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HD DIGITAL RECORDER

USER MANUAL

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Safety information

To prevent injury to yourself and others or damage to your device, read the safety information about your device before using the device.

⚠ **Warning**

Failure to comply with safety warnings and regulations can cause serious injury or death.

Do not use damaged power cords or plugs, or loose electrical sockets
Unsecured connections can cause electric shock or fire.

Do not touch the car charger with wet hands or disconnect the charger by pulling the cord
Doing so may result in electrocution.

Do not bend or damage the car charger
Doing so may cause electric shock or fire.

Do not use your device while it is charging or touch your device with wet hands
Doing so may cause electric shock.

Do not short-circuit the charger or the device
Doing so may cause electric shock or fire, or the battery may malfunction or explode.

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Use manufacturer-approved batteries, chargers, accessories, and supplies

- Using generic batteries or chargers may shorten the life of your device or cause the device to malfunction. They may also cause a fire or cause the battery to explode.
- Use only Maka GPS Technologies Group-approved battery and charger specifically designed for your device. Incompatible battery and charger can cause serious injuries or damage to your device.
- Maka GPS Technologies Group cannot be responsible for the user's safety when using accessories or supplies that are not approved by Maka GPS Technologies Group.

Do not drop or cause an impact to the charger or the device.

Handle and dispose of the device and charger with care

- Never dispose of the battery or device in a fire. Never place the battery or device on or in heating devices, such as microwave ovens, stoves, or radiators. The device may explode when overheated. Follow all local regulations when disposing of used battery or device.
- Never crush or puncture the device.
- Avoid exposing the device to high external pressure, which can lead to an internal short circuit and overheating.

Protect the device, battery and charger from damage

- Avoid exposing your device and battery to very cold or very hot temperatures.

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- Extreme temperatures can damage the device and reduce the charging capacity and life of your device and battery.
- Prevent the battery from coming into contact with metal objects, as this can create a connection between the + and – terminals of your battery and lead to temporary or permanent battery damage.
- Never use a damaged charger or battery.

Do not bite or suck the device or the battery
- Doing so may damage the device or result in an explosion or fire. • Children or animals can choke on small parts.
- If children use the device, make sure that they use the device properly.

Do not handle a damaged or leaking Lithium Ion (Li-Ion) battery
For safe disposal of your Li-Ion battery, contact your nearest authorised service centre

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⚠ Caution

Failure to comply with safety cautions and regulations can cause injury or property damage

Do not use your device near other electronic devices
Most electronic devices use radio frequency signals. Your device may interfere with other electronic devices.

Do not expose the device to heavy smoke or fumes
Doing so may damage the outside of the device or cause it to malfunction.

Do not use your device near devices or apparatuses that emit radio frequencies, such as sound systems or radio towers
Radio frequencies may cause your device to malfunction.

If you notice strange smells or sounds coming from your device or the battery, or if you see smoke or liquids leaking from the device or battery, stop using the device immediately and take it to a Maka Service Centre
Failure to do so may result in fire or explosion.

For your own safety, do not operate the controls of the product while driving.
Two window mounts are needed when using the recorder in a car. Make sure that you place the recorder in an appropriate place, so as not to obstruct the driver's view.
Make sure that no object is blocking the camera lens and no reflective material appears near the lens.
Please keep the lens clean. If the car's windscreen is tinted with a dark solar film coating, it may affect the recording quality.

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Do not store your device in very hot or very cold areas. It is recommended to use your device at temperatures from 0 °C to60 °C and humidity from 10% to 80%
Doing so may cause the screen to malfunction, result in damage to the device, or cause the battery to explode.

Do not use your device or applications for a while if the device is overheated
Prolonged exposure of your skin to an overheated device may cause low temperature burn symptoms, such as red spots and pigmentation.

Install mobile devices and equipment with caution
- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.
- Avoid placing your device and accessories near or in an airbag deployment area. Improperly installed wired equipment can cause serious injury when airbags inflate rapidly.

