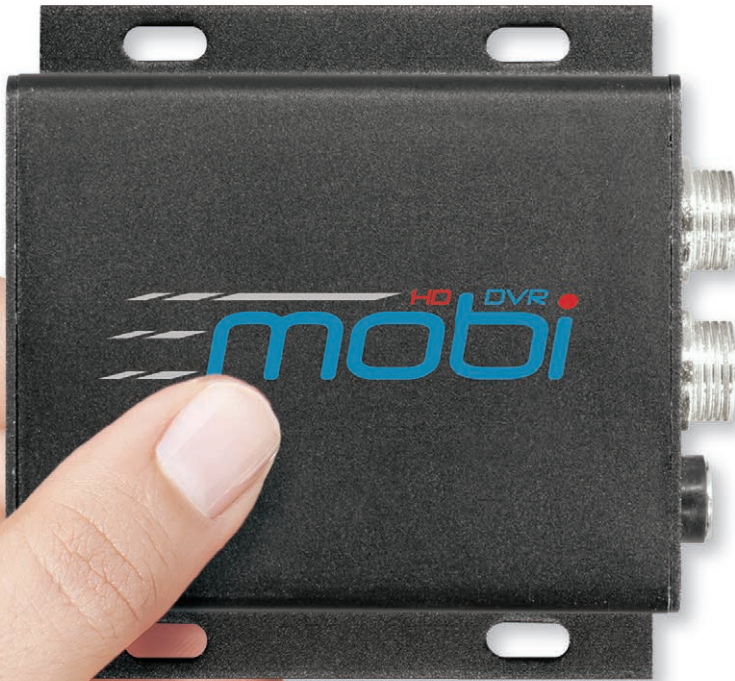


12V Micro HD DVR!

The perfect solution for covert,
mobile or temporary CCTV.



Scan here for
a PDF version
of this manual

- ✓ HD 1080P Recording
- ✓ Easy Micro SD Card Storage
- ✓ Low Voltage 12V DC
- ✓ TVI & AHD 2MP Compatible
- ✓ 1 Ch Video & Audio
- ✓ Compact size 85 x 85 x 25mm

A covert solution to catch fly tippers



A temporary means of protecting a building site





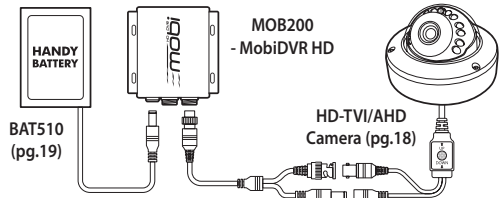
A discreet way to protect a loved one

A great option for creating a mobile system...

...with the Handy Battery

- ✓ 12V Rechargeable Battery
- ✓ Slim Design
- ✓ Fitted with 2.1mm Plug
- ✓ Ideal for Temporary Use

The Handy-Battery is a compact 12V power pack with an industry standard 2.1mm DC power plug. It can be used to power the MobiDVR HD and an IR CCTV camera to create a truly mobile CCTV system.



see pg.19

The MobiDVR HD is the perfect solution for covert, mobile or temporary CCTV.

A tiny 8.5x 8.5cm size means you can use it anywhere and the 12V DC operation means you can use it for both permanent and temporary installations that are battery powered. It's simple to get up and running, just plug in your HD camera or video source, power it up and you'll be recording high quality 1080P video in seconds!

It even records audio from your camera or a separate connected microphone so you can get useful voice and sound recordings that add extra context to your footage. You can use up to a 128GB micro SD card and use the adjustable recording settings to get the length and quality of recording to suit your individual application.

Police-friendly AVI files for evidence can be copied onto a USB drive or simply connect the Mobi directly to a PC for copying straight to your desktop. The practical '**File Lock**' feature can be selected that means footage won't be recorded over until it can be copied over to a back-up USB drive at a later date.

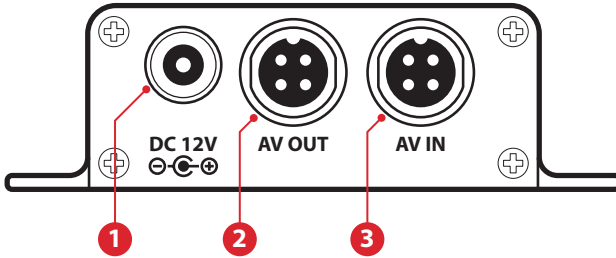
A special menu selection allows you to quickly select the length of time that each video clip will last for either 30, 5, 3 minutes or just 1 minute making it easier to get the exact footage you require as evidence rather than spending valuable time watching an empty space.

Powering the unit is straightforward using a 12V DC power source from a standard regulated PSU such as POW803 (pg.19) or battery pack such as Handy Battery BAT510 (pg.19) . You could even use the car adaptor lead supplied and power it from your own vehicle to record footage.

