The new Mini Mobile Digital Video Recorder

Model MOB100

Features: *Ideal for Vehicles*
12v DC Input 150mA Regulated
Lower Power Consumption
SD card Recording
Schedule & Motion Recording
Size only 105 x 84 x 29mm (case only)

Version 3.1

Last Revised 08/12/2011

Contents   Page

1. Safety Precautions

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.

WEE/CG0783SS

DO NOT OPEN COVERS (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.

It is advised to read the Safety Precaution Guide through carefully before operating the product, to prevent any possible danger.

Do not Plug and unplug the power cord, it may result in product malfunction.

Do not install the product in an environment where there is high humidity.

Do not use this product in wet weather.

Do not install this DVR directly into a vehicle cigarette lighter socket.

Do not drop the product or subject it to physical shock.

Never use the product in direct strong sunlight.

Do not spill liquid of any kind on the product.

Do not install the product in extreme temperature conditions.
Use the camera in conditions where temperatures are between 5°C ~ 45°C and ensure adequate ventilation to the unit is provided.

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2.   Features

- The DVR supports NTSC or PAL video system.

- The DVR uses MPEG4 and supports one channel video and one channel audio recording and playback operation.

- Allows deletion of current file in playback mode.

- Audio/Video data is recorded directly on the SD or SDHC card up to 16Gb.

- DVR uses a simple playback method to a PC using proprietary software or Windows Media Player and DivX codec.

- The DVR supports: Manual, Motion Detection and Schedule Recording modes with variable frame rate setup.

- Date and Time stamp option displayed on recorded files.

- Overwrite or stop recording feature can be set.

- DVR can be set to record video or still frames.

- Playback forwards or backwards up to 2 x speed.

- Displays how long SD card will record.

- Option to format the SD card.

- Motion Detection with sensitivity and pre-record options.

- 12v DC 150mA current consumption using regulated supply.

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3. Name & Function of Each Part

1. FRONT KEYBOARD

▲:   Move Up: Turn on Voice
▼:   Move Down: Turn Down Voice
◄:   Move Left
►:   Move Right: Switch Channel 1 to
                                   Channel 2
OK: Confirm: Preview:
                 Start/Stop Motion Detection

Menu: Return
Delete: Delete this file, video or picture
              In Playback mode
Play: Playback, return
Rec.:   Record directly

2. TOP INPUT & OUTPUT CONNECTIONS

IN: Connect input Audio and Video
OUT: Connect output Audio and Video

3. BOTTOM CONTROLS

DC 9V-12V: Connect 12vDC <u>regulated</u>*
                     Power Supply > 200mA
On/Off: DVR on/off switch
SD Card: Connect SD or SDHC card
Power LED: Lights when psu connected
Motion LED: Lights when motion detected
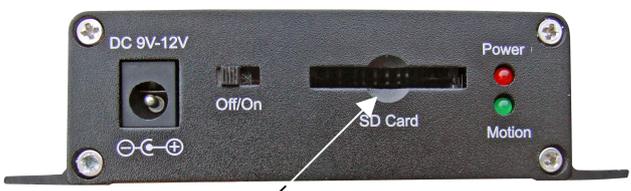
* Do not plug DVR directly into a car cigarette lighter socket as car battery voltage is not regulated and can be more than 12vDC that will damage the DVR.

Use SD or SDHC card up to 16Gb
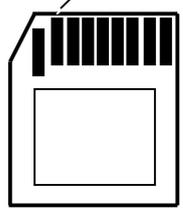
Fit as shown

4. Basic Configuration

1. Connect DVR Video Out to composite video monitor using BNC cable.

2. Connect DVR Audio Out to audio amplifier or monitor amplifier using BNC cable (optional).

3. Connect camera to Video In using BNC connection and power camera.

4. Connect microphone to Audio In using BNC connection and power Microphone.

5. Insert SD or SDHC card into DVR. The unit cannot record without this card.

6. Connect 12vDC <u>regulated</u> power supply minimum 200mA in 2.1 jack to DVR.

7. Switch on the DVR.

Display Screen Functions

● (yellow)	Yellow: Pre-Record function is on
	Red: DVR is in Record mode now
● (green)	Green: Motion detection is on
	Red: Triggered and beginning to record
CH1	Which channel is it now
2010/02/04 14:30:21	Date Stamp: Year / Month / Day Time Stamp: Hour / Minutes / Seconds
A	Overwrite function is on
(SD card icon)	SD card has been inserted
(00 : 09 :07)	How long the SD card can record

