2 Channel Mini DVR

Manual

Content

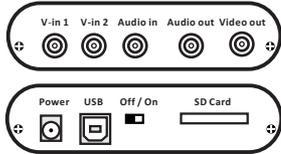## Keys on DVR

| ↑	Move up/Motion detect on
↓	Move down/Motion detect off
←	Move left
→	Move right
OK/Menu	Confirm/enter into main menu
Power	Power indicator
Status	Working indicator
Playback	Playback videos
Switching	Switch cameras
Preview	6 pictures preview
Rec.	Manual start/stop recording

Side face on DVR

V-in 1	Camera 1 video input
V-in 2	Camera 2 video input
Audio in	Camera audio input
Audio out	Audio output
Video out	Video output
Power	Connect with power adapter
USB	Connect with original USB cable
Off/On	Power on/off
SD Card	Insert SD card

Icons on screen

CH1

CH2

2012/08/10 14:50:35
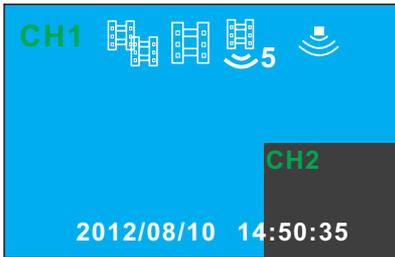
Icon	Description
	Record mode
	Manual record
	Motion detection record
	Movie 5s by motion detection
CH1	Camera 1 video
CH2	Camera 2 snapshot
2012/08/10	Date (Year/Month/Day)
14:50:35	Time(Hour/Minute/Second)

How to connect with cameras

Camera 1
Camera 2
Monitor
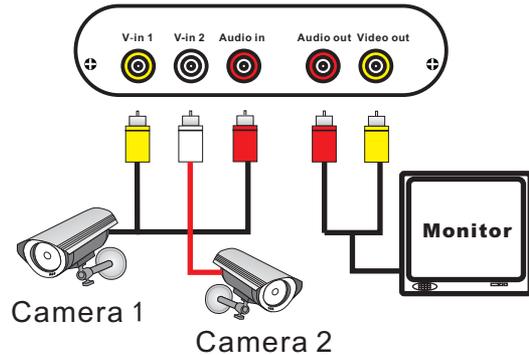
1. 2 cameras can be connected with DVR and working at the same time
2. Please take out the original 3 pins AV cable
3. **Yellow cable**: one side connect with camera 1(video out), and the other side connect with DVR(V-in 1)
4. **White cable**: one side connect with camera 2(video out), and the other side connect with DVR(V-in 2)
5. **Red cable**: one side connect with camera 1 or camera 2 (Audio out),the other side connect with DVR(Audio in) (*The audio can be recorded when the camera have audio out function)

How to connect with Monitor/TV

1. Please take out original 2 pins AV cable.
2. **Yellow cable**: one side connect with DVR (video out), and the other side connect with monitor/TV (Video in)
3. **Red cable**: one side connect with DVR (Audio out) , and the other side connect with monitor/TV (Audio in)

Easy to record & playback

Insert an SD card into unit, the screen display as below:
Press "Switching" to select the camera in main screen

1. When only 1 image in full screen, DVR only records 1 camera in video mode, frame 25f/s;

2. When 2 images on screen as below, the larger one is in video record mode, frame 15f/s; the smaller one is in snapshot mode, JPEG.

3. Press arrow key "UP" to active motion detect feature, you will see the icon as above;

4. Try to move in the image to trigger DVR to record as below:

5. After 10sec recording, press arrow key "DOWN" to disactive motion detect, and you will see NO icon.

6. Press "Playback" and you will see screen as below;
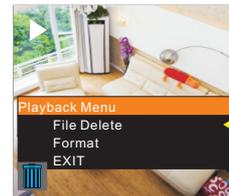
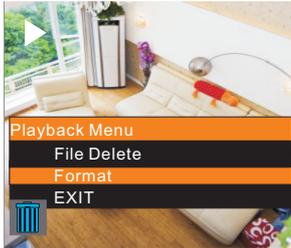7. Press "Rec" to playback the video; press "Rec" again to pause;

8. After 10sec playback, press "Preview" to view all video files:

9. Press arrow keys and "OK" to select and play the video; in standby mode, press "OK" to delete the files;

10. Format SD card:
    Choose "Yes" to format SD card.
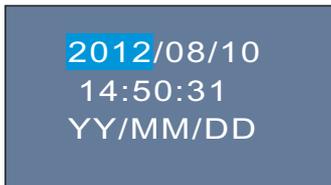   Please format the SD card on your first time use.