Contents

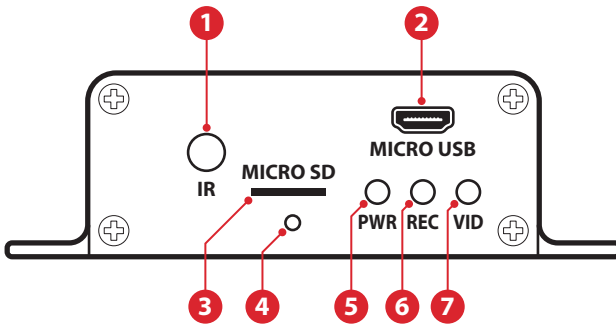
Connections	5
Connection Diagram	6
IR Remote Control	6
Live View	7
Playback	7
Playback Menu	8
Playback & Backup On A PC	9
Menu System	10
Extras To Consider	18
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MobiDVR HD Kit Contents	20

Side 1 - Video & Power



No.	Feature	Function
1	2.1mm DC Socket	Mobi's power socket. Can be powered with a 12V DC power supply. (12V 2.1mm DC in-car power lead supplied, plug-in PSUs available on pg.19)
2	4-Pin AV Out Socket	For connecting the Mobi to a CVBS monitor. (Fly-lead for video, audio and power supplied, see pg.6)
3	4-Pin AV In Socket	For connecting a HD-TVI or AHD camera to the Mobi. (Fly-lead for video, audio and power supplied, see pg.6)

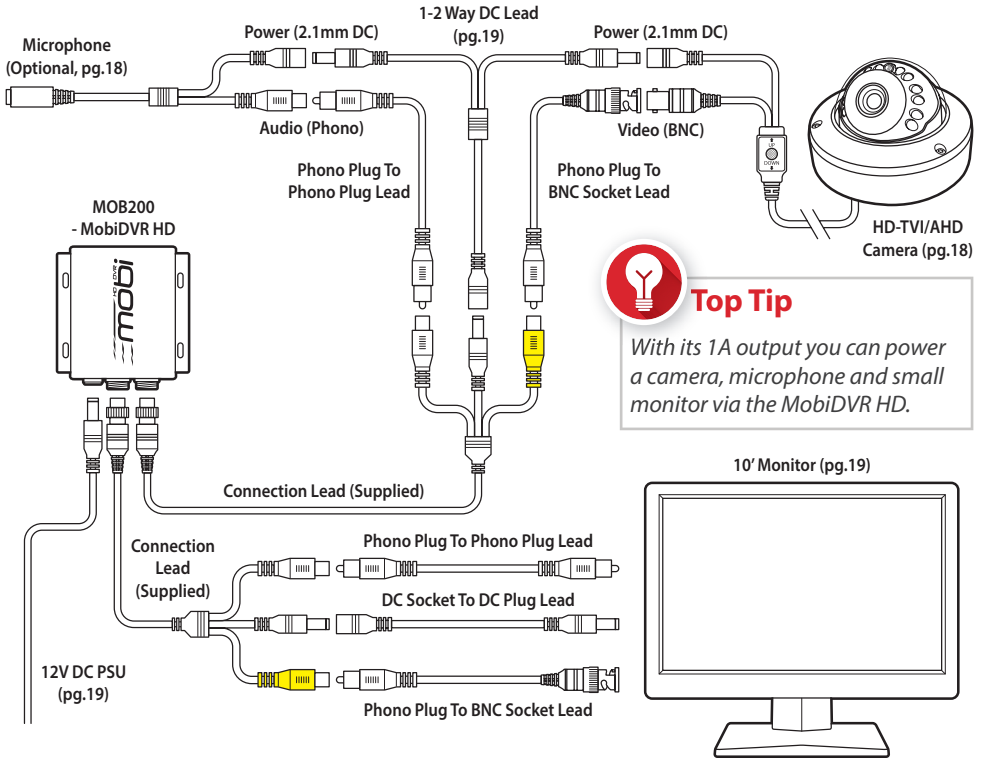
Side 2 - Storage & Indicators



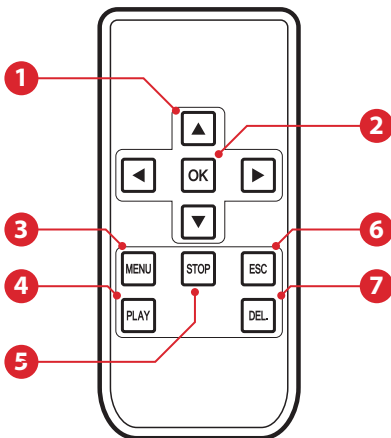
No.	Feature	Function
1	IR Sensor	IR sensor for receiving IR remote control commands.
2	Micro USB	For connecting to a PC to retrieve footage and playback.
3	Micro SD Card Slot	The Mobi requires a Micro SD card of up to 128GB to record footage.*
4	Reset Button	Press to restore Mobi back to default settings.
5	Power LED	Lights red when the Mobi is receiving power.
6	Record LED	Flashes green when the Mobi is recording.
7	Video LED	Lights green when a camera is connected.

*Not Supplied, available on pg.18.

Connection Diagram (Example)



IR Remote Control





The Mobi comes with an IR remote control which requires a CR2025 battery (Included).

No.	Feature	Function
1	Direction Arrows	Navigate the menu system / change parameters.
2	OK	Confirm selection/changes / Start/stop recording
3	Menu	Display the menu system.
4	Play	Display Playback screen.
5	Stop	N/A.
6	Esc	Return to previous menu.
7	Del.	N/A.

Note: Recording must be stopped before you can enter the main or playback menu.



Live View will be displayed when the Mobi is powered on showing the live video/audio feed, record status, current time and date and the micro SD card status.




No.	Function
1	Blue - Not Recording Shows available record time remaining.
	Red - Recording Timer shows length of clip currently recording.
2	Current time and date.
3	 Micro SD card detected.
	 No micro SD card detected.

