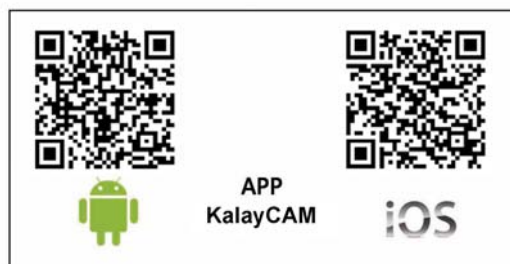


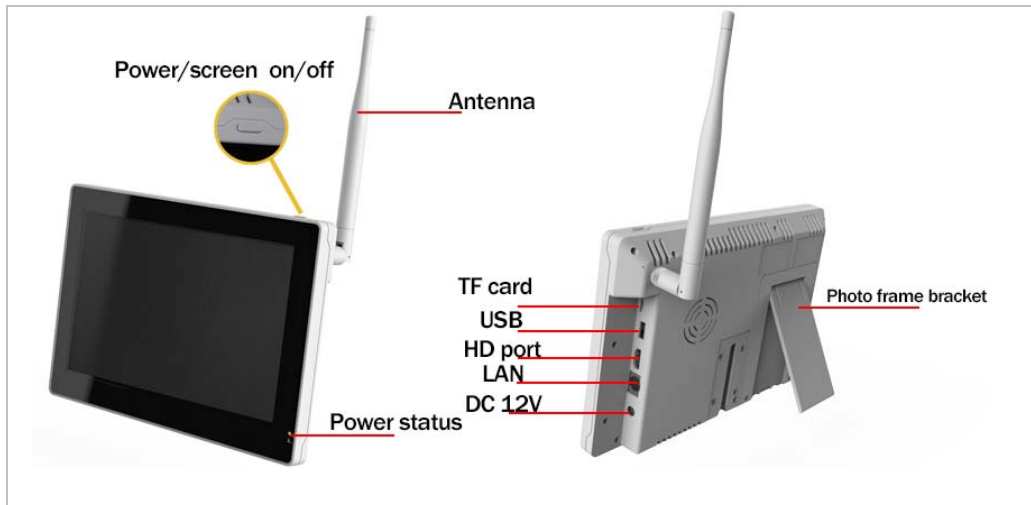
9" Digital Wireless LCD NVR
Model: RW0916N4



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1. PRODUCTS OVERVIEW

1.1 NVR



Note: There is only one button on the top of the monitor, which can be used as POWER key and SCREEN key. Press 1 second, the screen will turn on/off. Keep pressing 3 seconds, the power will turn on/off.

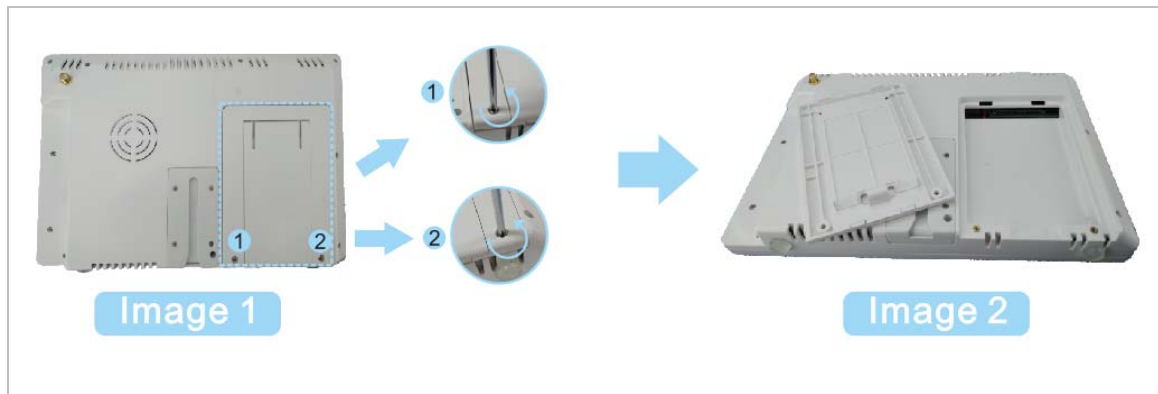
1.2 Bracket (Optional)



1.3 Camera



2. HARD DISK INSTALLATION



* Unscrew the screw 1 2



Install the 2.5 inch HDD, obliquely inserted it into the NVR and tighten the Screws.

Note:

If you do not install the 2.5 inch HDD, Recording will be unworkable

3. SPECIFICATIONS

2.4G Wireless NVR (KW16N4-L09)		
Items	Parameters	Values
LCD Panel	Screen type	9" TFT-LCD
	Display Area	196.61×114.15mm
	Resolution	1024(H)×RGB×600(V)
System	Main processor	ARM9EJ-S
	Operating system	RTOS
Video	Video compression	H.264
	Video input mode(IP)	4*720P
	Video Outputs	HDMI, Analog Video
	Display Resolution	Max. 720p HD
Audio	Audio compression	Audio32
	Intercom	Option

Recording	Recording Modes	Manual, Scheduled, Motion Trigger
	Recording Resolution	720p HD (4 Channels)
	Recording Frame Rate	Max 25fps / 30fps @ 720p for each channel
	Loop Recording	Yes
	Hard Drive	Built-in HDD slot (Max. Supported 2TB)
Connections	Network Apps	Kalay Cam (iOS & Android)
	Account Type	Google, Facebook, Wechat, QQ
	Network Access Mode	Local, P2P
	Event Push to Smartphone	Yes
	NVR Mobile Sharing	Yes
External Interface	Network Interface	RJ45 LAN Port x 1
	HDMI Output	HDMI Port x 1 (1.3)
	AV Output	None
	SD Card video files export	32GB (AVI Format)
	USB Port	Yes (2.0)
External Controller	Panel Key	N/A
	IR Remote	N/A
	Touch Key	N/A
	Touch Screen	Yes
General	Power Supply	DC12V/2A
	Working Environment	0~+55℃ / 10~90%RH / 86~106kpa
	Dimension	24.5*16.5*3.0mm
	Weight	0.68kg

Camera (CWB604)

Items	Parameters	Values
Sensor and lens	Image Sensor	1/4" OV9712 1Megapixel progressive scan CMOS
	Focal Length	3.6mm
Video	Video Quality	720p
	Viewing Angle	70 (Diagonal)
Night Vision	IR LED	32 pcs, 850nm
	Night Vision Distance	20-30 meters
	IR Cut Filter	Yes
General	Power Supply	DC 5V/2A
	Working Environment	-10~+60℃ / Less than 95% RH
	waterproof	IP66
	Dimension	Ø67mm×168mm
	Weight	0.39kg

4. QUICK SETUP

4.1 Connect the NVR



Note:

- a) Before using the equipment, please confirm the Router is open DHCP service (Generally, the Router is open DHCP service automatically) .
- b) Camera must be installed within the valid transmission distance to ensure the LCD NVR can receive the stable and clear image from the cameras.

4.2 Connect the Camera



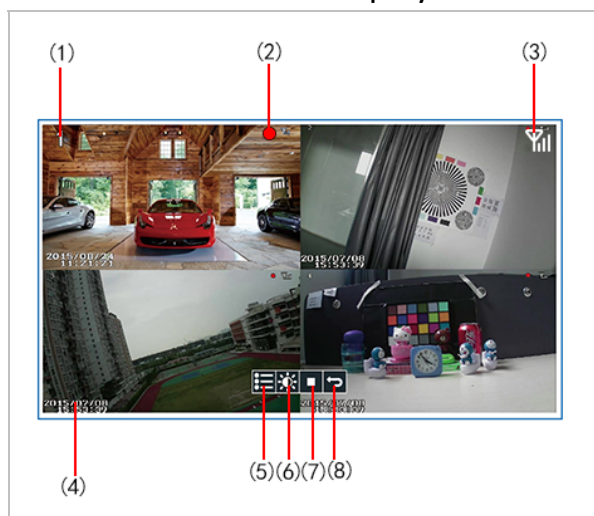
- a) Install the antenna to cameras
- b) Connect all cameras to AC/DC adapter, plug the AD/DC adapter into wall AC outlet.
Signal LED in front of the camera indicates signal condition.
 - 1) BLUE steady ON – Signal is high
 - 2) BLUE flashing - Signal is medium
 - 3) RED steady ON - Signal is low

Note:

All LEDs will be turned OFF after 1 minute.

4.3 Live View Video Monitoring

4.3.1 On-Screen Display



- (1) Camera channel No#
- (2) Recording in progress
- (3) Wireless signal
- (4) Time / Date Stamp
- (5) Main menu
- (6) Brightness
- (7) Record (# No hard drive, can not record)
- (8) Return

(A) 1-Channel ZOOM In ↔ 4-Channel Preview

- *In Live View mode / Record mode / Video file playback mode, point & click LEFT mouse button to zoom in single channel. In zoom-in mode, LEFT-click mouse again to restore 4-channel view.
- *In front panel keypad and IR remote controller, press [CH] button to display single channel & 4T mode in sequence.
4T mode → CH1 → CH2 → CH3 → CH4 → 4T mode → CH1

Note:

Zoom-in function is not available when playback file during recording.



(B) Start/Stop Recording

In live view mode, Press [ENTER] button or use mouse toolbar to start video recording. A RED dot Appears in top right-hand corner of each camera channel. Press the button again to stop video recording



Note:

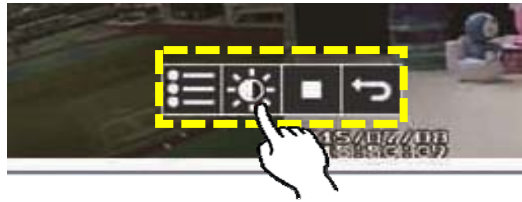
If the NVR does not receive video signal from ALL 4 cameras due to certain reasons (e.g. power lost, signal too weak, ...etc), the NVR will reboot every 10 minutes trying to restore video connection from the cameras.

