dashmate®
TECHNOLOGY DRIVEN™

HD Dash Camera

With 2.4" LCD Screen

720p Resolution

Motion Detection

120° Field of View

Auto Record

DSH-410 | USER MANUAL

CONTENTS

CAUTION

- Ensure you are using your Dash Cam within your countries' road laws. Please make sure you are familiar with your local road legislation before use.
- Please set time and date before you use this device to record.
- The notifications given by the Dash Cam are suggestions only, please drive to the actual conditions.
- The system is to be used only for non-commercial use, within the limits permitted by the relevant laws.
- Avoid using the Dash Cam near any devices that emit radio interference (e.g. Microwave Ovens).
- It is considered normal operation for the Dash Cam to get warm during use.

BATTERY WARNING

- Always charge the Dash Cam using the provided charger. Improper charging of the Dash Cam may result in failure of the internal battery.
- Never dismantle the Dash Cam or expose the internal battery.
- Do not dispose of the Dash Cam in fire.
- Dispose of the Dash Cam observing local regulations being mindful of the internal battery.

- Do not attempt to replace or expose the internal battery.

NOTES AND INSTALLATION

- It is advised that the Dash Cam is installed near the rear view mirror, at the top centre of the windshield for optimal operation.
- Make sure that the lens is within the range of the windscreen wiper to ensure a clear view when it rains.
- Do not touch the lens with your fingers. Finger prints left on the lens will result in unclear videos or photos. If photos or videos are blurred, please clean the lens gently with a microfibre cloth.
- Only use the included charging cable to power the Dash Cam.
- The DSH -410 is designed to be constantly connected to the included power supply , and is NOT designed to be used solely with the camera's built in battery.

NOTE

1. Please abide by the relevant laws in your local area; please do not use this product for illegal purposes.
2. Please insert your Micro SD memory card before recording video, taking care to insert it the right way to

avoid damage.

3. Battery charge will diminish over time. If the dash cam is not used for a long period of time, please ensure the dash cam is charged fully before use.

4. Please do not leave the dash cam in an excessively humid environment as it is not water resistant.

5. Please avoid using the dash cam in an excessively dusty environment so as to not obstruct the camera lens.

6. This dash cam is a precision electronic product; please do not expose it to strong shock, vibration, magnetic fields or heavy current fields.

7. Please do not attempt to disassemble or repair this product, doing so will void the warranty.

8. Please do not operate and set this product while driving. If interaction with the product is required, please do so before driving or stop driving.

9. Please charge the battery fully before first use.

10. To clean, please use a soft and dry cloth to get rid of dust. Do not use solvents to clean the product.

PRODUCT INFORMATION

For latest manual and product updates please visit our website **www.dashmate.com.au** or **www.dashmate.co.nz**.

INTRODUCTION

Thank you for purchasing a DSH-410 Dash Cam. Please read through instructions before attempting to install or use this product.

FEATURES

- Recording Full HD 720P footage
- 120° Field Of View
- Motion Detection
- Auto Start Up and Shut Down

PACKAGE CONTENTS

DSH-410

3M Mount

12/24V Power Adaptor

User Guide

PRODUCT DIAGRAM

1. 2.4" Screen
2. OK Button
3. Down Button
4. Park Mode Button
5. Up Button
6. Menu Button
7. Power in (Mini USB)

8. HDMI Mini
9. Lens
10. Mode Button
11. Micro SD Slot
12. Power Button
13. Mounting Socket
N/A. Not Used

GENERAL

- With the screen of the camera facing towards you insert your Micro SD Card (not included) into the Micro SD Card slot on the left side of the camera. The micro SD card should be inserted with the text facing towards you

- The Auto On/Off feature will power the DSH-410 up and begin recording as soon as it receives power from the USB Mini connection (eg. When you start your car)

INSTALLATION

- Clean the interior of your windscreen ensuring that the desired point of installation is free of dust and is not obstructing the drivers' view.