Playback



To enter Playback mode press 'Play'. Use the 'Up' and 'Down' arrows to select a file and press 'OK' to start.

Press 'OK' to pause/resume playback, 'Esc' to return to file selection or 'Play' to return to Live View mode.

No.	Function
1	Length of video file / Timer during playback
2	 Video resolution.
3	 Playback mode indicator.
4	Name of recorded file.
5	Time/date of recording.
3	 Displayed if the file is protected.

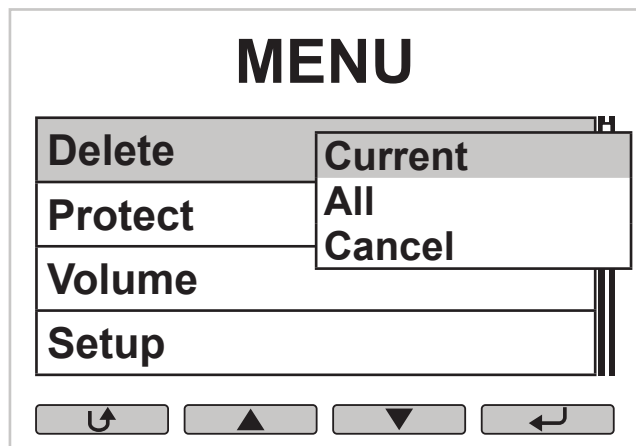
Note: You can't playback files when the Mobi is recording.

Playback Menu

After selecting a file in the Playback screen press 'Menu' to enter the Playback menu.

Use the up and down arrow buttons to highlight a menu option. Press 'OK' to enter a sub menu and to make a selection. Finally use the 'Esc' button to exit submenus and to exit the Playback menu.

Delete



In the 'Delete' submenu you have three options:

Current

Deletes the currently selected file.

All

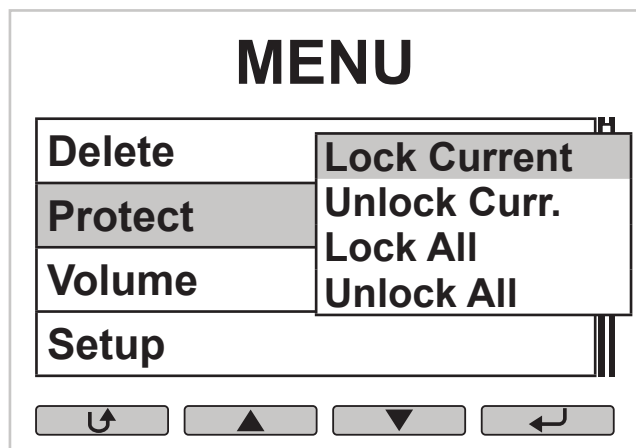
Deletes all files on the micro SD card.

Cancel

Exit the delete submenu without deleting any files.

Note: Locked files will not be deleted.

Protect



Protecting files prevents them from being deleted or over-written:

Lock Current

Lock selected file.

Unlock Current

Unlocks selected file.

Lock All

Lock all files on SD card.

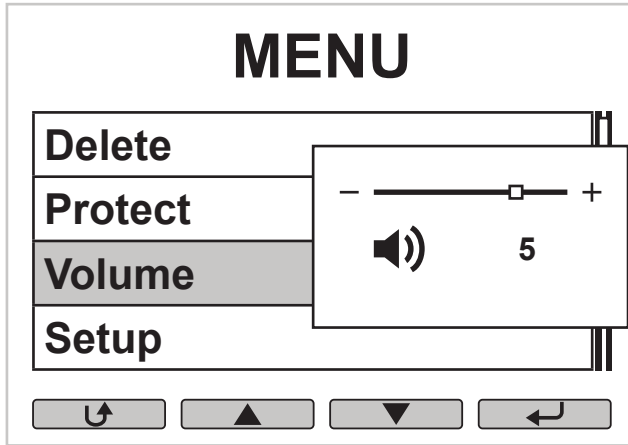
Unlock All

Unlock all files on SD card.

Note: Locked files will be deleted if the SD card is reformatted.

Playback Menu

Volume



After selecting 'Volume' you can then use the up and down arrow buttons to adjust the volume level.

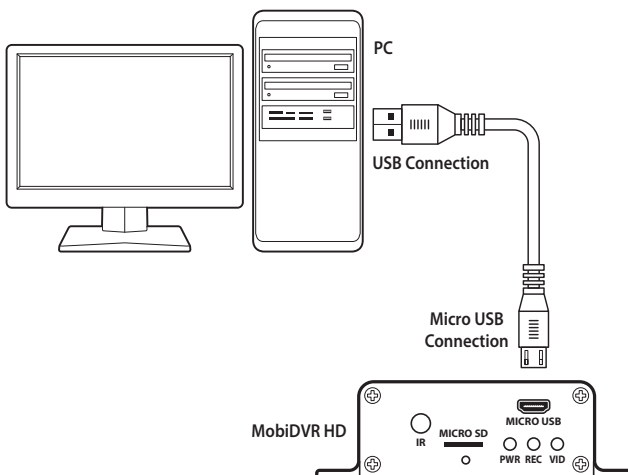
The volume can be set between 0 and 8 with 8 being the highest.

To mute the audio set the volume to 0.