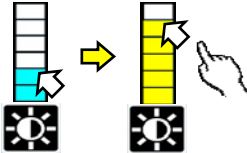
When the NVR is recording video, user can still use the following MENU functions:

Menu Icon	Description	Functions Accessible
	Camera Setting	• Activation – Camera ON/OFF only • Change brightness • Change motion detect sensitivity
	Record Setting	• Change record file duration (1 / 2 / 5 minutes) • Set date stamp ON/OFF • Set HDD Loop recording ON/OFF
	Event Trigger Setting	• Edit trigger events
	System Setting	• Change power saving time (No saving, 2 / 5 / 10 minutes)
	Event List	• Playback video files • Delete video files

Live View Mode

In Live View mode, move near bottom-center of the screen activates the Live View Quick Toolbar. 4 functions available:

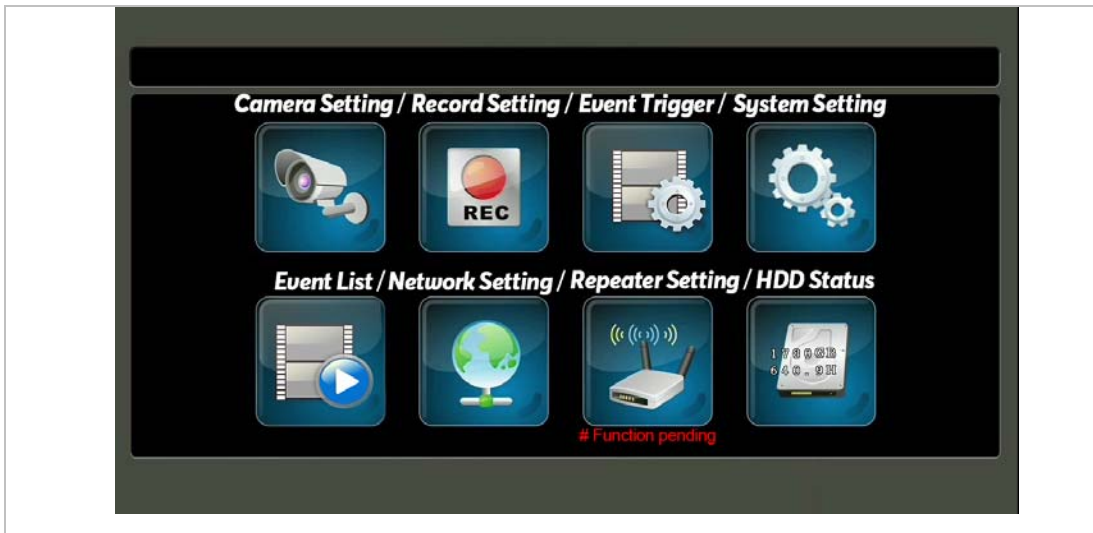


	Return the main menu [Left Click] the icon return to the main menu. 
	Brightness the icon once to select to view current brightness level bar. Move the mouse cursor up/down the bar to adjust brightness and [Left Click] again to confirm changes 
	Start/Stop Recording [Left Click] once to toggle Recording Mode on or off.  Click to start  Click to stop
	Return

5. MENU OPERATION

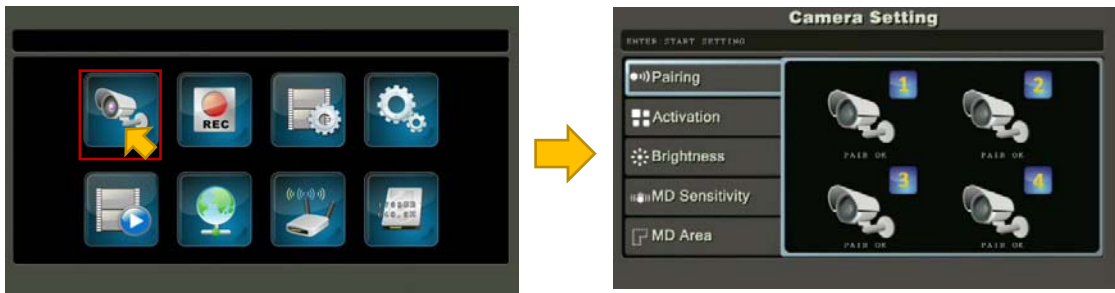
5.1 Main Menu

- Use [UP / DOWN / LEFT / RIGHT] buttons to select functions, then press [ENTER] button;
- Move mouse cursor to function icon, left-click mouse button to enter menu.



5.2 Camera Setting

- (a) Pairing
- (b) Activation
- (c) Brightness
- (d) Volume
- (e) MD Sensitivity
- (f) MD Area

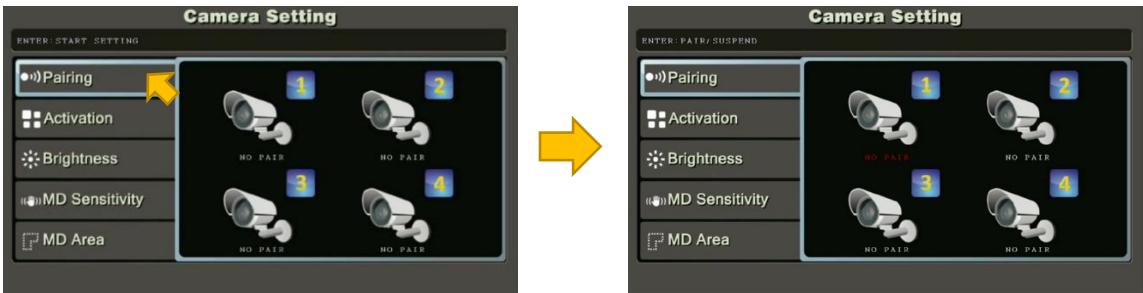


5.2.1 Pairing

Register camera to NVR to transmit Live Video.

Label under camera icons:

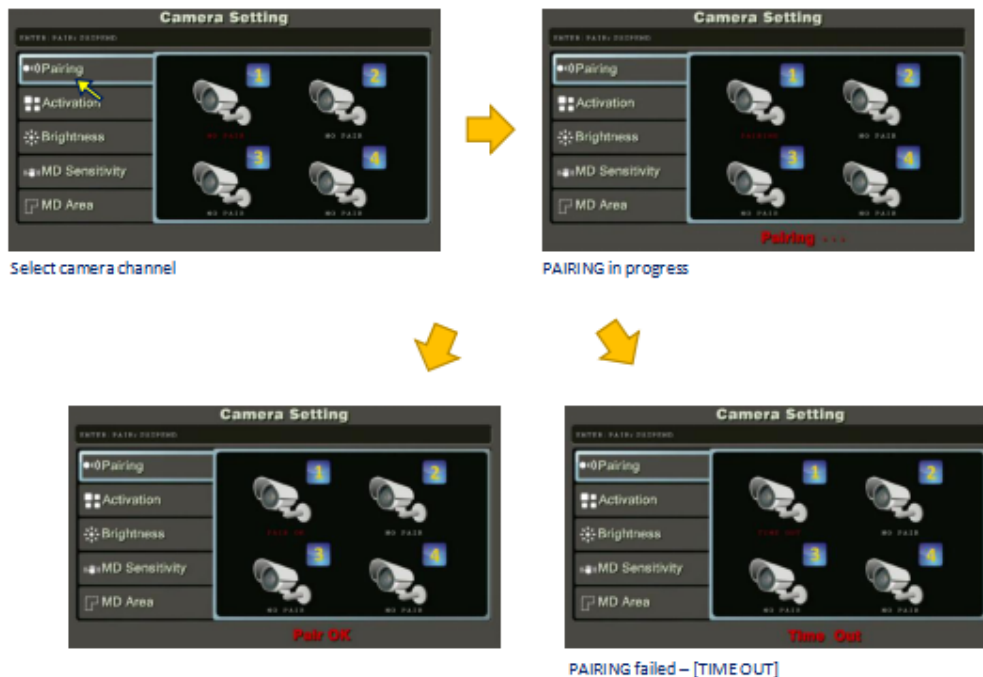
- **NO PAIR** – This camera channel is available for pairing
- **PAIR OK** – This camera channel is registered with a camera
- **PAIRING** – Pairing in progress
- **TIME OUT** – Pairing failed. Please check camera and try again



Pairing the camera:

1. Press [ENTER] button to start. By default, camera channel 1 is selected (RED colour).

2. Use UP / DOWN / LEFT / RIGHT] key to select a camera channel
3. Select **NO PAIR** channel to add a new camera; OR
4. Select **PAIR OK** channel to replace current camera
5. Make sure the camera is connected to power source – Power LED turns RED, then BLUE signal LED ON or Flashing. Press [ENTER] key to start pairing. Label changes to **PAIRING**
6. Now press the camera “Pairing” button (See section 1, camera image) to pair with the NVR
7. When pairing succeeds, label changes to **PAIR OK**
8. If pairing fails, label changes to **TIME OUT**. Then user has to check again the camera and the NVR condition.



Note:

- During first pairing, the camera registered to channel 1 will be camera #1, to channel 2 will be camera #2... and so on
- If camera is paired to replace existing camera, the existing camera will become non-paired and lose pairing information
- If existing camera is paired to another channel, the original channel will become NO PAIR

5.2.2 Activation

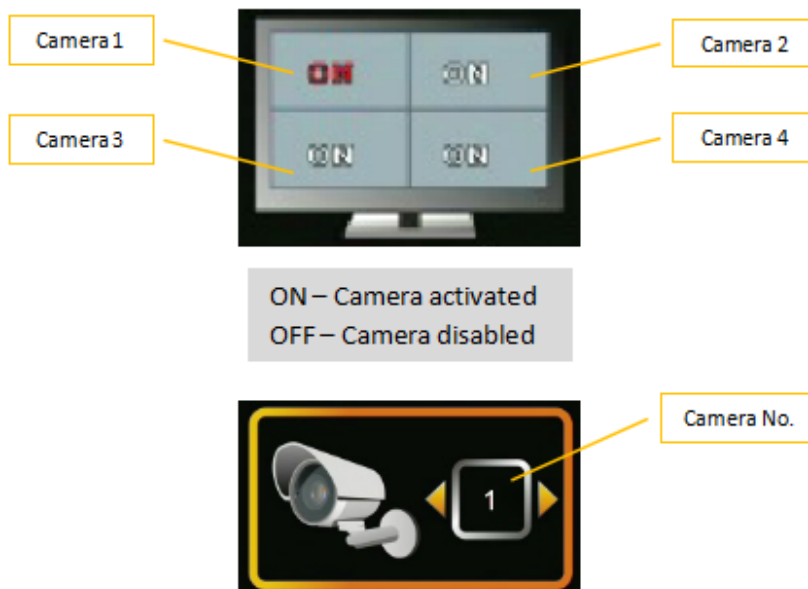
- Activate/disable individual camera
1. Press [ENTER] button to start.



LEFT] / [RIGHT] select



2. 1. Press [ENTER] button to start.

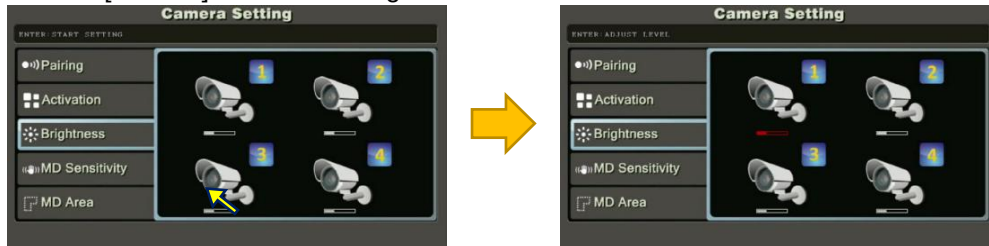


3. (a) Activate/disable camera
Use [LEFT / RIGHT] button to select channel. Press [ENTER] button to toggles between <ON> and <OFF>. Channels disabled will NOT video to NVR.

