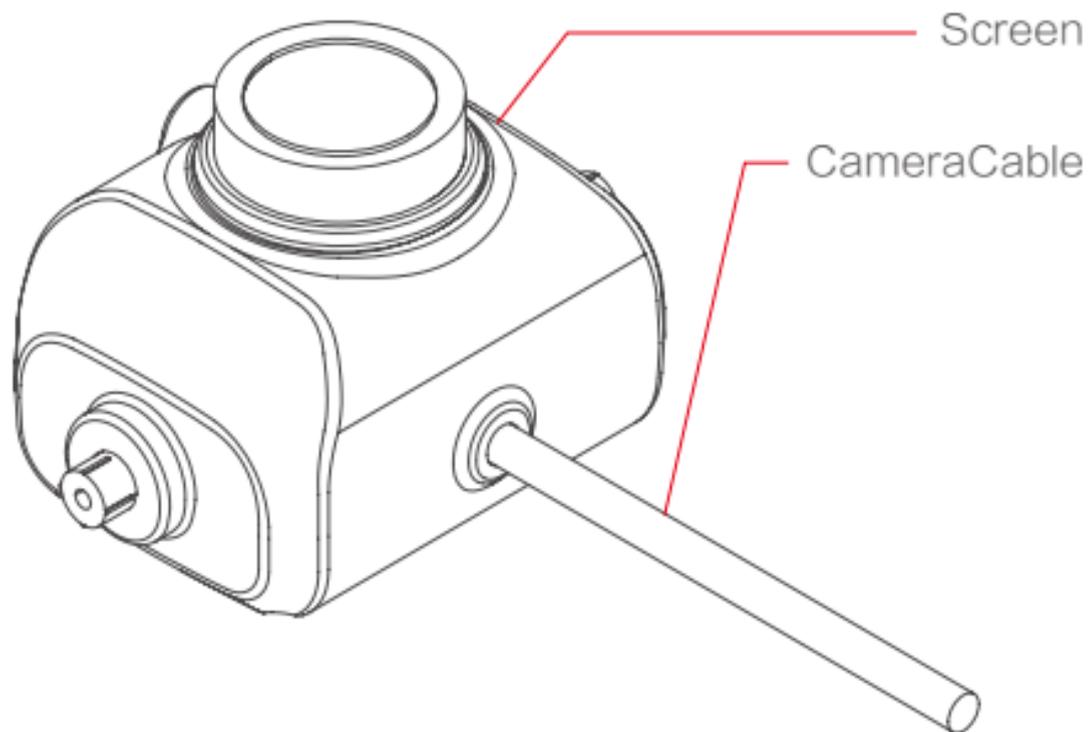


USB Cable Port

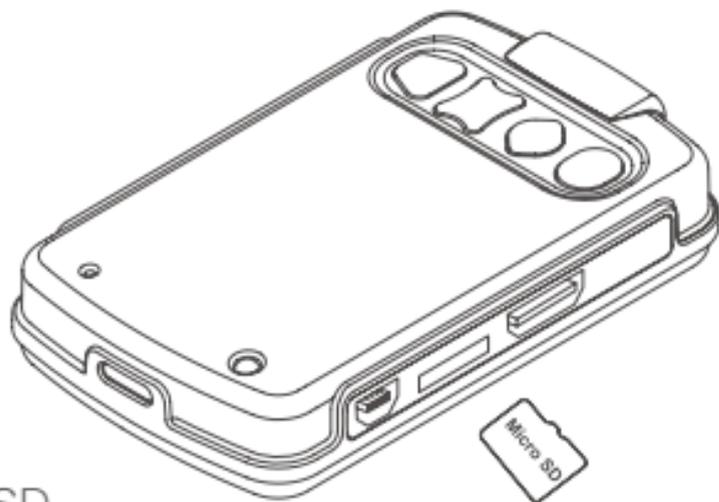
Micro SD Port

HDMI Port





> Micro SD Insert and Plug in



Insert the Micro SD

Follow the arrow direction, insert the Micro SD Card, keep the gold contact facing down, push into the card with 'click' sound.

Take Out the MicroSD

- When record and playback, do not take out the Micro SD Card.
- Press the Micro SD inward with 'click' sound, then take out the card.