Set Up

The 'Set Up' submenu is also accessible through the Main menu and is described in detail on pg.13.

Playback & Backup On A PC

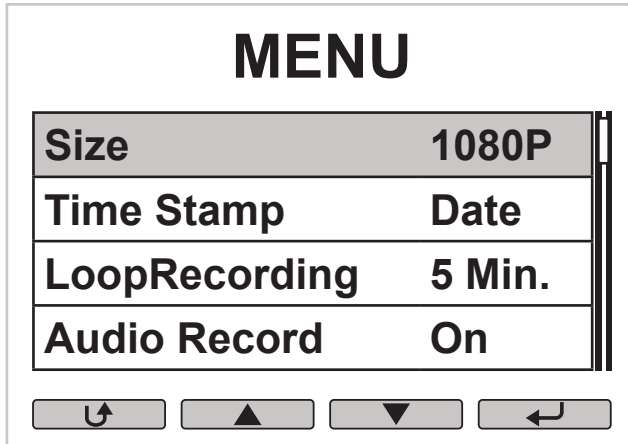


There are two easy ways to backup and playback footage on to a PC.

1. If you have a micro SD card reader simply remove the micro SD card from the Mobi and insert it into the reader/PC. You can then copy the files to the PC for playback and safe storage.
2. If you don't have a micro SD card reader you can use a USB to micro USB lead as shown to connect to a PC.

If the Mobi is recording this will need to be stopped before you can enter the menu system by pressing 'OK'. To display the menu system press 'Menu' when in live view mode.

Menu Controls

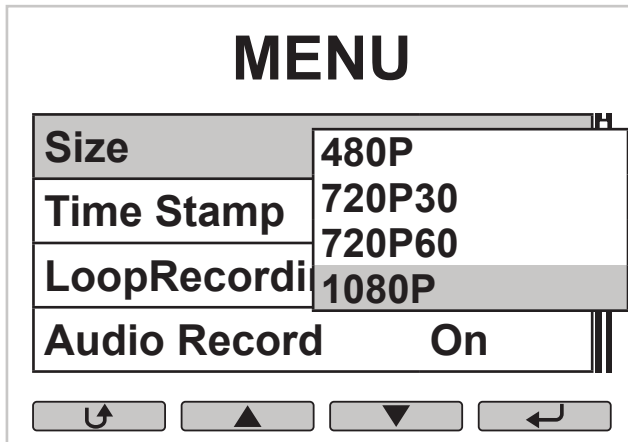


To navigate through the menu system or to change parameters use the 'Up' and 'Down' direction arrows on the remote.

To select a menu option or parameter press 'OK'.

To return to the previous menu or to exit the menu system press 'Esc'.

Size



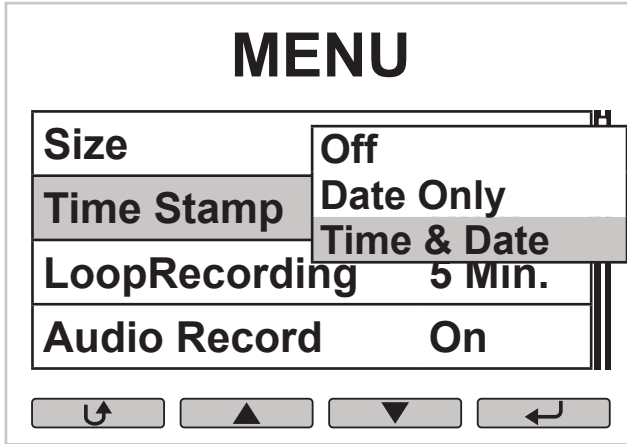
The 'Size' menu is where you set the resolution you want the MobiDVR to record at.

There are four options when choosing the video resolution, 1080P, 720P at 60 fps, 720P at 30 fps and 480P.

The resolution and frame rate determine how much memory is used when recording as shown below.

Video Mode	Resolution	Frame Rate (per second)	Memory Usage (per hour)
480P	720 x 480	30fps	1.2GB ~ 1.5GB
720P30	1280 x 720	30fps	2.4GB ~ 3GB
720P60	1280 x 720	60fps	4GB ~ 8GB
1080P	1920 x 1080	30fps	4GB ~ 8GB

Time Stamp



The 'Time Stamp' menu allows you to set what time and date information is overlaid during live view and on recordings.

Off

No time or date displayed.

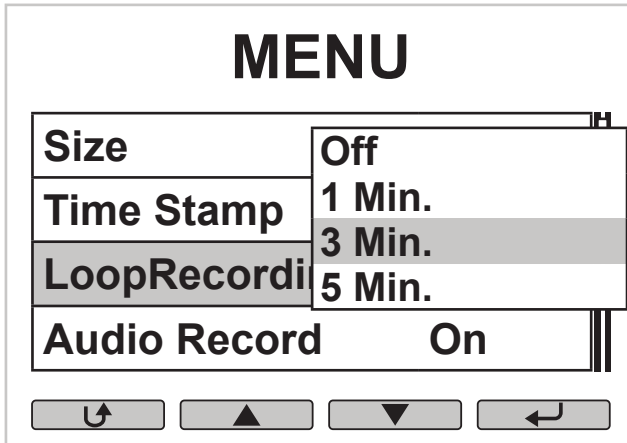
Date Only

Only the date is displayed.

Time & Date

Both the time and date are displayed.