Do not drop your device or cause impacts to your device
- Your device may be damaged or may malfunction.
- If bent or deformed, your device may be damaged or parts may malfunction.

Ensure maximum battery and charger life
- Avoid charging your device for more than a week, as overcharging may shorten battery life.
- Over time, unused device will discharge and must be recharged before use.
- Disconnect the charger from power sources when not in use.

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- Leaving batteries unused over time may reduce their lifespan and performance. It may also cause the batteries to malfunction or explode, or cause a fire.
- Your device may wear out over time. Some parts and repairs are covered by the warranty within the validity period, but damages or deterioration caused by using unapproved accessories are not.

Do not disassemble, modify, or repair your device
- Any changes or modifications to your device can void your manufacturer's warranty. If your device needs servicing, take your device to a Maka Service Centre.
- Do not disassemble or puncture the battery, as this can cause explosion or fire.
- Turn off the device before removing the battery. If you remove the battery with the device turned on, it may cause the device to malfunction.

When cleaning your device, mind the following
- Wipe your device or charger with a towel or an eraser.
- Do not use chemicals or detergents. Doing so may discolour or corrode the outside the device or may result in electric shock or fire.

Do not distribute copyright-protected material
Do not distribute copyright-protected material without the permission of the content owners. Doing this may violate copyright laws. The manufacturer is not liable for any legal issues caused by the user's illegal use of copyrighted material.

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Correct disposal of this product

 (Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

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About this manual

This device provides high quality digital recording device using Maka's high standards and technological expertise. This user manual is specially designed to detail the device's functions and features.

- Please read this manual before using the device to ensure safe and proper use. Descriptions are based on the device's default settings.
- Images and screenshots may differ in appearance from the actual product.
- Content may differ from the final product, or from software provided by service providers and is subject to change without prior notice.
- For the latest version of the manual, refer to the Maka website at www.makagps.com.
- Available features and additional services may vary by device, software.
- Applications and their functions may vary by country, region, or hardware specifications.
- Maka is not liable for performance issues caused by applications from any provider other than Maka.
- Maka is not liable for performance issues or incompatibilities caused by not installing the device as stated in this manual. Attempting to customise the installation may cause the device or applications to work improperly. This may result in device malfunctions and data corruption or loss. These actions are violations of your Maka agreement and will void your warranty.
- Default applications that come with the device are subject to updates and may no longer be supported without prior notice. If you have questions about an application provided with the device, contact Maka Service Centre.

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Operation of your QB6 HD Digital Roadcorder™

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Product Specifications

Light sensor	2 CMOS sensors, 1/2.7" light sensation area, local and long cable
Lens	Fixed focus, full glass elements
CPU	Ambarella A7L
LCD	3 inch 16:9 TFT LCD
Audio	Built-in high sensitivity microphone/speaker
External Memory	Class 10 or above TF card(SDHC specification up to 32G)
Gravity sensor	Sensitivity 2g/4g/8g/OFF
Motion detect	ON/OFF
Shutter	Electronic shutter
White balance	Auto
Exposure	Auto ISO
TV interface	HDMI
Battery (optional)	500mAh 3.7V rechargeable lithium battery
Video format	MP4
2ch video record	2 channel 1080P30 video record (local input and long cable input)
Video resolution	1920x1080P30，1280x720P30
Language	English, Chinese
USB	USB 2.0
Loop recording	OFF/1/min/2 min/5 min/10 min
Auto screen off	OFF/1 min/3 min
Manual screen off	ON/OFF
Microphone mute	ON/OFF

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Device Layout

1	Rear Camera AV Output	**8**	Menu Down
2	USB Charging Port	**9**	Up Navigation Button
3	Rear Camera AV Input	**10**	Down Navigation Button
4	Mounting Port	**11**	Mode Button
5	Power On/ Off Switch	**12**	Microphone
6	Ok (Confirm) Button	**13**	MicroSD Card Slot
7	HDMI Port	**14**	Soft Reset Button