5. Installation Menu Settings

Press the Menu button to enter the software. The following display will be shown:
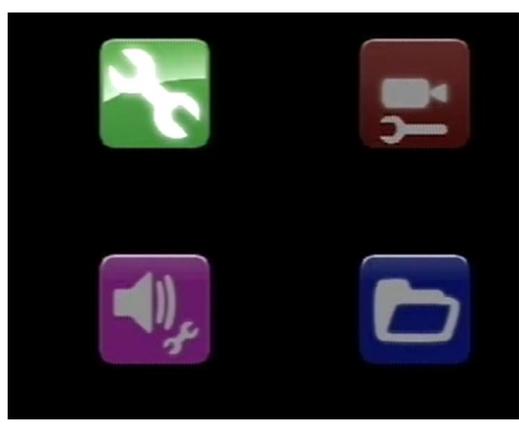
Select using arrow keys & press OK to enter SYSTEM SETTING
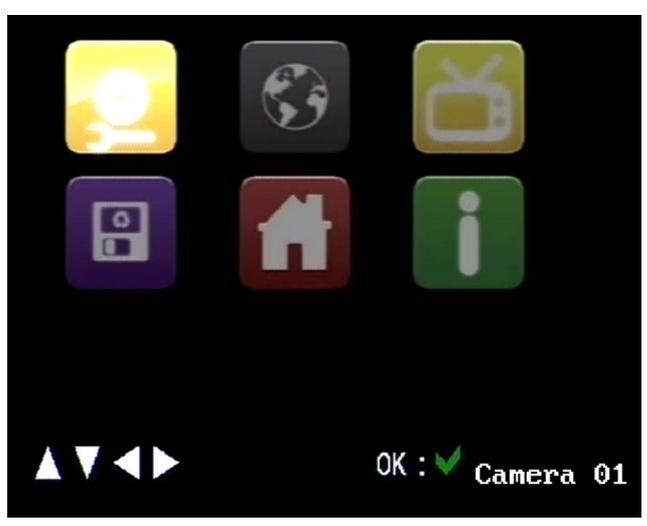
Select using arrow keys & press OK to enter Date/Time Setting

Date and Time Setting

Set correct date and time using arrow keys and press OK to return to menu.
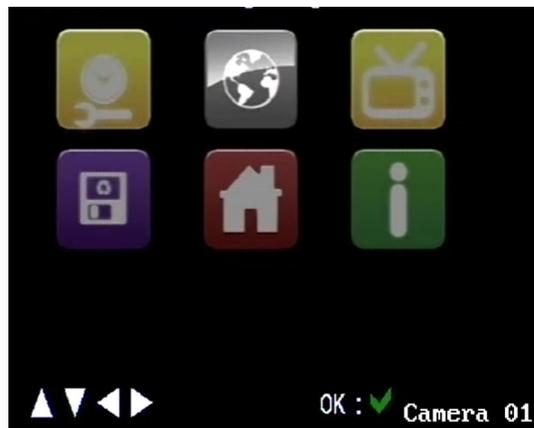
Set Language by selecting using arrow keys & pressing OK.

Language

Press OK to set and return to previous menu.
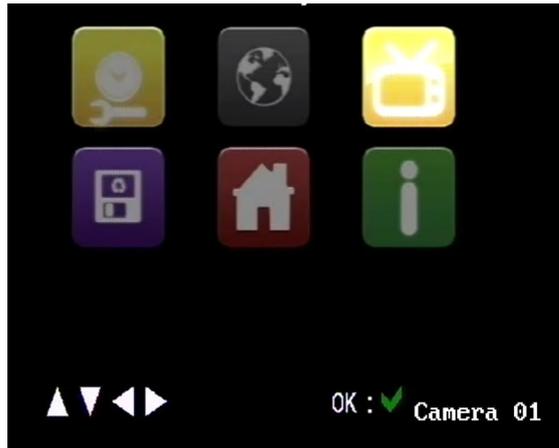
Select to set Video System using arrow keys and press OK.

Video System
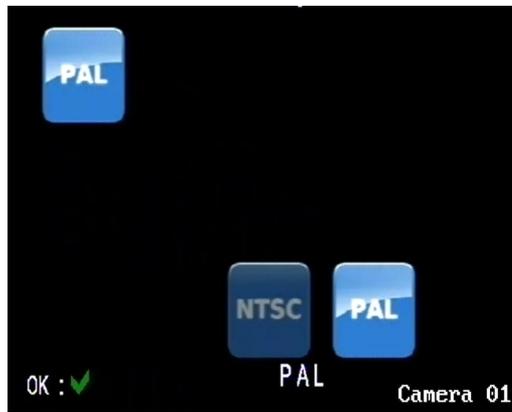
Video System selects PAL or NTSC mode. Ensure PAL is selected in the UK.