- Since the mount sticks on the wind shield with 3M mount, please ensure that the position of the camera is best located to capture maximum area.

- We suggest you to power-on the dash camera and test the playback image on screen first prior to removing the 3M tape for installation.

- Only remove the 3M tape when you are satisfied with the dash camera placement and image position is delivering the best possible view of the road ahead.

OPERATION

- Once the camera is set up with the included Mini USB power supply and a Micro SD Card (not included) has been installed, the DSH-410 will automatically power on and start recording when the car is started.

- The DSH-410 is designed to be primarily powered by your car's DC power. The on board battery is for short use only and mainly serves to power the cars Park Mode and brief use for documenting external damage in the case of an incident.

- While recording you will not be able to access the menus or change modes, to stop a recording push the OK button.

- The DSH-410 is optimised for Micro SD Cards class 6 and above with a capacity up to 32GB.

- The on board 'G- Sensor' registers any activity that could be an accident and registers the footage as a 'Locked' file ensuring that the footage cannot be accidentally recorded over. To remove 'Locked' files you must first unlock them using the 'Protect' menu (navigating to PLAYBACK mode using the MODE key, selecting the 'Locked' file, pushing the MENU button and selecting 'Protect').

- Footage can be manually 'Locked' by pressing the Menu button while recording.

- The built in microphone can be quickly muted or un-muted in VIDEO mode by pushing the UP button

(the microphone cannot be muted or un-muted while when recording).

- To quickly activate 'Park Mode', push the Park Mode button while in VIDEO mode.

COMPUTER CONNECTION

Videos and Photos can be retrieved from the DSH-410 by connecting the Micro SD Card to your computer using a Micro SD Card adapter (not included).

- When you connect the Micro SD Card to your computer, it will display in your file browser as a removable drive.
- Videos and Photos will be stored in the file named "DCIM".
- For smoother video playback, save videos files to your computer. Mac users may need to download a third party player such as 'VLC' to play these files as AVI is not natively supported on Apple computers.

INTERFACE

The DSH-410 has three modes, VIDEO, STILL and PLAYBACK. You can cycle through these modes using the MODE button. Each modes' respective menu can be accessed by pushing the MENU button. While in the menu, the UP and DOWN buttons are used to navigate and the OK button is used to select and confirm. The MODE button is used to exit the menu.

SET TIME AND DATE

It's important to have your time and date set correctly as it will record directly onto your video stream and is critical information to prove your case to insurance companies etc. To set the time on your DSH-410 follow the directions below.

- Ensure you are not currently recording. If the red record indicator is flashing at the top left of the DSH-410's screen, push the OK button to stop recording.
- Push the MENU button twice, taking you to the SETUP menu.
- Using the DOWN button highlight the setting named Date/Time and push OK.
- Use the UP and DOWN buttons to cycle through the numbers and use the OK button to confirm and move between fields.
- Time is set and displayed in a 24 hour format.
- After setting the date and time the bottom DD/MM/YY fields are used to change format that the date will be displayed in the Date/Time menu.
- Once the date and time have been set, the MENU button can be used to save and exit back to the SETUP menu.

SET LOOP RECORDING

Your DSH-410 records in a Loop, which means older blocks of video files will be overwritten once the memory card becomes full. You can set the amount of video block time the DSH-410 will record for before a new video file is started. To change the length of the videos that the DSH-410 records follow the directions below:

- Use the MODE button to make sure you are in VIDEO mode (Video camera icon will be displayed in the top left corner of the screen).

- Ensure you are not currently recording. If the red circle record indicator is flashing at the top left of the DSH-410's screen, push the OK button to stop recording.

- Push the MENU button taking you to the VIDEO menu.

- Use the DOWN button to highlight the setting named Loop Recording and push OK.

- Use the UP and DOWN buttons to highlight the required video length (The OFF setting will record the longest possible loops keeping the file size under 2GB, which is around 5 minutes at 720P resolution).

- To confirm selection push the OK button, the DSH-410 will take you back to the VIDEO menu.