TOP VIEW

BASE VIEW

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Buttons

Button	Functions
⏻	Press and hold to turn the device on or off. **Hot Keys during recording mode:** • ⏻ – Act as an Emergency button. Press to manually lock the file during recording.
OK	Press to start recording. The OK button also acts as an OK button to confirm your selection in setting mode.
MENU	Press to enter and exit Setting mode
UP / DOWN	Press to navigate to the preferred functions required **Hot Keys during recording mode:** • **UP** – Press to turn on/ off the screen during recording. • **DOWN** – Press to mute/ unmute the microphone during recording.
MODE	Press to toggle between **Recording Mode** and **Playback mode**
RESET	Press and hold for more than 3 seconds to reset the device if it has fatal errors or hang-ups, or freezes.

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Status Icons

Icon	Meaning
1920 **1080**	Video Resolution set to Full HD1080P (1920X1080) 16:9
1280 **720**	Video Resolution set to HD720P (1280X720) 16:9
	Charging via USB Charger
	Battery Power Level
	Microphone Mute
	Microphone On
	Video Recording Mode
	Video Playback Mode
	Memory Card Inserted
x	Empty Memory Card Slot
0.0EV	White Balance Status
30P	30 Frames per Second
16:9	Aspect Ratio of the recorded video

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Package contents

Check the product box for the following items:

- QB6 Front Camera
- QB6 Rear Camera
- Operating Manual
- 5.5 metres AV Cable
- Mounting holder for front camera (included 3M & Suction Mount)
- Mounting suction holder for rear camera (included 3M & Suction Mount)
- USB Cable
- Car Charger
- HDMI Cable

The items supplied with the device and any available accessories may vary depending on the region. The supplied items are designed only for this device and may not be compatible with other devices.

Appearances and specifications are subject to change without prior notice. Malfunctions caused by using unapproved accessories are not covered by the warranty service. Availability of all accessories is subject to change depending entirely on manufacturing companies. For more information about available accessories, refer to the Maka GPS Technologies Group website.

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Installation

1   Fixing both cameras to the window mounts
It is compulsory for both the front and rear window mounts to be fixed up before using the device in a car. Make sure that you place the recorder in an appropriate place, so as not to obstruct the driver's view.

2   Connecting charger to the cigarette lighter
Connect only the manufacturer-approved charger supplied with your device. Use only Maka GPS Technologies Group-approved charger specifically designed for your device. Incompatible charger can cause serious injuries or damage to your device.

3   Connecting both cameras
Connect the front and rear cameras with the AV cable given in the package.
- Plug in one of the AV cable jacks to the Rear Camera AV Input port on the Front Camera.
- Plug in the other side of the AV cable jet to the Rear Camera AV Output port

4   Securing the power cord
Use cable clips to secure the power cord so that it does not interfere while driving. To ensure the highest quality recording, you are advised to place the car DVR near the rear view mirror.

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5 Inserting a memory card

You have to insert a memory card before you can start recording. The recorder supports Micro SD cards with up to 32GB capacity. **You are advised to use a Class 10 memory card with at least 8GB capacity.** DO NOT insert or remove the memory card when operating the device.

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Charging the battery

Use the charger to charge the battery before using it for the first time. Charge the device by connecting front camera via the USB car charger. Use only Maka-approved chargers, batteries, and cables. Unapproved chargers or cables can cause the battery to explode or damage the device.

Connect the USB car charger's jack to the USB charging port and then plug the charger into the car cigarette lighter socket.
- When device detects no power supply, it will automatically switch off in 5 seconds time. To turn on the device again, you will need to press on the ⏻ on/ off button to manually switch it on.
- If the battery is completely discharged, the device cannot be turned on immediately when the charger is connected. Allow a depleted battery to charge for a few minutes before turning on the device.

Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.
- The device can be used while it is charging, but it may take longer to fully charge the battery.
- If the device receives an unstable power supply while charging, the screen may not function. If this happens, unplug the charger from the device.
- While charging, the device may heat up. This is normal and should not affect the device's lifespan or performance.
- If the device is not charging properly, take the device and the charger to a Maka Service Centre.