Set time and date

Insert a SD card before use it. Press "OK/Menu" key to enter
into main menu and choose time icon.

1. Choose Set Time/Date, press "OK" to confirm. Press
   " ←, →"key to choose items. Press"↑, ↓" to set.

2. You can set the date format when you choose "YY/MM/DD".
   Press"↑,↓" to set it.

Manual Record setting

1. Press "OK" key enter into main menu and choose [icon] ,
   choose Master Ch. to set it.

2. **Photo 1:**Snapshot 1 photo when manual record
   Photo 3: Snapshot 3 photos when manual record
   Movie: Record videos when manual record
   Movie Clip: Record videos clips when manual record,
   1 minute for every clip.
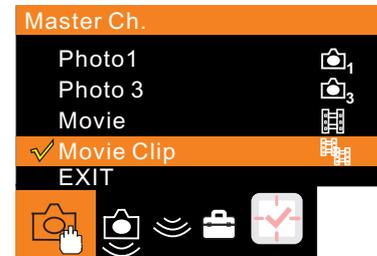
Motion detection settings

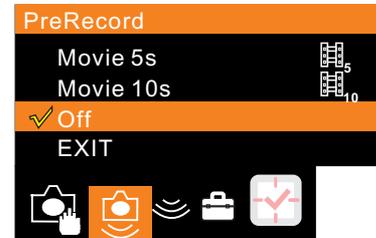1. Press "OK" key enter into main menu and choose icon.

```
Auto Capture
  Auto Capture
  Master Ch.
  PreRecord
  EXIT
```

Auto Capture: Choose ON to turn on motion detection, choose OFF to turn off.

2. **Master Ch**.：4 working status under motion detection

```
Master Ch.
  Photo1            📷₁
  Photo 3           📷₃
  Movie 5s
✓ Movie 10s
  EXIT
```

Photo 1: Snap shot 1 photo when motion detected
Photo 3: Snap shot 3 photos when motion detected
Movie 5s: Record video for 5s per clip when motion detected
Movie 10s: Record video for 10s per clip when motion detected

3. **Prerecord**：It helps DVR record between 2 clips. Generally 2−3 seconds can be saved in next clip
   Movie 5s: Prerecord video for 5 seconds
   Movie 10s: Prerecord video for 10 seconds
   OFF：Choose OFF to turn off prerecord function.

```
PreRecord
  Movie 5s          🎞₅
  Movie 10s         🎞₁₀
✓ Off
  EXIT
```

Set detect range and sensitivity

1. Press "OK" key enter into mainmenu and choose icon.

```
Motion Detect
  Range
  Timeslot
  Sensitivity
  EXIT
```

Range: You can choose 1/1（full screen）,1/4 screen 1/16 screen as surveillance area.

Timeslot: You can choose1,3,5 seconds as motion detect time

Sensitivity: Set motion detect sensitivity in Low,Middle,High status. The motion detection will be triggered easy when you set it high.

Picture quality and TV mode setting

1. Press "OK" key enter into main menu and choose 🧰 icon.

> **Advanced Setting**
> Photo Quality
> Movie Size
> File OverWrite
> TV Output
> Format Card
> Beep

2. **Photo Quality** (detail resolution please see the list below)
   High: High resolution
   Standard: Standard resolution
   Low: Low resolution

3. **Movie Size** (detail resolution please see the list below)

   QVGA: QVGA **r**esolution
   D1: D1 **r**esolution

Resolution in different status

Status	Video		Snapshot	
	1 camera	**2 camera**	**1 camera**	**2 camera**
D1&HIGH	720x576	720x480	720x576	720x480
D1&Standard	720x576	720x480	720x576	720x480
D1&Low	720x576	720x480	720x576	720x480
QVGA&HIGH	360X288	360X288	720x576	360X288
QVGA& Standard	360X288	360X240	720x576	360X240
QVGA& Low	360X288	360X288	720x576	360X288

4. **File overwrite**
   Choose ON to turn on overwrite, OFF to turn it off.
5. **TV Output**
   Choose PAL or NTSC mode to work with monitor.