Loop Recording



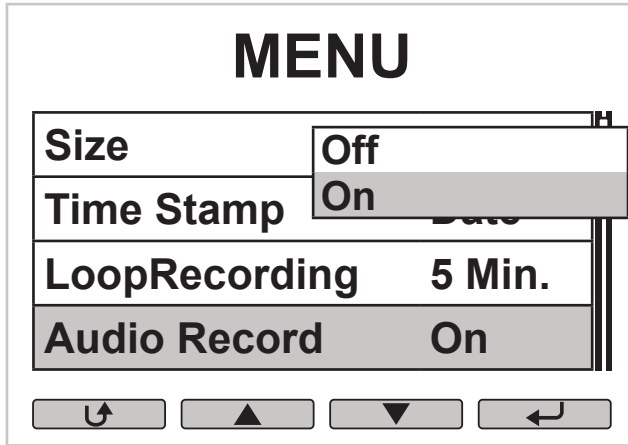
For efficiency the Mobi records in a continuous series of short clips rather than one large video so that if an incident does occur you only need to backup a few small files.

In the 'LoopRecording' menu you can set the length of recordings which dictates how a full memory card is handled as shown below.

Loop Recording Mode	Video Clip Length	When Memory Card Is Full
Off	30 minutes	Stops recording
1 Min.	1 minute	Keeps recording by overwriting older footage.
3 Min.	3 minutes	Keeps recording by overwriting older footage.
5 Min.	5 minutes	Keeps recording by overwriting older footage.

Note: For an estimate of how long of a time period your recordings will cover based on the memory card used and video settings, see 'Size' on the opposite page.

Audio Record



In the 'Audio Record' menu you can set if audio is recorded or not.

If you don't require audio turning it off is an easy way to reduce file size.

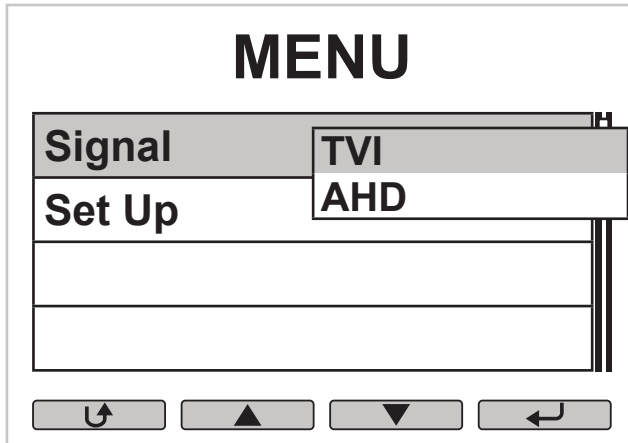
Off

Audio will not be recorded.

On

Audio will be recorded (if a microphone is connected)

Signal



The MobiDVR HD is compatible with 1080p HD-TVl and AHD cameras.

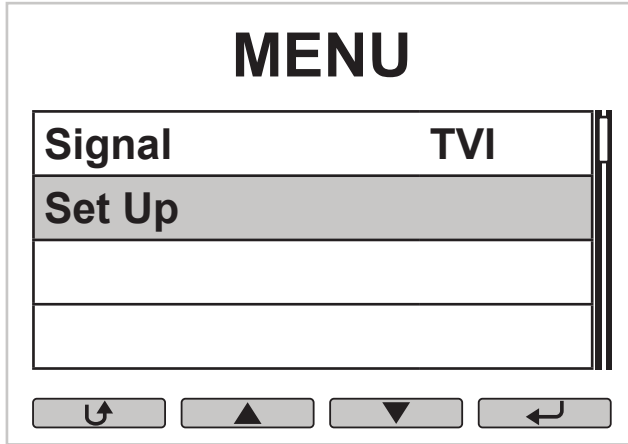
It is important that you set the Mobi's signal so that it matches that of the camera connected to it.

This is done in the 'Signal' menu. e.g. If a TVl camera is connected set the Mobi's signal to TVl also.



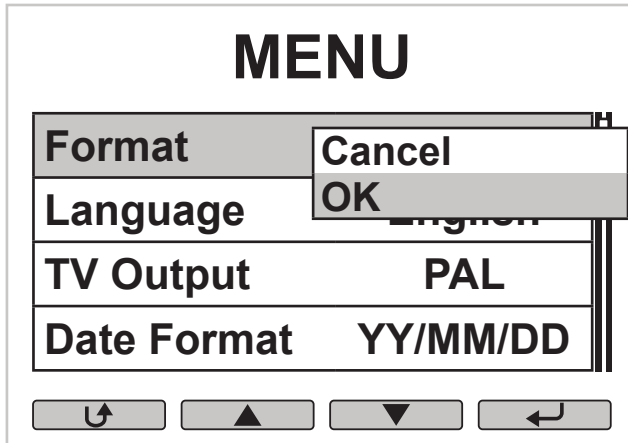
Note: If the wrong signal is set in the MobiDVR you will encounter problems when recording and with the video output.

Set Up Menu



The 'Set Up' menu handles all the key settings like language, video format time and date so that you can tailor the Mobi to suit your requirements.