Press OK to return to menu and then press Menu again to return to standby mode.
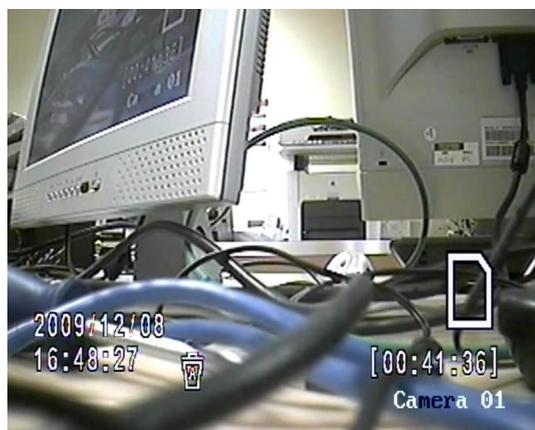
6.   Recording

Record Settings

Press the Menu button to enter the software menu.
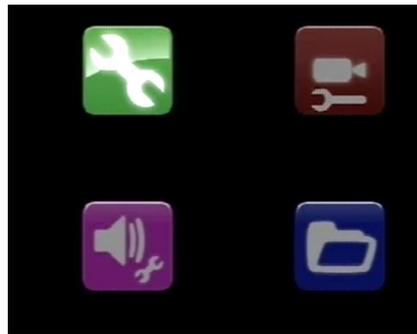
Select for Recorder Settings using arrow keys and pressing OK button.

	Recording Time	
Motion Detection Sensitivity & Area		Frames per Second
Schedule Setting		Record Overwrite
		N/A
Pre. Record		Recording Type
	Time Stamp	
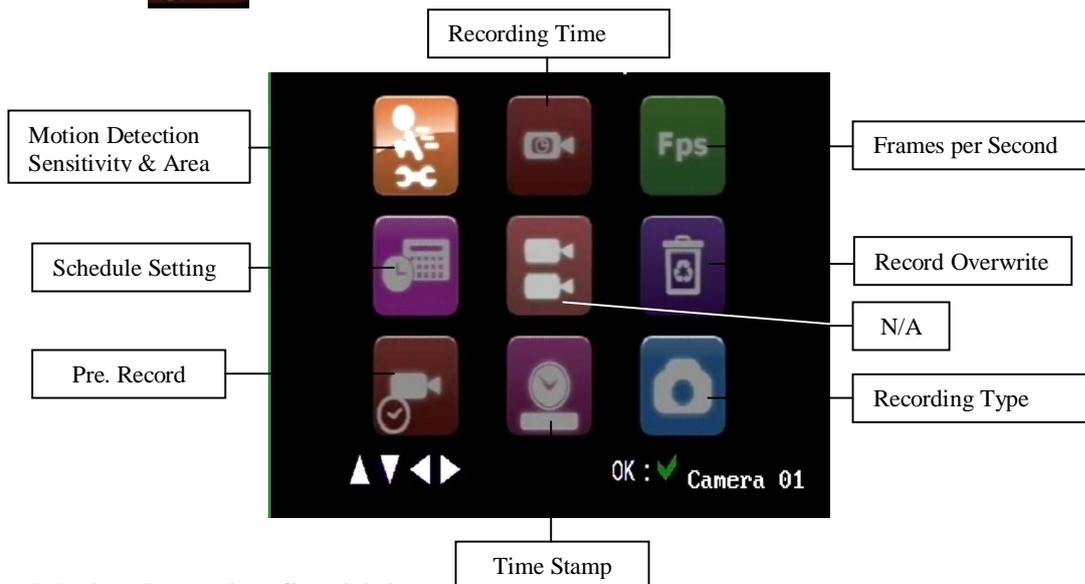
Motion Detection Sensitivity

Press to enter motion detection sensitivity setting.

The sensitivity box will be highlighted. Press the OK button and then use the up and down arrow keys to set the required level. The setting range is 1 ~ 8 and the default is 4. Press the OK button to set.

Motion Detection Area Setting

Press the down arrow key to highlight the Area Setting. Everything within the red box will be in the motion detect area.