5.2.3 Brightness

Adjusts individual camera Live View screen brightness.

1. Press [ENTER] button to start. Camera channel 1 is selected.
2. Use [UP / DOWN / LEFT / RIGHT] buttons to select target camera with level bar turns RED
3. Press [ENTER] button to change level from 1 to 5. Default level is 3.



Press [ENTER] button to change

5.2.4 Volume

Not implemented in demo NVR

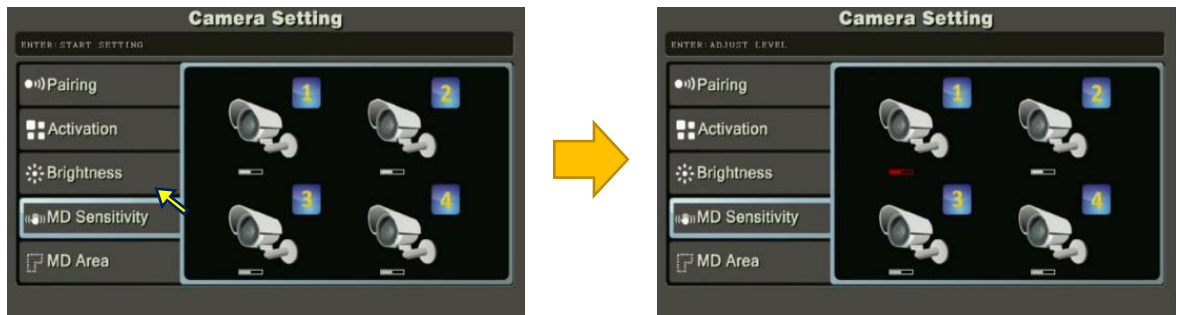
Adjusts individual camera audio level.

1. Press [ENTER] button to start. Camera channel 1 is selected
2. Use [UP / DOWN / LEFT / RIGHT] buttons to select target camera with level bar turns RED
3. Press [ENTER] button to change level from 0 to 5. Default level is 3.

5.2.5 MD Sensitivity(Motion Detect Sensitivity)

Adjusts individual camera's Motion Detect Sensitivity level.

4. Press [ENTER] button to start. Camera channel 1 is selected
5. Use [UP / DOWN / LEFT / RIGHT] buttons to select target camera with level bar turns RED
6. Press [ENTER] button to change level from 1 to 5. Default level is 3.



Press [ENTER] button to change value

5.2.6 MD Area (Motion Detect Area)

Select motion detection region. By default, the sensor will evaluate full screen pixels to calculate potential movement.

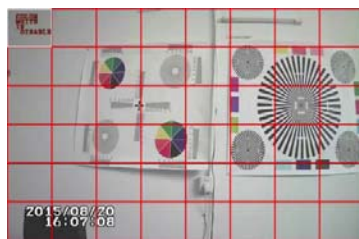
To change motion detection area:

1. In "Camera Setting" menu, select "MD Area" and press [ENTER] button
2. Use [UP / DOWN / LEFT / RIGHT] buttons to select target camera with RED square frame
3. Use [UP / DOWN / LEFT / RIGHT] buttons to select region to be disabled.
4. Selected area will change to WHITE square. All WHITE areas are IGNORED during motion detection.

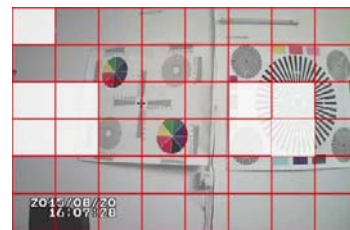
5. Press [MENU] to exit



Select target camera



Default – FULL screen check for

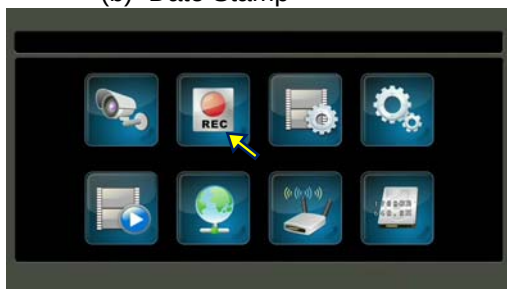


Disable motion detect by highlighting area to WHITE

5.3 Record Setting

- (a) Record Time
- (b) Date Stamp

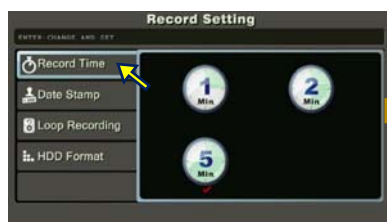
- (c) HDD Overwrite
- (d) HDD



5.3.1 Record Time

Recorded video is sliced into smaller video files for better storage management. Default value is 5 minutes for each file.

1. Press [ENTER] button to start
2. Use [UP / DOWN / LEFT / RIGHT] button to select file length
3. Press [ENTER] button to confirm or [MENU] button to exit



Default duration – 5 minutes



Change duration and press [ENTER] to confirm

5.3.2 Date Stamp

Enable/disable “Date/Time” stamp on Live View screen. Default is “ON”, date and time are shown at the lower left corner of each camera channel.

To change the setting:

1. Press [ENTER] button to go into “Date Stamp” menu. Default value in “ON” marked with RED tick under the ON label
2. Use [LEFT / RIGHT] button to select turn “ON” or “OFF” date stamp in Live View, press [ENTER] again to confirm changes
3. Press [MENU] to exit



5.3.3 Loop Recording

Set to enable/disable HDD video loop recording. When the internal hard drive is full during video recording, the NVR will delete oldest files to release HDD space.

1. Press [ENTER] button to go into “Loop Recording” menu. Default value in “ON” marked with RED tick under the ON label
2. Use [LEFT / RIGHT] button to select turn “ON” or “OFF” loop recording, press [ENTER] again to confirm changes
3. Press [MENU] to exit



5.3.4 HDD Format

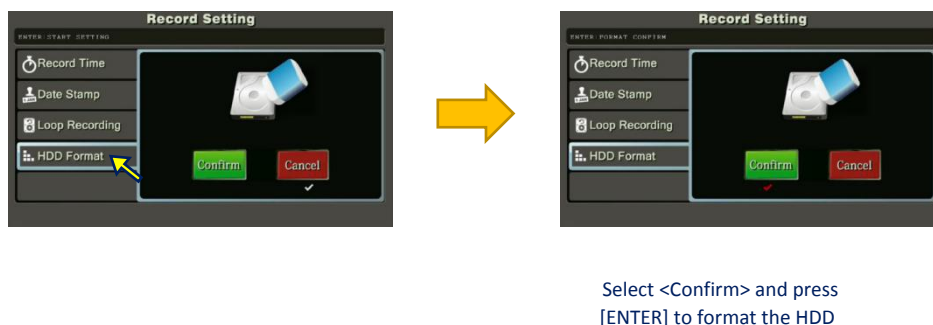
This function formats the internal hard disk drive.

- (a) Press [ENTER] button to go into “HDD Format” menu
- (b) Select “Confirm”, press [ENTER] button to start formatting the hard disk drive.

Note:

- (1) **MUST format a new installed HDD in the NVR before using it to record video**
- (2) **MUST use a 7200rpm HDD with at least 32MB internal cache**

CAUTION: All data in the hard disk drive will be erased and cannot be recovered.



5.4 Record Trigger Setting

User can set 2 different types of recording trigger. Triggers are set per daily basis.

- SCHEDULE
 - o Record video according to preset time slot
- MOTION
 - o During the preset time slot, start record video ONLY when motion is detected. Record time is set in "RECORD TIME" menu with 1, 2 or 5 minutes

There are 4 trigger event slots. User simply set "START time", "END time" and "TRIGGER mode" step by step to activate event trigger video recording.



1. By default, the first (top) event slot is selected. All 3 columns of the event slot in RED.



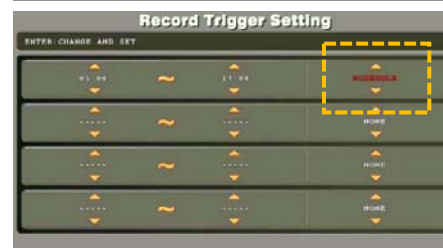
2. Press [ENTER] to start setting, first column <START time> is highlighted in RED. Use [UP / DOWN] button to adjust record start time in one-hour step. Use [LEFT / RIGHT] to move between columns. For example, move right to <STOP time>



3. Use [UP / DOWN] button to adjust record stop time in one-hour step. Move RIGHT to <TRIGGER mode>



4. Use [UP / DOWN] button to select trigger method – SCHEDULE or MOTION. Or select NONE to disable recording in preset period.



- After setting all 3 columns, press [ENTER] to confirm settings.



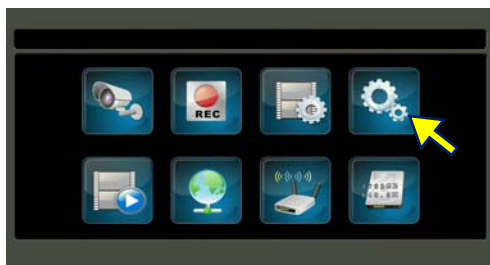
DELETE preset trigger

Use [UP / DOWN] button to select event slot, then press [LEFT] button followed by [ENTER] button to confirm deletion.