Format

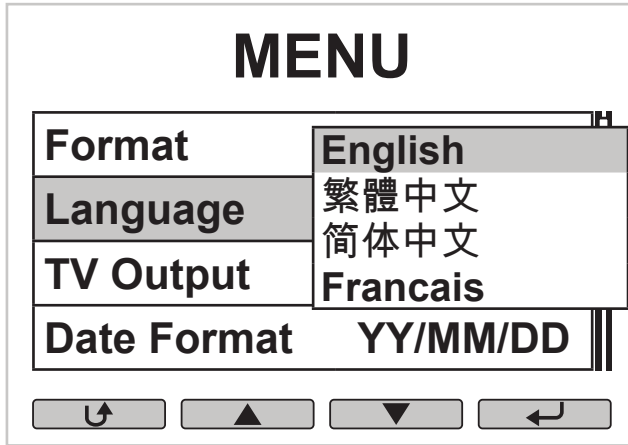


In the 'Format' menu you can delete all files and data on the Micro SD card.

To format the Micro SD card select 'OK'.

Note: Files can not be retrieved once the card has been reformatted.

Language

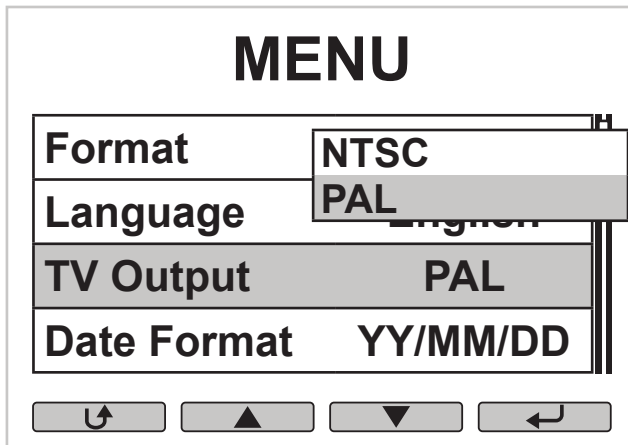


The 'Language' menu lets you set the language used in the menu system.

There are nine options to choose from, English, Traditional Chinese, Simplified Chinese, French, German, Italian, Spanish, Portuguese, Japanese and Korean.

English is set by default.

TV Output



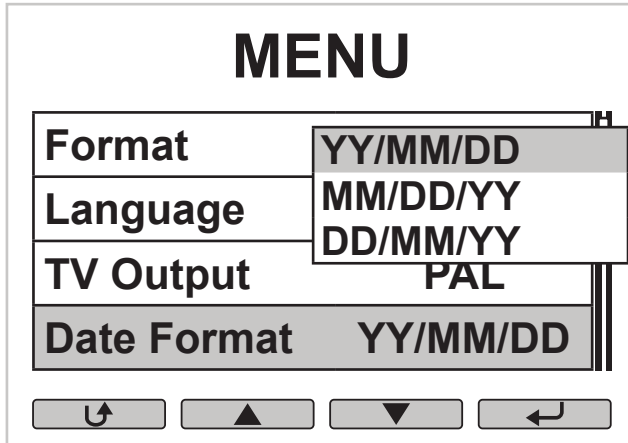
In the 'TV Output' menu you can set the video format for the signal sent from the Mobi's AV Out socket to a monitor.

The video format can be set to 'NTSC' or 'PAL'.

PAL is set by default.

Note: The output selected needs to match that of the camera connected otherwise you will encounter problems with the video output from the Mobi.

Date Format



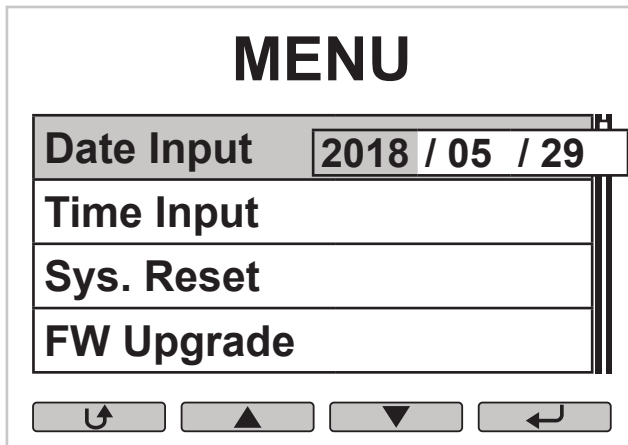
The 'Date Format' menu allows you to specify how the date is displayed during live view and on recorded footage.

YY/MM/DD
Year / Month / Day.

MM/DD/YY
Month / Day / Year.

DD/MM/YY
Day / Month / Year.

Date Input

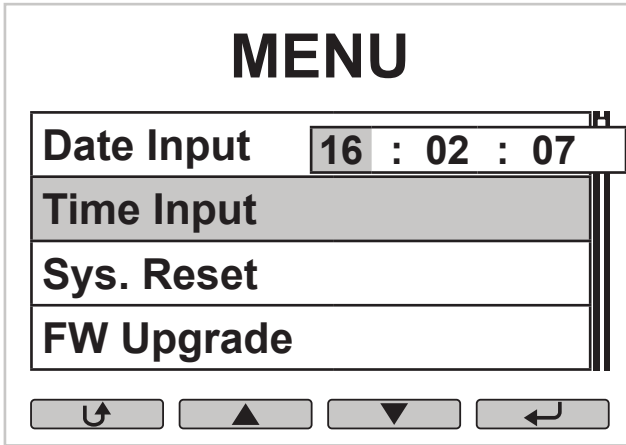


It's important that you set the Mobi to the correct date as this is the date which will be overlaid onto recorded footage.