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Inserting a memory card

Your device accepts memory cards with maximum capacities of 32 GB. Depending on the memory card manufacturer and type, some memory cards may not be compatible with your device.

Some memory cards may not be fully compatible with the device. Using an incompatible card may damage the device or the memory card, or corrupt the data stored in it.

Use caution to insert the memory card right-side up as shown in the image below.

- Insert a memory card with the gold-coloured contacts facing downwards.
- Push the memory card into the slot until it locks in place.

It is recommended to reformat a memory card every time images are transferred from it to a computer, or at least once a month.

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Reformatting a memory card keeps data and the structure of files stored on it clean, helping to prevent error messages and missing images. Reformatting also restores the memory card, which can prevent it from becoming corrupted.

Removing the memory card

Before removing the memory card, first unmounts it for safe removal.

On the device
1   Press on the **OK** button to stop the device from recording
2   Press on the ⏻ **ON/OFF** button to switch off the device
3   Pull out the memory card.

Do not remove the memory card while the device is transferring or accessing information. Doing so can cause data to be lost or corrupted or damage to the memory card or device. Maka GPS Technologies Group is not responsible for losses that result from the misuse of damaged memory cards, including the loss of data.

Formatting the memory card

You may choose to format your memory card on a computer or on the device.

On the device
1   Press on **OK** button to stop the device from recording
2   Press on the **MENU** button
3   Press on **DOWN** button to navigate to the function that shows Format

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4 Press on **OK** to confirm your selection
5 Press on **UP** button once
6 Press on **OK** once the word **YES** is highlighted in red
7 Press on **UP** button once
8 Press on **OK** once the word **YES** is highlighted in red

Before formatting the memory card, remember to make backup copies of all important data stored on the device. The manufacturer's warranty does not cover loss of data resulting from user actions.

Turning the device on and off

Press and hold the Power button for a few seconds to turn on the device. A welcome message will be displayed on screen as shown in the image below.

To turn off the device, press and hold the Power button for a few seconds again to turn off the device. A goodbye message will be displayed on screen as shown in the image below.

QB6 HD Digital Roadcorder™ will be switch on and off automatically if you have permanently connected it to the car charger.

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Date/ Time Setup

Access the following settings to change the device's time and date.
If the battery remains fully discharged or removed from the device, the time and date is reset.

1 Press on **MENU**
2 Press on **DOWN** button to navigate to the function that shows the date format: **YYYY/MM/DD HRS:MM**
3 Press on **OK**
4 Press on the **UP** or **DOWN** button to change the date and time according.
5 Press on **MODE** button to shift your entry to the next segment
6 Press on **OK** again to confirm your entry

Language

The available language may vary depending on the region.

1 Press on **MENU**
2 Press on **DOWN** button to navigate to the function that shows **English/ 繁體中文**
3 Press **OK**
4 Press on the **UP** or **DOWN** button to make your selection
5 Press on **OK** to confirm your entry

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Recording Mode

Front Camera Setting
1   Press on **MENU**
2   Press on **UP** or **DOWN** button to navigate to the function that shows **1920x1080 30P 16:9** or **1280x720 30P 16:9**
3   Press on **OK**
4   Press on the **UP** or **DOWN** button to make your selection
5   Press on **OK** to confirm your entry
6   Press on **MENU** to exit Setting
7   Start recording by pressing **OK** button
8   Stop recording by pressing **OK** button again

Rear Camera Setting
1   Press on **MENU**
2   Press on **UP** or **DOWN** button to navigate to the function that shows **REAR CH: 1920x1080 30P 16:9** or **1280x720 30P 16:9**
3   Press on **OK**
4   Press on the **UP** or **DOWN** button to make your selection
5   Press on **OK** to confirm your entry
6   Press on **MENU** to exit Setting
7   Start recording by pressing **OK** button
8   Stop recording by pressing **OK** button again

This feature is applicable when you connect the AV cable to both front and rear cameras.

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Date and Time Stamp

You have an option to display your time and date in your videos. Date and Time stamp will not be able to remove once you have activated this feature.