5.5 System Setting

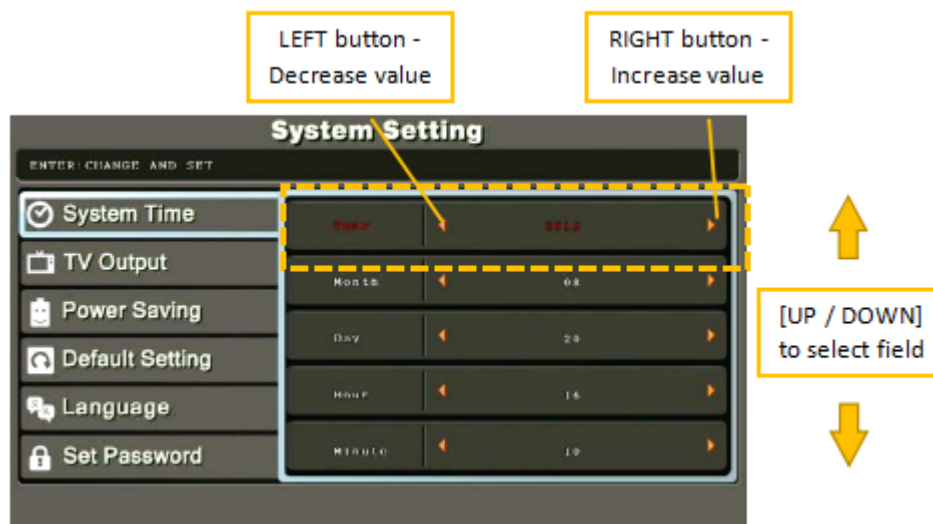
- Time Setup
- TV Output
- Power Saving

- Default Setting
- Language Setting
- Set Password



5.5.1 Time Setup

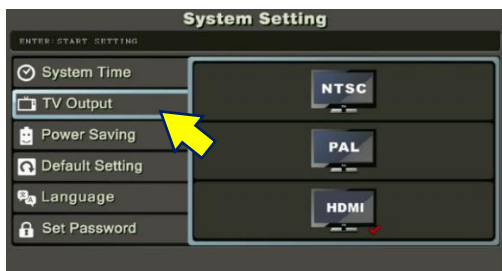
- Press [ENTER] button entering "Time Setup" menu
- Use [LEFT / RIGHT] button to adjust value, and [UP /down] button to select "Year" "Month", "Day", "Hour", "Minute"
- Press [ENTER] to confirm change and exit



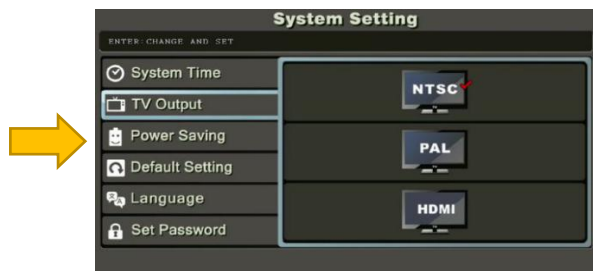
5.5.2 TV Output (Analog Video / Mono Audio Out)

User can connect the NVR to a device with Analog Video input

1. Press [ENTER] button entering "TV Output" menu. Default output is "HDMI"
2. Use [UP / DOWN] button to select NTSC or PAL analog video out
3. Press [ENTER] to switch to analog video output
4. Check video is properly display on composite video device, press [ENTER] button again to confirm changes.



Default – HDMI output

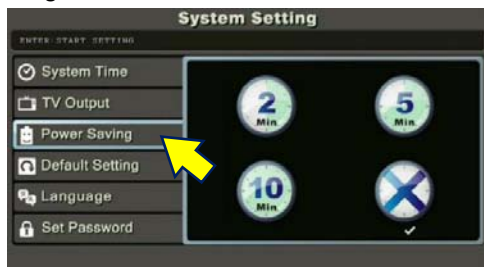


Select NTSC/PAL, Press [ENTER] to confirm

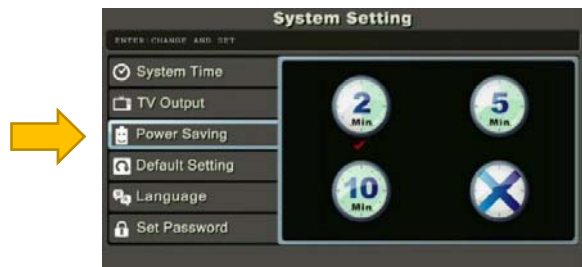
5.5.3 Power Saving (Turn OFF video Out put)

1. Press [ENTER] button entering "Power Saving" menu. Default is NO POWER SAVING
2. Use [UP / DOWN / LEFT / RIGHT] button to select screen off time
3. Press [ENTER] button to confirm.

When video signal is disabled, user can press any key to enable video output again



Default – NO power saving



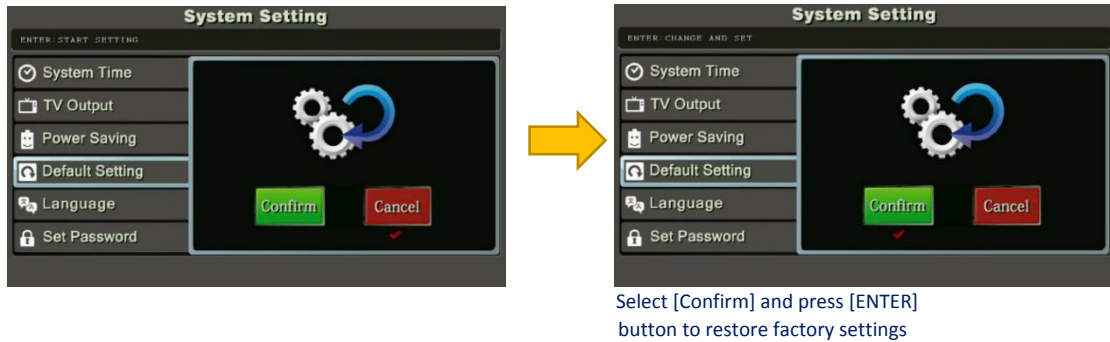
Change power saving time, press [ENTER] to confirm

5.5.4 Default Setting

This option restores factory setting.

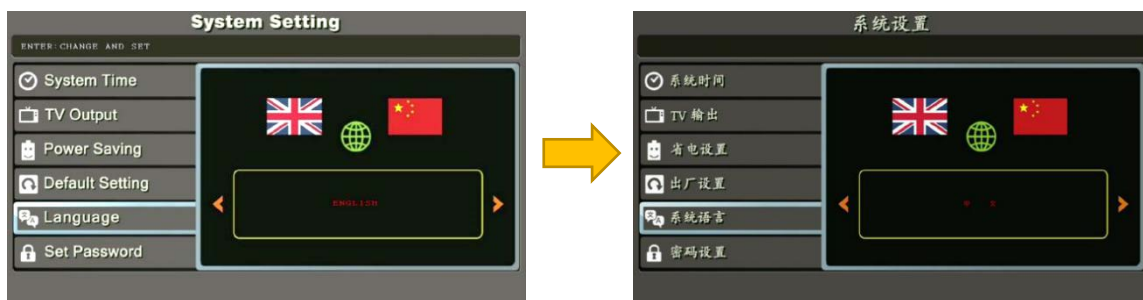
1. Press [ENTER] button start setting. Default value is <CANCEL>
2. Use [LEFT / RIGHT] to select <Confirm>
3. Press [ENTER] button to confirm factory setting restore, or [MENU] button to exit.

CAUTION: All camera will become NOT PAIRED after restoring default settings, user must redo pairing to receive video transmission



5.5.5 Language Setting

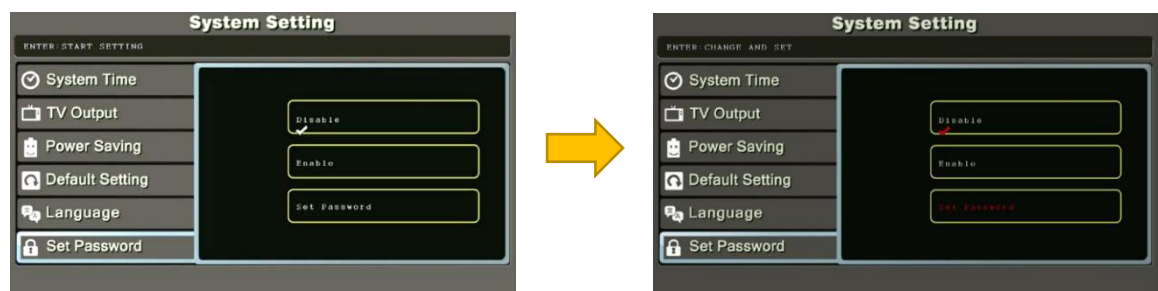
Change the system language. Current demo NVR supports English and Simplified Chinese. Other language pack can be added as option.



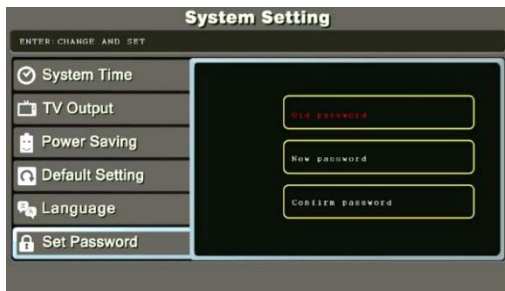
1. Press [ENTER] button to start setting
2. Use [LEFT / RIGHT] button to select target language
3. Press [ENTER] button to confirm change and [MENU] to exit

5.5.6 Set password

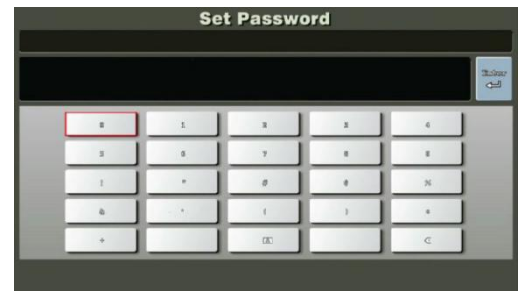
Create/change password to control access to Main Menu. Default password is "00000000"



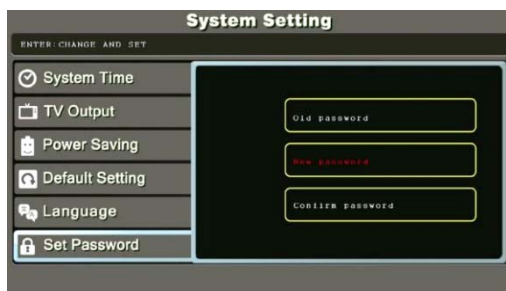
- (1) Press [ENTER] button to start. By default, PASSWORD function is disabled
- (2) Select "Set Password" and press [ENTER] button.



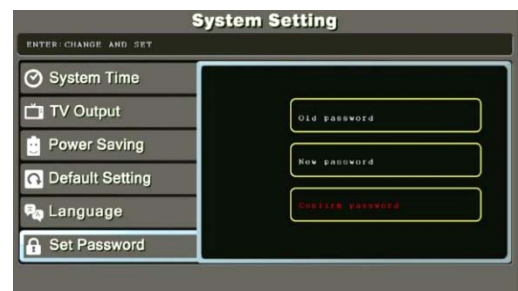
(3) Select "Old password" and press [ENTER] button.



(4) Enter previous password. For first time setting, the default password is "00000000", then move the selection cursor to "ENTER" icon on the right side, press [ENTER] button to confirm.



(5) Next enter the NEW password



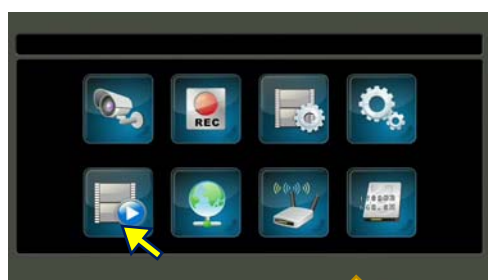
(6) Finally, enter the NEW password again to confirm changes.