Pressing the arrow keys will set the area.
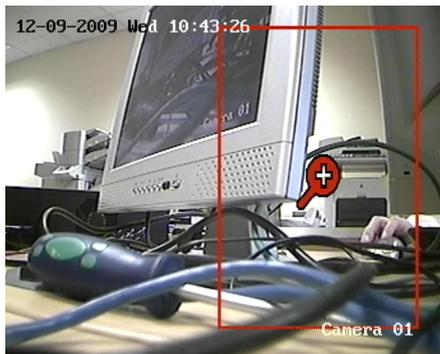
Press delete key to move area to position required.

Recording Time

From the Recorder Settings Menu select to set trigger record time.

Use the up and down keys to set the trigger record time.

The trigger time range is from 30 secs, 1 min, 5 mins, 10 mins or 20 mins. 30 seconds is default. Press the OK button to save and Return to menu.

Frame Setting

From the Recorder Settings menu

select and press OK.

Select frames per second from 1, 5, 10, 15, 20, 25 and 30 FPS. Select 30FPS only if in NTSC mode. Press OK to save and return to menu.

Schedule Setting

Select Schedule Setting and press OK.

You may select up to 4 time slot groups to allow
start/stop recordings automatically. Each of
the four groups are selected using arrow keys
and then press OK to select highlighted group.

You can select a Once Only selection or
Weekly selection and can set the record
time from and to. Note that you can select
CONT for continuous recording or MD
For motion detection.

Record Overwrite

Select to set the overwrite function.

This enables the DVR to overwrite old
data when the SD card is full. If this is
not set then the DVR will stop recording.
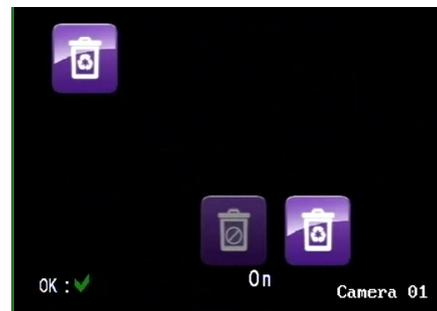
Pre. Record

Select to set the Pre. Record option.

When closing a recorded file before starting
the next, 2-3 seconds are lost for saving files.
Setting this option will overcome this problem.
Set this option on.
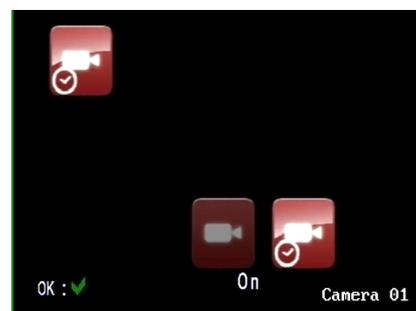
Time Stamp

Select to set the Time Stamp option.

This will display the time stamp on recorded files. It is recommended to set this on.
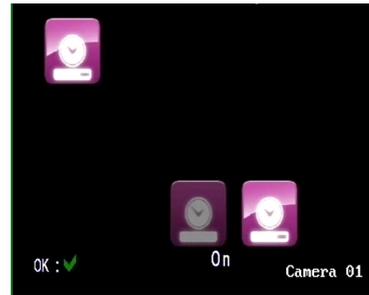
Recording Type

Select to set Recording Type.

You have two options. One is Video mode and the other is STILL frame mode.

Alarm Setting

The is not available in this DVR.
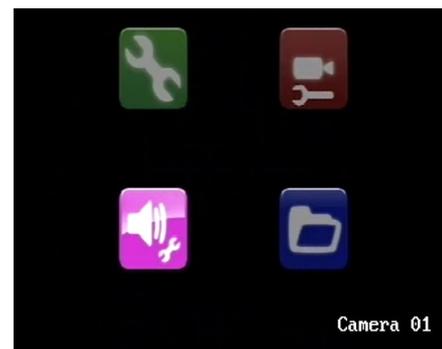
Running Motion Detection

In the Standby mode press OK to activate motion detection. The screen below will be displayed. Note that the motion detect item displays in green.

If there is movement within the red box area and the sensitivity setting is adequate recording will start and the motion detect displays in red.

Running Manual Record
To set manual recording just press the REC button. To stop recording just press the REC button again. Note that the motion detect red box and motion icon do not display. However if motion detection has been attempted you will need to reset manufacturer's default settings.

7.   Playback

Enter the menu. You will need to switch off recording to enter the menu by pressing the REC key.

Select to enter the Playback menu.

The Playback menu will display pages of date files. Select date with up or down arrow key and press the OK button.