> Power ON/OFF

The device is auto start up when power on, auto save when power off. Can work with 3-6S(12V-25V) battery directly, also can input 5V voltage from USB port.

> Date/Time Setting

- First use, keep the device on-state for 24 hours. It could make full charge of built-in battery which is used for time and power off retention

- During the first-use, set the date and time to guarantee the documents on the right date and time.

Continuously Press "M" to Menu to choice"  "

press"  /  "to the date 2008/01/01 00:00 (year/month/day/hour/minute), press "OK  " to begin setup.

"M" : Item select

"  /  " : adjust the figure

"OK  " : confirm and quit

Operation Guide

> Function Setting Menu

Press "M" to Menu, choose "record  /photo  /setting  " by "M", then press "OK  " to sub-menu setting inter-surface .

Press "  /  " to choose sub-menu, then press "OK  " to lower sub-menu.

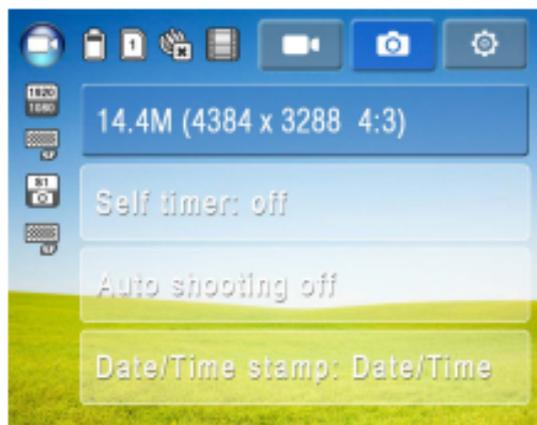
Press "  /  " to choose sub-menu, then press "OK  "

to confirm the setting, at last press "M" to quit to main menu.

The operation above refer to the following picture:



- ① Photo Quality : S.Fine, Fine, Normal
- ② Photo Size : 14M,16M
- ③ Video Quality : S.Fine, Fine, Normal
- ④ Video Size : 1920*1080 30p 16:9;1280*720 60p 16:9;
1280*720 30p 16:9; 848*480 60p 16:9;848*480 30p 16:9;



- ⑤ Mode : Video/Photo, Thumbnail, Playback
- ⑥ Battery Volume
- ⑦ Sd Card Volume / Micro SD
- ⑧ Self Time : Off, 3sec, 5sec ,10sec
- ⑨ Rec Lapse : Normal record, rec lapse off, rec lapse 1sec, rec lapse 5sec, rec lapse 30sec

1. Record Menu Setting Item

Video Size	1080P 30P/720P 60P/720P 30P/480P 60P/480P 30P
Auto-Record	ON / OFF
Video Quality	High / Middle / Low
Video Section	5 min /10 min /15 min /OFF
Watermark / Postmark	OFF / Time / Date / Time and Date
Time-Lapse Record	OFF/ 1 sec/ 5 sec/ 30 sec
Loop Video	ON / OFF

Microphone	ON / OFF
Microphone Volume	30P/ 70P/ 100P

2. Photo Menu Setting Items

Photo Size	14.4M(4384*3288 4:3)/16M(4608*3456 4:3)
Delay Photo	OFF/ 3/ 10/ 20/ 30/ 60 sec
Self-Timer	OFF/ 3/ 5/ 10 sec
Watermark/ postmark	OFF/ Time/ Date/ Time and Date

3. System Setting Menu Items

Language Setting	Simplified Chinese/ English/ Japanese/ Portuguese/Germany
Date/ Time Setting	2008/01/01 00: 00 (Year/Month/Day/ Hour/Minute)
Auto Screen Off	30sec/ 1/ 3/ 5 min
Auto Power-Off	OFF/ 3/ 5/ 10 min
Image Rotation	Standard / 180 ^o
File No.	Reset / Continuous

Notification Tone	ON / OFF
Indicating Light	ON / OFF
Formatting	30P/ 70P/ 100P
Default Setting	
USB Port Mobile	HDD/ Camera/ Power supply
Version Information	

> Record

1. Record :

- Press "  " to start the record, "  " on the top of screen and the moving time shown.
- The auto-save of video file is in accordance with the setting time of video segmentation in the record menu; for example: the setting time of video segmentation is 10 minutes, once the recording time reached 10 minutes, the system will save the file automatically and then keep going. The name of files will be named incrementally.
- If turning off the video segmentation, the video will be segmented when the file reaches to 4G.