5.6 Event List

User can manage stored video file with this function.

- (1) Browse video files
- (2) Playback video
- (3) Export files to SD card
- (4) Delete video files

Note: During recording, user may not see the current recording file in the event list

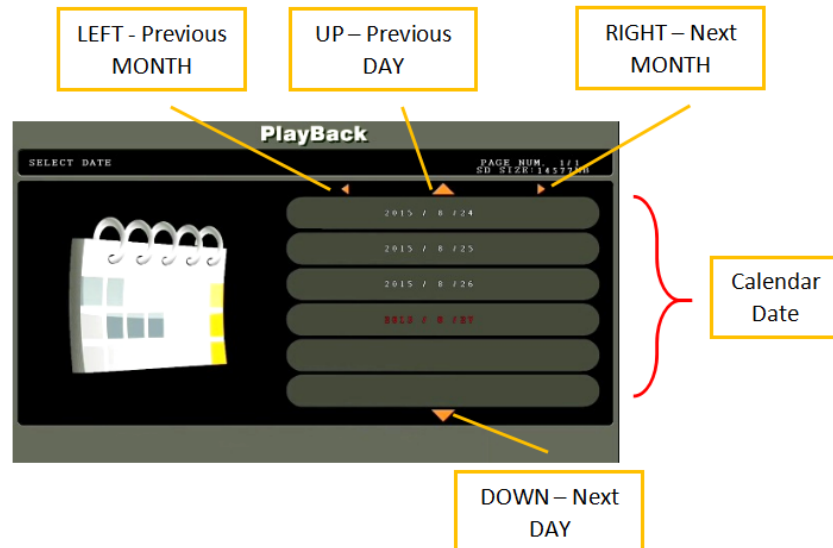


PAGE NUM. # / #
→ calendar day listed in descending order
SD SIZE: xxxxx MB
→ Available capacity in micro SD card

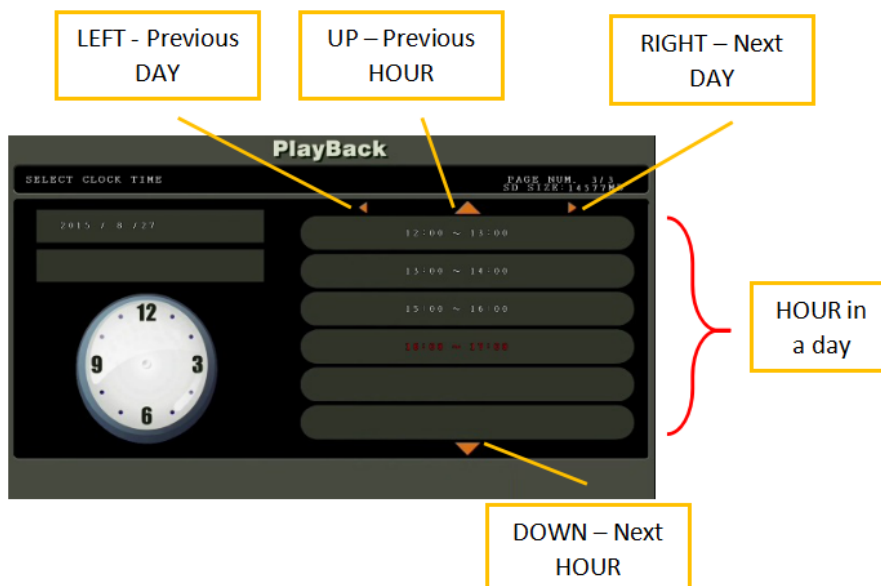


5.6.1 Browse video files

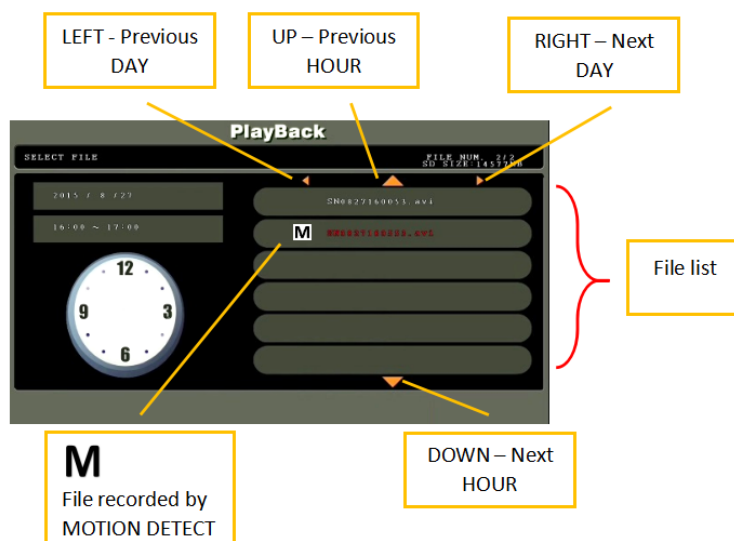
1. Press [ENTER] button to start browsing
 - a. Use [LEFT / RIGHT] button to select date
 - b. Use [UP / DOWN] button to select day. Highlighted in RED.
 - c. After selection, press [ENTER] to time slot list; OR [MENU] to exit



2. Next menu is hourly time slot list
 - a. Use [LEFT / RIGHT] button to select day
 - b. Use [UP / DOWN] button to select hour in a day. Highlighted in RED.
 - c. After selection, press [ENTER] to file list; OR [MENU] to exit

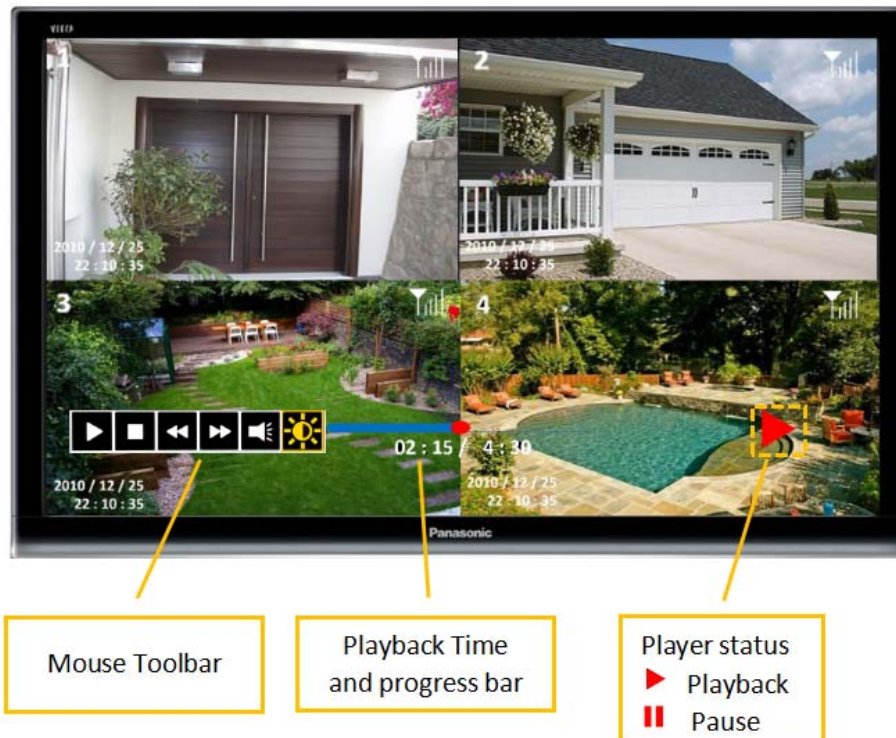


3. Next menu is video file list
 - d. Use [LEFT / RIGHT] button to select hour in a day
 - e. Use [UP / DOWN] button to select file. Highlighted in RED.
 - f. After selection, press [ENTER] to start playback; OR [MENU] to exit



Video file name format: **SNMMDDhhmmss.avi**

- SN – file name header
- MM – Month (1 to 12, e.g. 04 = April)
- DD – Day (1 to 31)
- hh – Hour in a day (00 to 23)
- mm – Minutes (00 to 59)
- ss – Seconds (00 to 59)
- .avi – file extension



5.6.2 Delete Video file

1. Browse the file list
2. USE MOUSE TOOLBAR
 - Move the mouse pointer to the right of the filename, mouse toolbar appears
 - Left-mouse click the [DELETE] icon  in toolbar on the right side of the filename.
 - Click  to confirm delete file.

#Note: All files deleted cannot be recovered.

5.6.3 Export video file to TF Card

1. Browse the event file list, select a file to export. Selected item is highlighted in RED



2. USE MOUSE TOOLBAR
 - Move the mouse pointer to the right of the filename, mouse toolbar appears
 - Left-mouse click the [SD VIDEO EXPORT] icon  in Mouse Toolbar on the right side of the filename.
 - Click  to start file export

#Note:

- * Video files are exported in AVI format in 4 separate files corresponding to 4 camera channel. File suffix "~1", "~2", "~3", "~4" are added to the files indicating camera channel. e.g. SN1231090000~1.avi → December 31, 09:00:00am, Camera #1
- * Support maximum 32GB micro-SD card (FAT32 format)

5.6.4 Format TF card

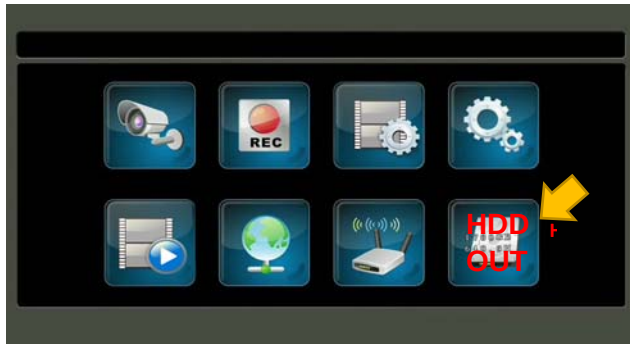
1. Go to [EVENT LIST] menu
2. USE MOUSE TOOLBAR
 - Move the mouse pointer to the right of the filename, mouse toolbar appears Left-mouse click the [TF FORMAT] icon  in Mouse Toolbar on the right side of the filename.
 - Click  to confirm SD card format

Note: All data in micro SD card will be deleted and cannot be recovered.