Press the up and down keys to select the required recorded file within that date. Note that files produced will have two formats. Files with CH1 are video files and files with Ch1 are still frames.

Press the OK button to play.

The green spot moves across the time bar to display playback position. Pressing the right arrow key will advance playback in x2 speed and pressing the left arrow key will play backwards at x2 speed.

While in playback mode you can delete the video or still frame file by pressing the Delete key.

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8. System Utilities

To enter the System Utilities stop recording by pressing the REC button and then press Menu button.
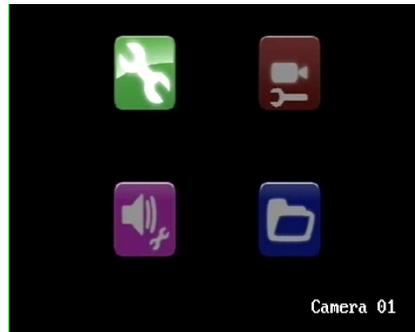
Format Utility

Select [icon] and press the OK button.

The following menu is displayed:
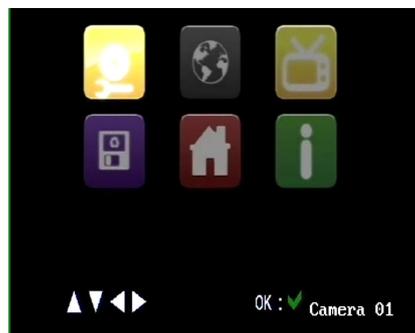
Select [icon] using the arrow keys
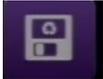
and press the OK button to enter the Format program. This will erase all files created.

Use the down arrow key to select YES and press the OK button.
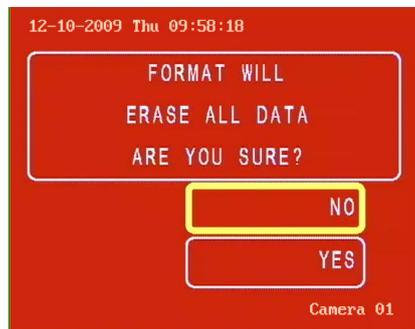
Restore Default Settings

Select [icon] using the arrow keys

and press the OK button to enter the Restore Default menu. Use the down arrow key to select YES and press the OK button. This does not delete created Video or Still frame files.
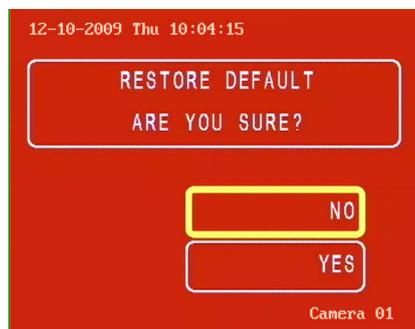
Note: The [icon] serial number is not utilised.

9. Recording Times & Technical Specifications

Recording Times

The DVR uses an SD card for recording backup. SDHC cards can also be used up to a maximum of 16Gb. The following table shows the record time in hours & minutes using different storage SD cards at the frame rate set in this DVR.

SD card	1Gb	2Gb	4Gb	8Gb	16Gb
1 FPS	8hrs 5min	17hrs 50min	35hrs 40min	71hrs 20min	142hr 40min
5 FPS	1hr 47min	3hr 34min	7hr 8min	14hr 16min	28hr 32min
10 FPS	53mins	1hr 46 min	3hr 32min	7hr 4min	14hr 8min
15 FPS	36mins	1hr 12mins	2hrs 24min	4hr 48min	9hr 36min
20 FPS	26mins	52min	1hr 44min	3hr 28min	6hr 56min
25 FPS	21mins	43min	1hr 25min	2hr 51min	5hr 42min

Technical Specifications

The SD or SDHC card can be played back in a PC using Windows Media Player and a DivX video codec. Alternatively a proprietary player can be used.

Model	MOB100
Format	MPEG4 video for AVI
Resolution	640 x 480
Frame Rate	1, 5, 10, 15, 20, 25 (30 for NTSC mode)
Mode	PAL or NTSC
Backup Media	SD or SDHC card up to 16Gb
Auto Recording	Motion Detect or Schedule Recording
Manual Recording	Keyboard
Schedule Time Recording	Continuous or Single shot recording
Power Requirements	12vDC @ 150mA 2watts regulated supply
Multi Language	English, Chinese, German, French, Spanish, Italian, Portuguese, Japanese, Dutch & Russian.

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