To set the date use the 'Up' and 'Down' arrows to change a parameter then press 'OK' to move onto the next.

When you press 'OK' on the last parameter the date will be saved.

Time Input

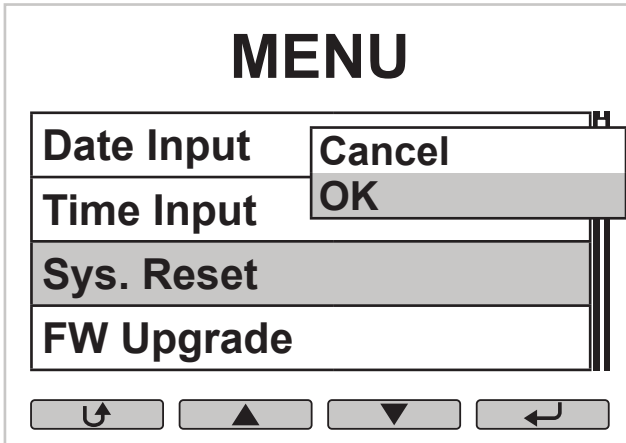


It's important that you set the Mobi to the correct time as this is the time which will be overlaid onto recorded footage.

To set the time use the 'Up' and 'Down' arrows to change a parameter then press 'OK' to move onto the next.

When you press 'OK' on the last parameter the time will be saved.

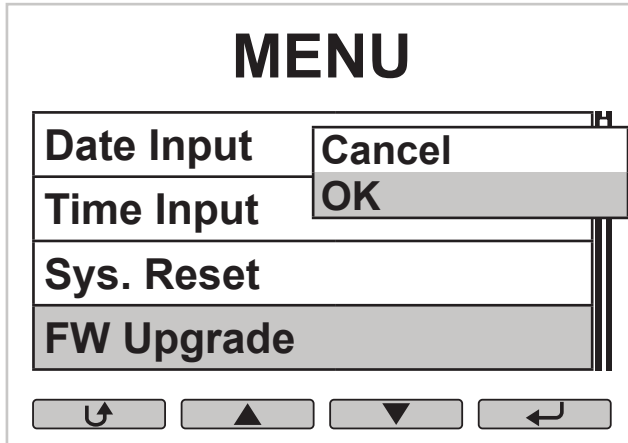
System Reset



'System Reset' is a quick and easy way to restore the MobiDVR back to its factory default settings.

Note: All changes made by the operator will be lost and will need to be configured again if required.

Firmware Upgrade

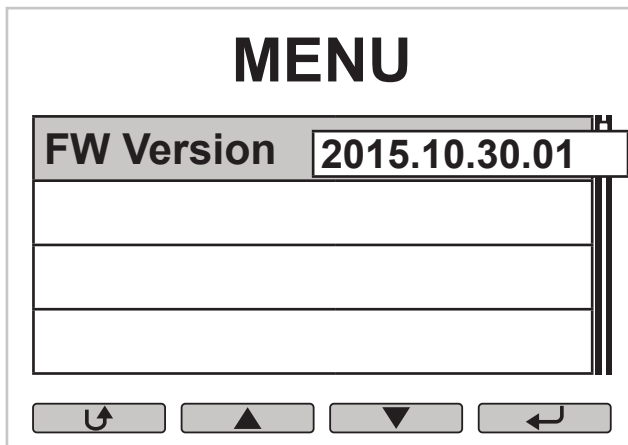


Occasionally we release new firmware to improve user experience.

Any new firmware updates will be posted online at www.MobiDVR.com.

Note: Firmware upgrades should only be attempted by a CCTV professional.

Firmware Version



'Firmware Version' displays the current firmware build installed on the MobiDVR.

Small and Attractive Mini IR Eyeball

Great for night time surveillance



- ✓ Synchronous Outputs; HD-TVI & CVBS
- ✓ 3.6mm Fixed Lens
- ✓ 2.1 Mega Pixel Lens
- ✓ True Day-Night
- ✓ 12 Built In IR LEDs
- ✓ 15m IR Range
- ✓ 16x Digital Zoom

Specifically designed for retail and commercial use, it's small enough to be discreet yet big enough to be a subtle deterrent. This attractive mini dome is feature packed for optimum results regardless of the lighting conditions.

A mechanical IR filter gives accurate colour reproduction during daylight or in brightly lit environments such as shops, whilst the built-in IR LEDs offer extra illumination when darkness or ambient light levels fall.

A synchronous HD-TVI or analogue outputs make this dome a great choice for CCTV upgrades as it is compatible with existing analogue equipment such as DVRs, but will work with future upgrades to HD quality.

Order Codes: **SEE515B** (black) / **SEE515W** (white)

Tiny HD Modules, can be Hidden Anywhere!

Great for covert recording



- ✓ Dual 1080P HD-TVI & Analogue Outputs
- ✓ Discrete Internal Design
- ✓ Low Voltage 12V DC Operation
- ✓ 8 Zone Privacy Mask
- ✓ Wide Dynamic Range
- ✓ 8x Digital Zoom
- ✓ Wall Bracket Included

The SEE905 & SEE915 covert modules offer a great alternative to the ready-made smoke or PIR case style as they can be hidden almost anywhere to suit the environment. The 3.7mm pinhole lens module (SEE915) has a cone shaped lens that is ideal for fitting into a tiny drill hole in the fabric or fittings of a building.