5.7 HDD Capacity

The status of internal hard disk is displayed in the icon

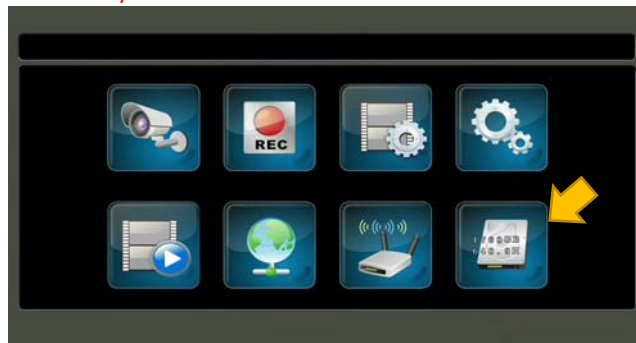
1. When NO hard disk drive is detected, "HDD OUT" is displayed



2. When hard disk drive is detected and file system valid, it shows:

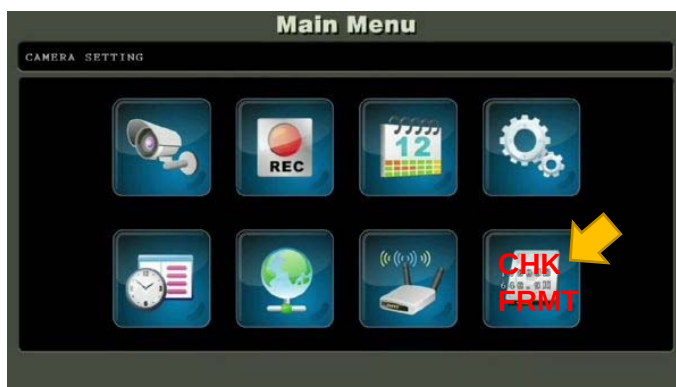
- a. Remaining storage capacity
- b. Estimated remaining recording time

#Note: Recording time depends on various factors, the remaining time may differ during actual operations



2. When hard disk drive file system is not recognized, it shows “CHK FRMT” means to check HDD format.

- a. Try to reboot the NVR; or
- b. Reformat the hard disk

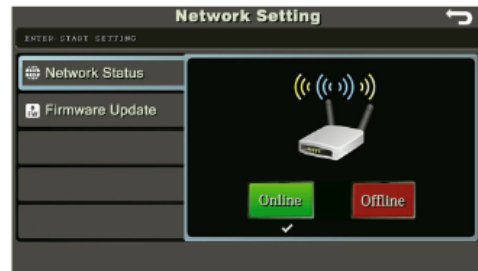


5.8 Network Function

(a) Online Status



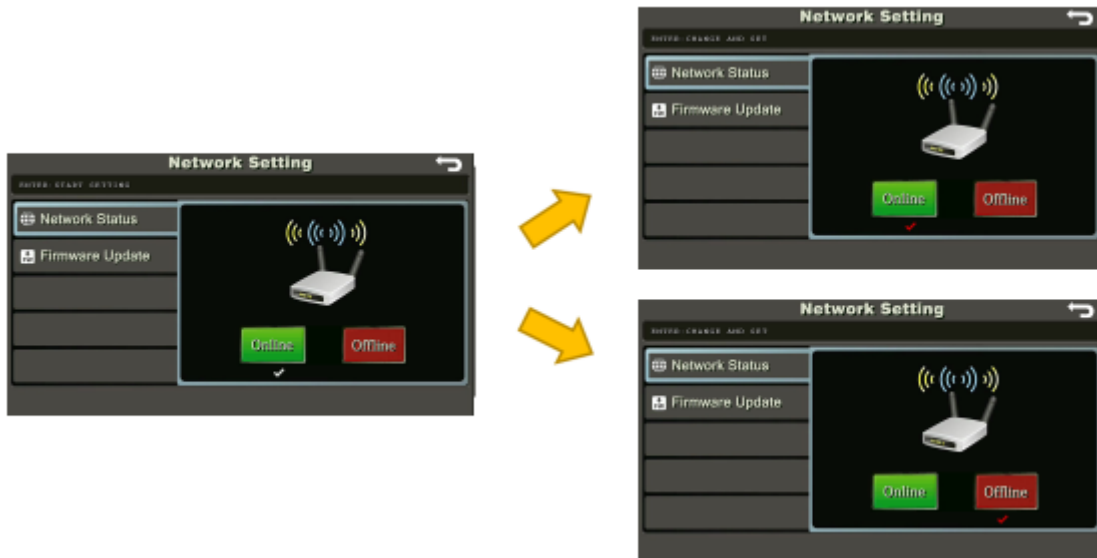
(b) Firmware Upgrade



5.8.1 Network Status

Activate or disable the network link for remote access.

1. Press [ENTER] button entering "Online Status" menu. By default, the NVR is in "ONLINE" status
2. Use [LEFT / RIGHT] buttons to change the status
3. Press [ENTER] button to confirm change; OR [MENU] button to exit



#Note: When the NVR is OFFLINE, user will not be able to remote access NVR

5.8.2 Firmware Update

To update the firmware of NVR or camera unit

1. Insert a Micro SD card containing new firmware (BIN format) into the card slot at the back panel of the Receiver.

Name	Description
TX.BIN	Camera Unit firmware
RX.BIN	NVR firmware
98600.BIN	Network firmware

2. Press [ENTER] to go into the "Firmware Update" menu. Firmware version information will be shown on right-hand side of the screen. For example,
3. Use [LEFT / RIGHT] buttons to select to update NVR/P2P (left hand side NVR image) or Camera (right hand side camera image).

```

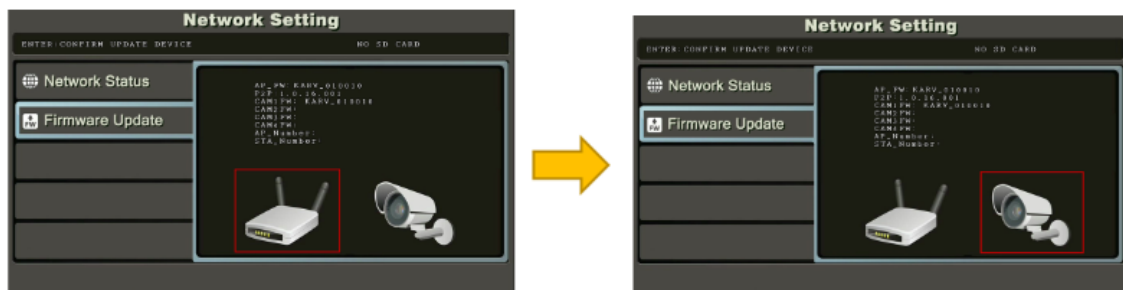
NVR: KARV_022700
P2P: 1.00.09.02
CAM #1: KARV_022700
CAM #2: KARV_022700
CAM #3: KARV_022700
CAM #4: KARV_022700

```

4. Press [ENTER] to start update.

Note:

Firmware update may take few minutes. After firmware update, user may check the firmware version of each unit to confirm whether update succeed.



6. MOBILE APPS “Kalay Cam” by TUTK

Kalay Cam supports both iOS & Android OS.

Note:

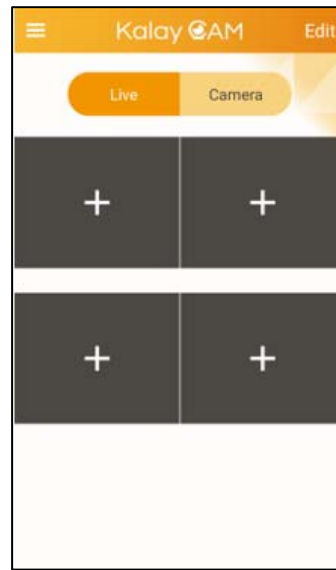
- (i) Connect the NVR to a router with LAN cable
- (ii) For the first time to register the NVR to the P2P server, connect the smartphone's WIFI to the same router
- (iii) Make sure P2P connection is not blocked by router setting, network flow control, firewall...etc.
- (iv) For better user experience, recommend to close other smartphone background applications

1. Go to Apple AppStore or Android Google Play and download “Kalay Cam”
2. After installation, click Kalay Cam icon to start





Start Up Screen

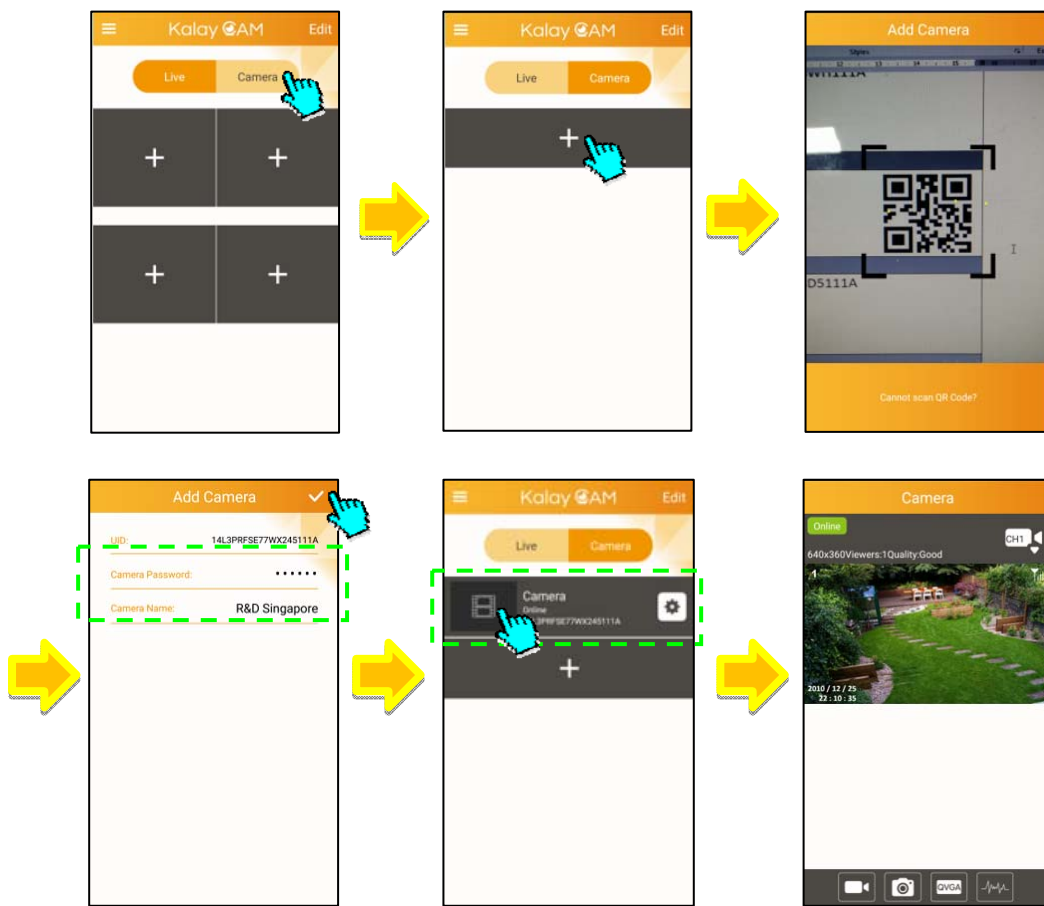


Main Page

6.1 Quick NVR Setup using Kalay Cam

1. In MAIN PAGE, 2 modes – LIVE and CAMERA – are available. Default is LIVE mode
2. Click [CAMERA] to Camera mode screen
3. Then click [+] sign to add NVR. Maximum allow user to add 4 NVRs.
4. Scan QR-code containing UUID
5. Enter the password. User may also change the name of the NVR for easy identification.