2. Auto Record :

- When the device power on and start, it will access to the recording mode automatically.
- Under the recording mode, the setting of recording menu is the same with the setting before start.

3. Time Lapse Record:

- In the time lapse record, the record icon “  ” of standby image will response to the setting time lapse record.
- The function is suitable for the micro-variation scenery, such as the blossom of flowers and the growth of plants. The size of file under this mode possesses small storage space. Playback needs the professional player to single-frame play and slow forward.

4. Record Loop :

- In the loop record, the record icon “” of standby image will response to the setting time lapse record.
- In the loop record, there is no need to replace the memory card for long time record, the recording is between normal record and auto record mode.
- Once the memory card is full, the system deletes the earliest file.
- Under the loop record mode, recommended the video segmentation did not set to off to guarantee that the system deletes the earliest file when the memory card is full.

> Photo

1. Normal Photo Mode :

Press  once to take one picture. During taking photo, the photo icon  changes with the photo modes.

2. Delay Photo :

Setting the camera aperture and adjusting the delayed time, the photo icon  changes with the setting. Then press  , the system will finish taking the pictures under the delayed time.

3. Auto Photo :

Under the auto photo mode, the photo icon  will turn to auto indicator, then press the button  , the system will take the pictures continuous according to the setting time, then press  to stop taking.

> Playback

1. Playback Operation

Under the preview mode, press "OK  " to preview thumbnail inter-surface.

● Playback Preview :

Quit the Playback Mode: Long Press M

Access to Playback Menu: Press M

File Select: Press "  /  "

Play: Press "OK"

● File Play :

Pause/Resume: Press "OK  "

Stop: Press "M"

Previous: Press "  "

Next: Press "  "

- Playback Menu

Confirm: press "OK 

Up: Press "  "

Down: Press "  "

Quit: Press "M"

2. Playback Menu

Play Menu	Single/ Full/ Single Cycle/ Full Cycle
PowerPoint	ON / OFF
PowerPoint Mode	Fade-Out / Floating
File Delete	The Current File Delete / All the File Delete

3. Playback Setting Menu:

- Same with the main menu setting items.

> The Indicator

- Under the normal working, the indicator long light.
- When recording/taking photo, the indicator turn long light to flash, after accomplished, it is back to long light.
- There is the on/off select of indicator in the menu, the indicator could be ON or OFF.

Other Special Function

> Connect to the Computer

- Before connecting to the computer, set the power supply/mobile HDD/camera.
- If selecting the power supply mode, the device is charged through USB cable with computer.
- After selecting mobile HDD mode, computer could visit the memory card through USB cable and operate.
- After selecting the camera mode, the image shot by the device could be displayed on the computer. Before selecting the computer camera, please install the drive of device camera.

> Connect to Aircraft Remote Controller Receiver

- Connect to the aircraft remote controller receiver by the dedicated tail circuit. The connection could take photo or make record to the device in the air.
- The test of the function on FUTABA system is passed.

Basic Specification

Item	Content
Image Sensor	1/2.3 COMS 14 megapixels
Camera	Lens F+2.8 FOV: 150° up and down: 90°
Exposure Control	Automatic
White Balance	Automatic
Photo	Format: JPEG pixel 14.4M (4384*3288 4:3) / 16M (4608*3456 4:3)

Image	Format H.264 compressed format size 16: 9 1920*1080 30 frame/second,6: 9 1280*720 60 frame / second, 16: 9 1280*720 30 frame / second 16: 9, 848*480 60 frame / second, 16: 9 848*480 30 frame / second.
Storage	Max Micro SD Card: 32GB
LCD	2.0" TFT LCD Pixel: 960*240
Multi-Function Port	Multi-function USB port (compatible with mini USB Plug) , mini HDMI port, 30P LCD pin port, 6P multi-function tail circuit port.