1   Press on **MENU**
2   Press on **UP** or **DOWN** button to navigate to the function that shows **Time Stamp: ON/OFF**
3   Press on **OK**
4   Press on the **UP** or **DOWN** button to make your selection
5   Press on **OK** to confirm your entry
6   Press on **MENU** to exit Setting

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Loop Recording

The device will continue to record by erasing the previously recorded videos. All old videos will be replaced with the new ones.

It is recommended to reformat a memory card every time images are transferred from it to a computer, or at least once a month to keep data and the structure of files stored on it clean, helping to prevent error messages and missing images.

It is important to make backup copies of all important data stored on the device. The manufacturer's warranty does not cover loss of data resulting from user actions.

1. Press on **MENU**
2. Press on **UP** or **DOWN** button to navigate to the function that shows **Record Time: 1min/ 2min/ 3min**
3. Press on **OK**
4. Press on the **UP** or **DOWN** button to make your selection
5. Press on **OK** to confirm your entry
6. Press on **MENU** to exit Setting

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Microphone

You may choose to turn off the microphone so that all the recorded videos will be muted.

1. Press on **MENU**
2. Press on **UP** or **DOWN** button to navigate to the function that shows **Mute Mic: On/Off**
3. Press on **OK**
4. Press on the **UP** or **DOWN** button to make your selection
5. Press on **OK** to confirm your entry
6. Press on **MENU** to exit Setting

Alternatively, you can choose using the hot keys for shortcuts
Hot Keys during recording mode:

- Press on **DOWN** button – Press to mute/ unmute the microphone during recording.

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LCD Display

Select timer duration for the LCD to turn off after recording starts.

1 Press on **MENU**
2 Press on **UP** or **DOWN** button to navigate to the function that shows **LCD Auto Power Off: OFF/ 1min/ 3min**
3 Press on **OK**
4 Press on the **UP** or **DOWN** button to make your selection
5 Press on **OK** to confirm your entry
6 Press on **MENU** to exit Setting

Alternatively, you can choose using the hot keys for shortcuts
Hot Keys during recording mode:

- Press on **UP** button – Press to turn on/ off the screen during recording.

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Motion Detector

This function enables you to use your device as a remote surveillance camera with motion detection functionality. It uses the built-in camera to detect movements in the surrounding area using an advanced motion detection algorithm. Camera will auto record If it detects any movement.

1 Press on **MENU**
2 Press on **UP** or **DOWN** button to navigate to the function that shows **Motion Detect: OFF/ ON**
3 Press on **OK**
4 Press on the **UP** or **DOWN** button to make your selection
5 Press on **OK** to confirm your entry
6 Press on **MENU** to exit Setting

This feature is applicable to both front and rear cameras.

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Gravity Sensor

This function acts like an accelerometer. It measures the acceleration and gravity forces detected on the camera. At such case during recording, the device will auto do a file lock. We recommend you to set [medium]

1 Press on **MENU**
2 Press on **UP** or **DOWN** button to navigate to the function that shows **Motion Detect: OFF/ LOW/ MEDIUM/ HIGH**
3 Press on **OK**
4 Press on the **UP** or **DOWN** button to make your selection
5 Press on **OK** to confirm your entry
6 Press on **MENU** to exit Setting

This feature is applicable to both front and rear cameras.

Volume

Press the Volume button up or down to adjust the ringtone volume, or to adjust the sound volume when playing video.

1 Press on **MENU**
2 Press on **UP** or **DOWN** button to navigate to the function that shows **VOLUME**
3 Press on **OK**
4 Press on the **UP** or **DOWN** button to make your selection
5 Press on **OK** to confirm your entry
6 Press on **MENU** to exit Setting

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Light Frequency

Please set according to the local power supply respectively; 50Hz or 60Hz.

1 Press on **MENU**
2 Press on **UP** or **DOWN** button to navigate to the function that shows **LIGHT FREQ.: 50Hz/ 60Hz**
3 Press on **OK**
4 Press on the **UP** or **DOWN** button to make your selection
5 Press on **OK** to confirm your entry
6 Press on **MENU** to exit Setting

Output Dual Mode

You have an option to display various output modes on the screen.