Note: Default password is "888888"; Default name is "Camera"



6. Wait the APP search for camera and adds to the device list
 7. Click the LEFT-side of added camera to start Live View.
- Note: Camera #1 of NVR is displayed by default
8. Rotate smartphone 90 to view in landscape mode (Full Screen)
 9. Zoom & Pan
- In both portrait & landscape mode, user can zoom and pan video

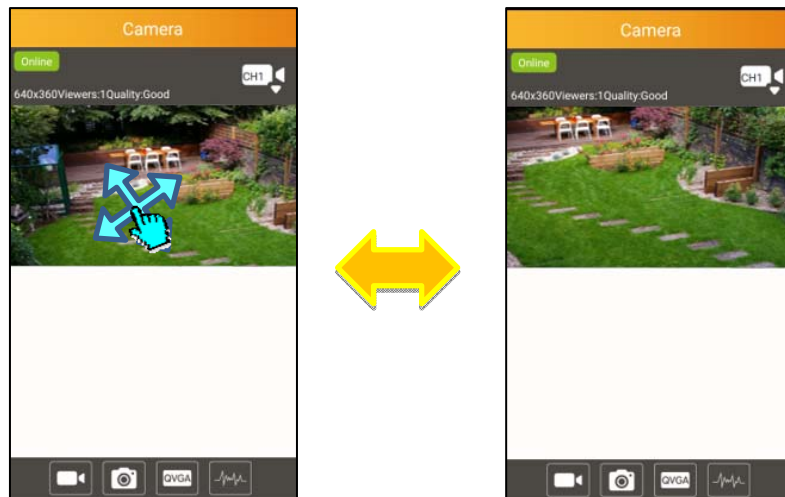
Zoom



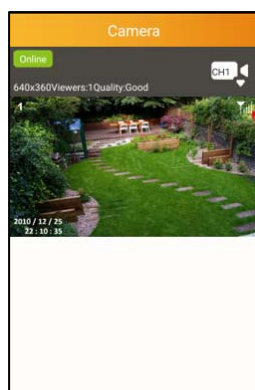
Use 2-points finger slide motion to zoom in/out video screen

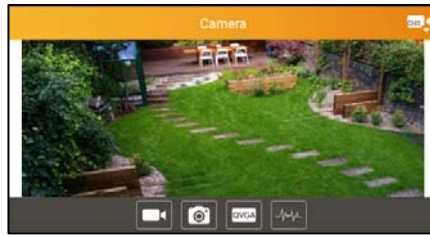
Pan

After zoom in, swipe on the display to pan the video

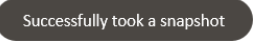


6.2 More functions in CAMERA mode





In Landscape mode, CLICK screen once for the MENU bar

	Channel Select • By default, camera #1 is displayed when NVR is added • User can view another channel of the NVR - o Click [Channel Select] icon to get the channel drop list - o Click the desired channel to change the Live View channel display	
 	Video Record • Click  to START; or click  to STOP video recording • Record duration is shown on screen  • Video are stored locally in smartphone's memory storage with directory named as "/Record"	
	Snapshot • Click to take a snapshot • Toast message box indicates snapshot taken OK  • Photos are stored locally in smartphone's memory storage with directory named as "/Snapshot"	
	Video Quality • Click to select video quality • Select [HIGH] for 1280x720; or Select [LOW] for 640x360	

	Environmental Frequency Click to change environmental frequency according to local standard – 50Hz or 60Hz	
---	--	---

6.3 LIVE mode setting

- Kalay Cam starts at LIVE mode by default
 - In CAMERA mode device list, click [LIVE] tag goes back to LIVE mode
- In LIVE mode screen, camera windows are arranged in pages. Each time when 4 windows in 1 page are all occupied, new page is automatically created, swipe LEFT/RIGHT to see windows in other pages.



Add NVR to LIVE mode window

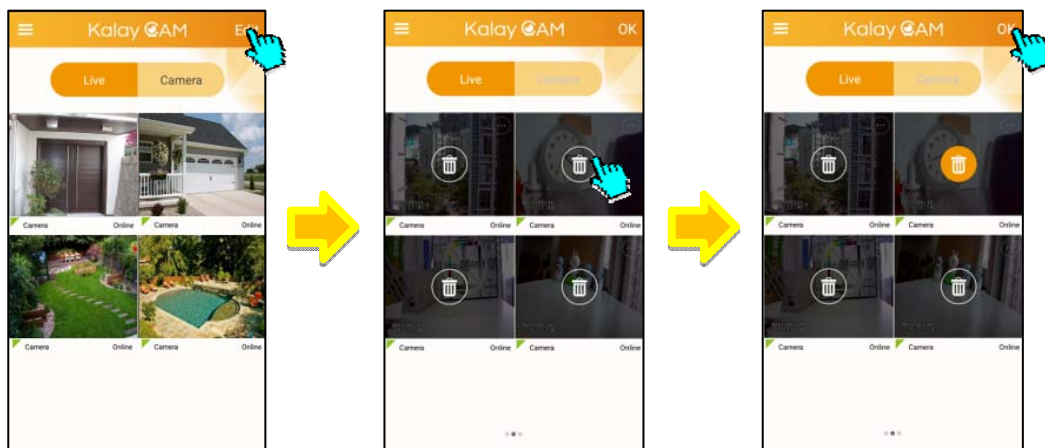
- Each time user adds a new NVR, Kalay Cam automatically adds the camera to the first available window. For example, in above image, windows #2 is empty, when user adds a new NVR, it will be added to windows #2.
- Manually adds a NVR's camera
 - Click on an empty window for the Camera List (NVR List)
 - Click the camera icon (Top Right corner) and select one of the 4 camera of the NVR
 - Click OK to add the camera to the window



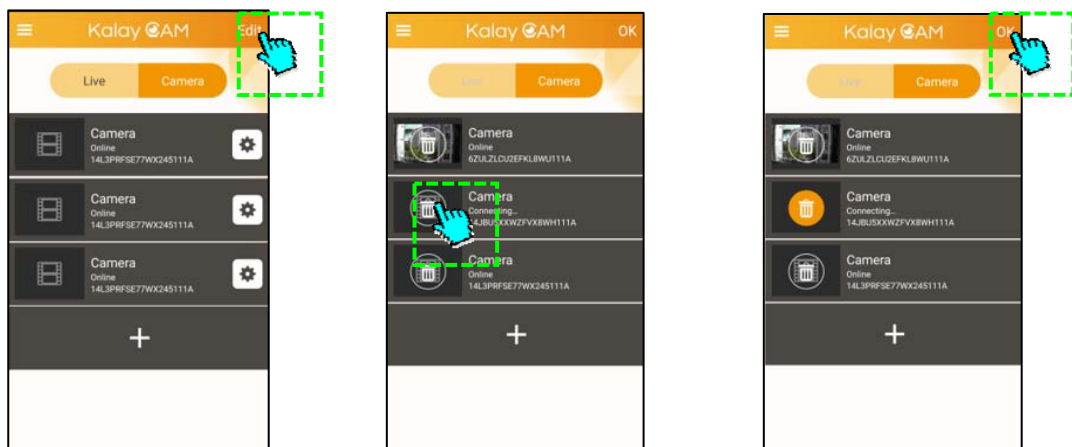
Remove NVR from APP

1. In LIVE or CAMERA mode, click [EDIT] at TOP-RIGHT corner
2. Select one of the window or camera
3. Click the recycle bin icon
4. Click [OK] to remove

Live Mode

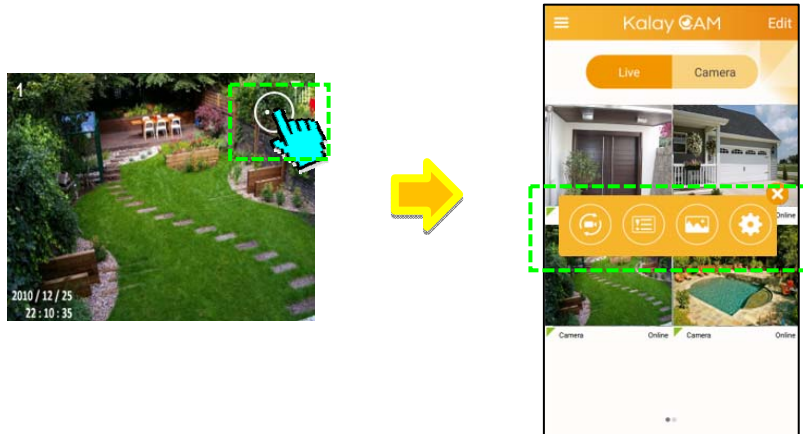


Camera Mode



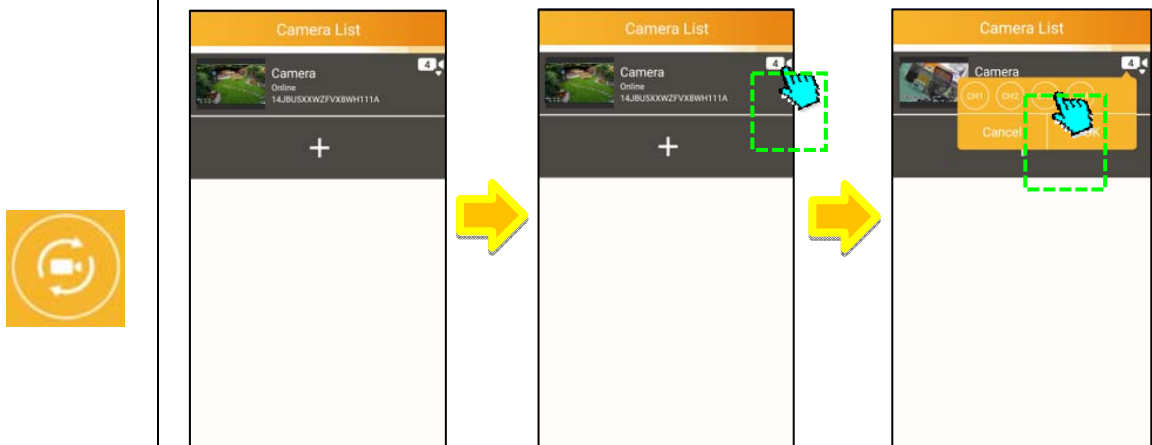
Other Window Menu Functions

Click the MENU icon (Top Right corner) of each camera windows for the Camera Window Menu