> **Advanced Setting**
> Format Card
> Beep
> Set to Default
> Disk Info
> FW Version
> EXIT

6. **Format Card**
   Format the SD card when first time use
7. **Beep** (Not available for now)
8. **Set to Default**
   Use it to set to default when problems happen
9. **Disk Info**
   Check SD card capacity used
10. **FW Version(**Ver 2.42 UI2.57**)**

Playback

Press "Playback" key in standby mode. You can see the video recorded time at the left corner. Press "←""→" keys to choose the video you want to play back, and press "Rec." key to play videos.
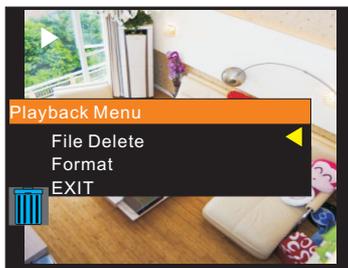
6 Pictures preview mode

Press "Preview" key under Playback mode. You can see 6 different pictures on screen, and you can press "←" "→" keys to choose the video by different time stamp at the left corner. Press "OK" to choose and press "Rec." to play the video.

Delete files

1. Press "Playback" key in standby mode. Press "OK" to Choose the file you want to delete, and then press "OK" to delete it.
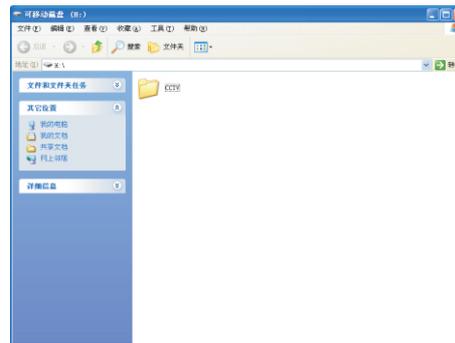

File Delete: delete current file
Format: Delete all files in SD card（All files will be lost and can not get them back.）
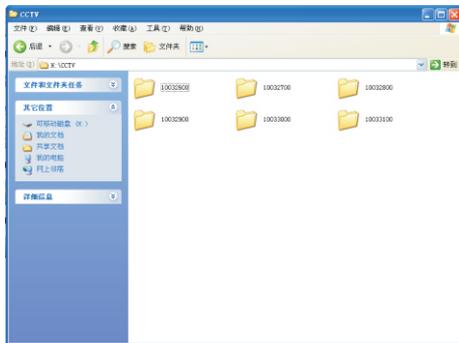
Read files by USB cable

1. Connect DVR with computer by original USB cable. Turn on DVR, "MSDC" will display on screen.

2. You can see the folder named "CCTV" in your computer.

3. You can see many folders named by different date.
   For example：10032600.The format is Year/Month/Date.

4. You can see many videos or pictures named by different
   time in the folder.
   For example：133105-1. The format is Hour/Minute/Second

Specifications

AV Input	3 RCA ports (2 video+1 audio)
AV Output	2 RCA ports (1 video+1 audio)
Frame	Pal:25f/s NTSC:30f/s
Resolution	D1:704X576
	QVGA:360X288
Compression format	M-JEPG & Standard JPEG
Detect mode	Motion detection
Working mode	Recording/snapshot
Memory	SD/SDHC card≤32GB
USB port	USB 2.0
Power	DC12V (5V-32V optional)
Working electricity	≤250Ma
Working temperature	-10℃~+50℃
Working humidity	20%~85%
DVR weight	160g
DVR dimension	101X105X26mm (LxWxH)