Order Codes: **SEE905** (board) / **SEE915** (pinhole)

32GB Micro SD Card

Great for Storing Footage



- ✓ 32GB Universal High Capacity
- ✓ For Cameras & DVRs
- ✓ Easy Backup

Ideal for DVRs that use SD cards as a means of back up or transferring video information

Order Code: **MEM342** (32GB)

Tiny Covert Mic with Phono & DC Power

Great for recording audio



- ✓ Compact Size
- ✓ 7.5mm Diameter
- ✓ Low Power less than 20mA

Ideal for covert use and building into other equipment to add sound to your CCTV images.

Order Code: **CCT622** (covert mic)

Tiny Covert Mic with Adjustable Gain

Great for recording audio



- ✓ Compact Size
- ✓ 7.5mm Diameter
- ✓ Adjustable Gain
- ✓ Low Power less than 20mA

Identical to the CCT622 (left) with the added extra of adjustable gain.

Order Code: **CCT623** (covert mic)

Extras To Consider

Handy Battery Kit



Great for temporary installations

- ✓ 12V Rechargeable Battery
- ✓ Slim Design
- ✓ Fitted with 2.1mm Plug
- ✓ Ideal for Temporary Use

The Handy-Battery is a compact 12V power pack with an industry standard 2.1mm DC power plug. Using the latest Nickel metal hydride cells (Ni-MH), the Handy-Battery provides a high capacity 2000mAh charge, is relatively light and suffers no "memory effect" that causes standard Ni-Cad cells to fail after repeated short charges. The Handy-Battery can be recharged up to 1000 times!

Its compact size is only 15mm thick and 74mm by 102mm meaning it is easy to use in covert applications even with "body worn" CCTV equipment. The Handy-Battery even makes a great replacement battery where the original battery has failed or you need a spare one for convenience.

Order Codes: **BAT510** (battery kit) / **BAT200** (Spare battery)

Tiny Size - Big spec! Compact 10" HD LCD Screen

Great for mobile systems



- ✓ 12V DC Operation
- ✓ HD Video & Audio
- ✓ Desk, VESA or Tripod Mount
- ✓ HDMI, VGA and BNC (CVBS) inputs
- ✓ Analogue Looptrough (BNC)

This mini HD screen is a great choice for temporary or mobile use as it is 12V DC and easily powered from the PSU supplied or a 12V DC battery such as the Handy Battery (BAT510). A low current consumption of just 450mAH mean the Handy Battery could operate the unit for a 4 hour stint.

Flexible mounting options mean this mini display can be used as a desk or wall mounted screen, and it even has a tripod mount socket that makes it easy for use at exhibitions or demonstrations.

Order Code: **LCD810** (10" Monitor)

12V DC 500mA PSU

Great for powering the MobiDVR HD



- ✓ 500mA Rating
- ✓ 2.1mm DC Plug
- ✓ 12V DC Operation

A 500mA 12V DC Plug-In Power Supply unit that is fully regulated for use with 12V CCTV equipment.

Order Code: **POW151** (500mA PSU)

12V DC 1.5A PSU

Great for powering a small system



- ✓ 1.5A Rating
- ✓ 2.1mm DC Plug
- ✓ 12V DC Operation

A 1.5A 12V DC Plug-In Power Supply unit that is fully regulated for use with 12V CCTV equipment.

Order Code: **POW803** (1.5A PSU)

DC Lead 1-2 Way

Great for powering camera & mic



- ✓ 2 x 2.1mm DC connectors
- ✓ 400mm Long
- ✓ Easy to Use

A female connector to connect your power supply and two 2.1mm DC male connectors for you CCTV equipment.

Order Code: **CON352** (1-2 way DC lead)

Function	Feature
Video Inputs	Phono Socket <i>(on flylead)</i>
Video Outputs	Phono Socket <i>(on flylead)</i>
Compatibility	HD-TVI / AHD <i>(1080P / 2MP)</i>
Resolution	480P - 30fps / 720P - 30fps / 720P - 60fps / 1080P - 30fps
Encoding	AVI
Audio Inputs	Phono Socket <i>(on flylead)</i>
Audio Outputs	Phono Socket <i>(on flylead)</i>
Power Input	2.1mm DC Socket Micro USB Socket <i>(5V DC)</i>
Input Voltage	9V DC ~ 30V DC
Input Current	280mA <i>(12V DC)</i>
Power Output	2.1mm DC Plug <i>(on flylead x2)</i>
Output Voltage	12V DC <i>(with 12V DC or greater input)</i>
Output Current	1A <i>(with 1.5A or greater input)</i>
Micro SD Card	128GB Max
Memory Usage <i>(per hour)</i>	480P/30fps = 1.2GB ~ 1.5GB 720P/30fps = 2.4GB ~ 3GB 720P/60fps = 4GB ~ 8GB 1080P/30fps = 4GB ~ 8GB
USB Interface	Micro USB Socket
Dimensions	85 x 85 x 25mm

MobiDVR HD Kit Contents



MobiDVR HD Unit



IR Remote Control



2x Connection Flyleads



In Car Charger

All specifications are approximate. We reserves the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, we cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.



WEE/CG078355

This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this unit to your trade supplier or local designated collection point as defined by your local council.

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