Change Camera

- Click for the Camera List (NVR list)
- Click on the Camera icon (Top right corner) of the desired NVR
- Select desired camera channel, then click [OK] to change

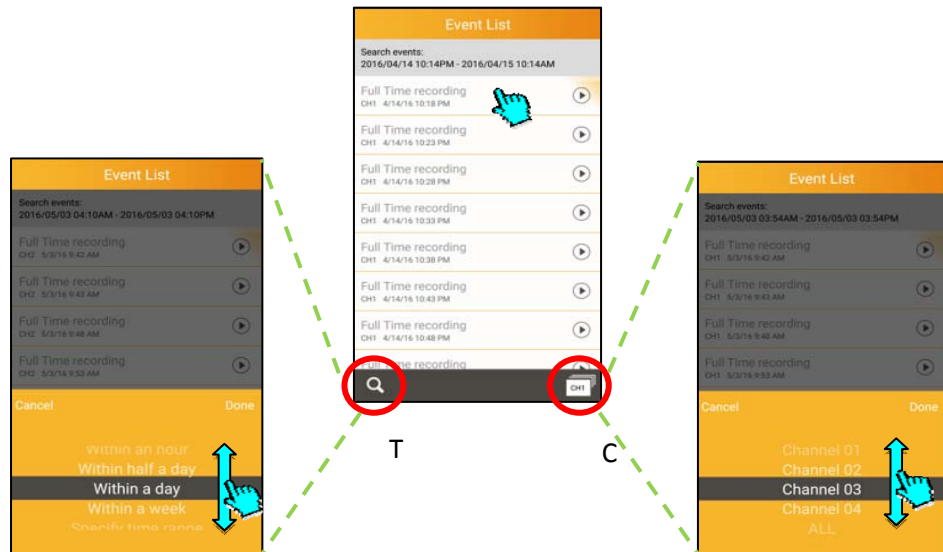


Note: User may assign the current window

- To another camera of the same NVR; OR
- To a camera of another NVR

Event List

- Click to browse list of video file stored in NVR HDD of the selected camera channel



User may also click on the search option icons (bottom bar), 2 video files search option are available, slide up or down to select:

(1) Time search

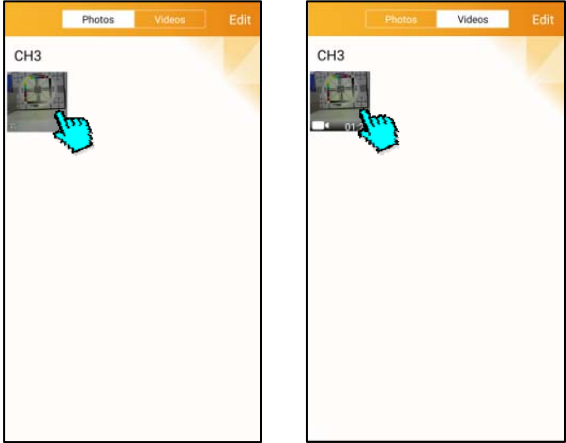
File list is filtered for time period

- Within an hour
- Within a day
- Within a week
- User specified time frame

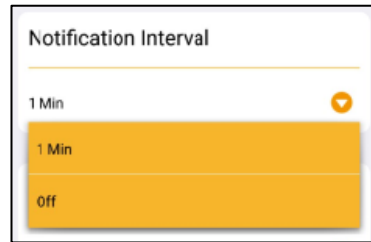
(2) Channel search

File list is filtered per camera channel basis

- Channel 1
- Channel 2
- Channel 3
- Channel 4
- ALL channels

	Local Media File • Browse media files (photos & videos) stored in smartphone - o Photos – stored in “/Snapshot” directory - o Video – stored in “/Record” directory Simply click thumbnails to view photos or video clips. Video clips can be played back both in landscape & portrait mode. 
	Camera Settings Review NVR information and various options - Camera information – UID, camera name & password(hidden)  - Change password - Simply enter Old password, New password, New password again - Click [OK] to confirm changes  - Notification Interval

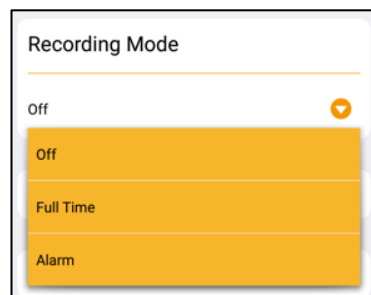
Turn notification ON or OFF



iv. Recording Mode

Select Recording Mode

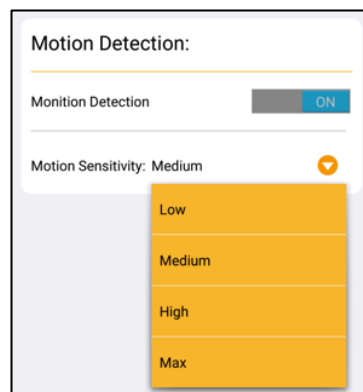
- i. Off – no recording
- ii. Full Time – Always record
- iii. Alarm – Record after motion trigger



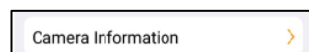
v. Event Settings

Turns Motion Detection On or Off

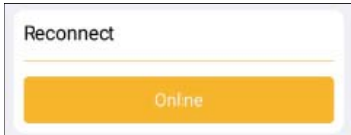
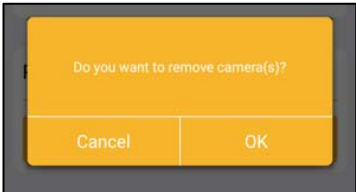
Set Motion Detection sensitivity – LOW, MEDIUM, HIGH, MAX



vi. Camera Information

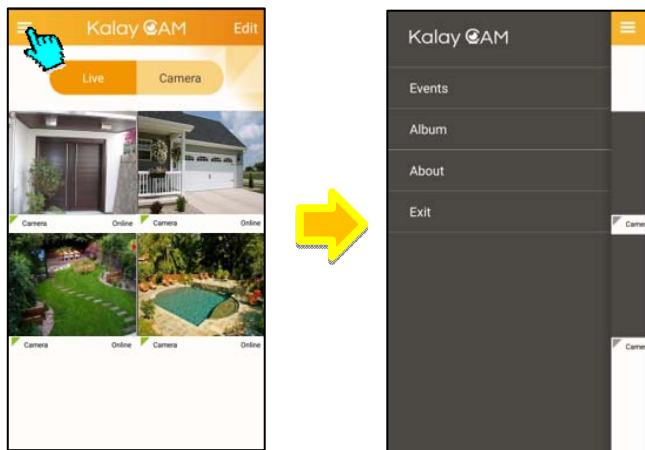


Click to display NVR information

	 Model – Main Chipset information Version – Firmware version Total Space – HDD total available capacity Free Space – HDD remaining capacity vii. Reconnect Display NVR online status – ONLINE or OFFLINE If OFFLINE, just click to reconnect again  viii. Remove this camera Delete NVR registration in the APP Click [Remove] and [OK] to confirm deletion of NVR 
--	---

Side-bar Menu

Click side-bar menu icon at TOP-LEFT corner to activate the menu

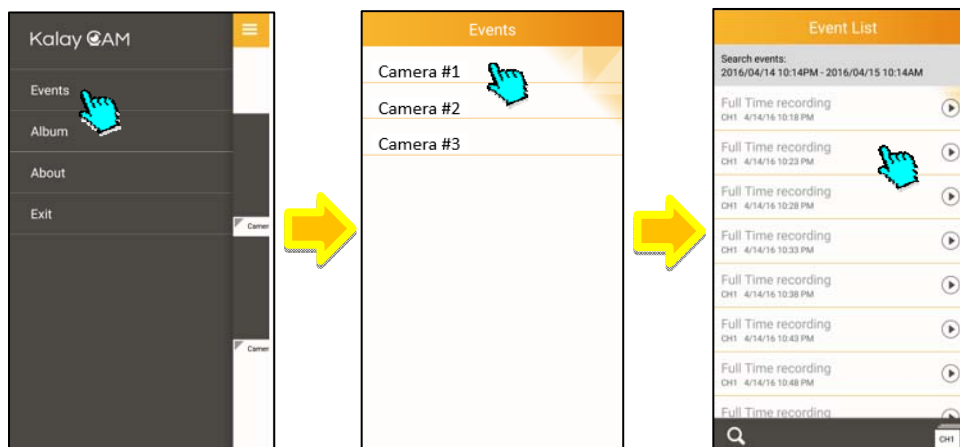


4 menu functions are available:

1. Events

Browse and playback video file stored in NVR.

- a. Click and select NVR to browse video file list
- b. Click on filename to playback video clips

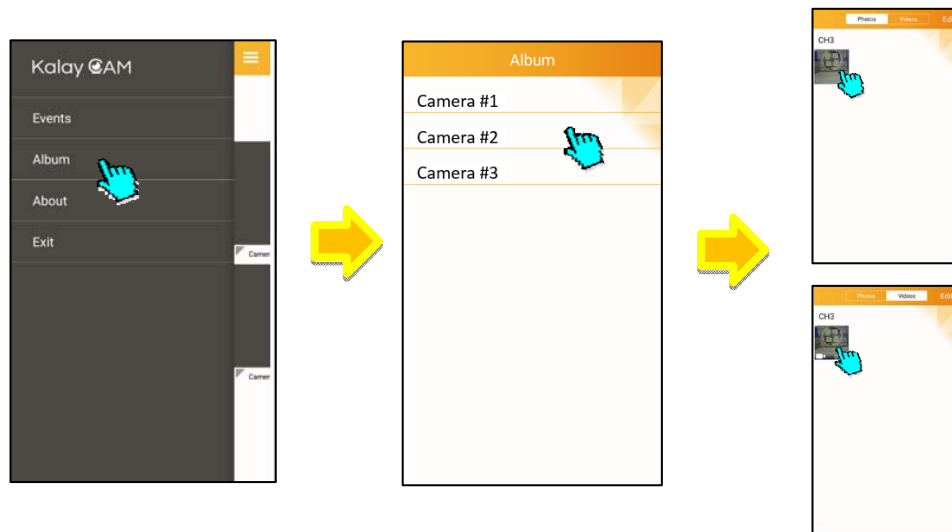


2. Album

Browse media files (photos & videos) stored in smartphone

- a. Photos – stored in “/Snapshot” directory
- b. Video – stored in “/Record” directory

Simply click thumbnails to view photos or video clips. Video clips can be played back both in landscape & portrait mode.



3. About

Display Kalay Cam version information



4. Exit

Click to close Kalay Cam.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

“To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.”