1 Press on **MENU**
2 Press on **UP** or **DOWN** button to navigate to the function that shows **OUTPUT DUAL MODE**
3 Press on **OK**
4 Press on the **UP** or **DOWN** button to make your selection
5 Press on **OK** to confirm your entry
6 Press on **MENU** to exit Setting

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Exposure

Adjust exposure according to your preference.

1   Press on **MENU**
2   Press on **UP** or **DOWN** button to navigate to the function that shows **AE BIAS**
3   Press on **OK**
4   Press on the **UP** or **DOWN** button to make your selection
5   Press on **OK** to confirm your entry
6   Press on **MENU** to exit Setting

Restore Factory Setting

Set the system parameters to the default value.

1   Press on **MENU**
2   Press on **UP** or **DOWN** button to navigate to the function that shows **DEFAULT SET**
3   Press on **OK**
4   Press on the **UP** or **DOWN** button to make your selection
5   Press on **OK** to confirm your entry
6   Press on **MENU** to exit Setting

Playback Mode

1. Stop recording by pressing on the **OK** button
2. Press on **MODE** to switch from recording to playback mode
3. Press on **UP** or **DOWN** button to navigate thru the video files
4. Press on **OK** once you have found the file you wish to play
5. Press on **OK** again to **START** playing
6. Press on **OK** again to **STOP** playing
7. Press on **MENU** to **PAUSE** playing
8. **FAST FORWARD**: Press the **UP** button to forward your video to **2X / 4X / 16X** speed mode with each press
9. **SLOW FORWARD**: Press the **DOWN** button to slow forward your video to **1/2 X / 1/4 X / 1/8 X / 1/16X** speed mode with each press

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Delete Files

To delete one particular file
1   Press on **UP** or **DOWN** button to navigate thru the video files
2   Press on **MENU** to **DELETE**
3   Press on **OK** to confirm delete this file
4   Press on **UP** button once
5   Press on **OK** once the word **YES** is highlighted in red

To delete all files
1   Press on **UP** or **DOWN** button to navigate thru the video files
2   Press on **UP** button to **DELETE ALL**
3   Press on **OK** to confirm this action
4   Press on **UP** button once
5   Press on **OK** once the word **YES** is highlighted in red

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Question	Reason	Solution
The captured image is not stored	1 MicroSD card might be full. 2 Image is not saved before the power outage.	Make sure to stop recording before shutting down.
All buttons are invalid	Procedural error or faulty operation	Press RESET button to restart the DVR.
Device cannot be turn on	Device might be low in battery.	Charge the Battery.
Screen Auto power-off	1 Screen Saver function is enabled. 2 Low Battery.	1 Press on UP button disable the screen saver mode. 2 Charge the battery
Unable to record videos	1 Memory card might be full. 2 If loop recording has been enabled, memory card might be corrupted.	1 Check your memory card's space. Delete files if required. 2 Reformat your Memory card, if issue still persists, replace a new memory Card
Auto stop recording in video mode	Use a compatible SDHC microSD card for HD video recording.	Get a microSD card that has minimum 8GB Class 10 speed.
Encounter "file error" when trying to playback pictures or videos	MicroSD card might be corrupted. There bad sectors in the card.	Reformat the memory card.
No image is displayed on a high-definition TV screen	1 Cable plug might not be plugged in properly. 2 Wrong TV Input mode	1 Ensure AV/ HDMI cable is plug into the TV properly. 2 Refer to the back panel of your TV to track the correct TV input. Make sure you have selected the correct input.

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Question	Reason	Solution
Hazy Images	Lens might be dirty.	Check if there are fingerprints or dust on the lens. Clean it with a micro fabric cloth if necessary.
There are horizontal stripes interference on the image	This could be due to wrong light frequency setting	Please set according to the local power supply respectively; 50Hz or 60Hz. For SG/MY: 50hz