SET G-SENSOR

The G-Sensor monitors any unnatural bumps or shakes and logs the associated footage as Locked ensuring any footage of potential crashes is not recorded over with

the regular loop footage. To set the G-Sensor follow the directions below

- Use the MODE button to make sure you are in VIDEO mode (Video camera icon will be displayed in the top left corner of the screen).
- Ensure you are not currently recording. If the red circle record indicator is flashing at the top left of the DSH-410's screen, push the OK button to stop recording.
- Push the MENU button taking you to the VIDEO menu.
- Use the DOWN button to highlight the setting named G-Sensor and push OK.
- Using the UP and DOWN button, highlight the required sensitivity of the G-Sensor (2G is the most sensitive setting only requiring small bumps to log footage as Locked, and 8G is the least sensitive requiring a larger amount of activity to log footage as Locked).
- To confirm selection push the OK button, the DSH-410 will take you back to the VIDEO menu.
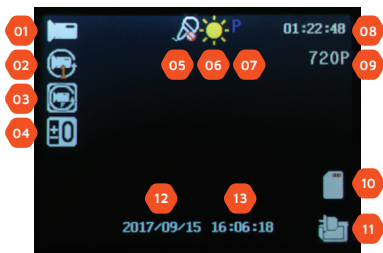
SET MOTION DETECTION

Motion Detection monitors on screen movement and will start recording when movement is detected. Motion Detection will also stop recording after 10 seconds of no on screen movement. To set up Motion Detection on your DSH-410 follow the directions below.

- Use the MODE button to make sure you are in VIDEO mode (Video camera icon will be displayed in the top left corner of the screen).

- Ensure you are not currently recording. If the red circle record indicator is flashing at the top left of the DSH-410's screen, push the OK button to stop recording.

- Push the MENU button taking you to the VIDEO menu.

- Using the DOWN button, highlight the setting named Motion Detection and push OK.

- Use the UP and DOWN buttons to highlight either OFF or ON.

- To confirm selection push the OK button, the DSH-410 will take you back to the VIDEO menu.

VIDEO

This is the default start up screen and is how all recording is triggered. From this screen you can manually start and stop recording using the OK button. Footage can be manually locked by pressing the MENU button protecting it from being recorded over. When the DSH-410 is not recording in this mode, 'Park Mode' can be turned on and off with a press of the Park Mode button.

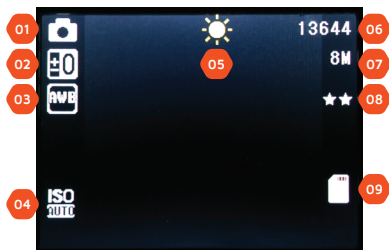|	
1. Video Mode	8. Recording Duration
2. Loop Recording	9. Resolution
3. Motion Detection	10. Micro SD Card
4. Exposure	11. Power Connection
5. Muted Recording	12. Date
6. Flash (Off)	13. Time
7. Park Mode	

VIDEO MENU

	Menu	Setting	Remark
Video	Resolution	720P 1280 x 720 WVGA 848 x 480 VGA 640 x 480	Higher resolution gives your footage more detail **Default: 720P - 1280 x 720**
	Loop Recording	OFF 1 MINUTES 2 MINUTES 3 MINUTES 5 MINUTES	'Loop Recording' defines the length of time the DSH-410 records before creating a new file. Using the Off setting will record the longest possible loops under the file size of 2GB (around 7 mins at 720P). **Default: 1 Minute**
	Exposure	+2.0 +5/3 +4/3 +1.0 +2/3 +1/3 0.0 -1/3 -2/3 -1.0 -4/3 -5/3 -2.0	Adjusting the exposure will counter balance high or low light conditions. To brighten your footage, adjust to a higher exposure. To make your footage darker change to a lower exposure. The default setting for this is balanced at +0.0. **Default: 0.0**

VIDEO MENU CONTINUED

	Menu	Setting	Remark
Video	Motion Detection	OFF ON	When activated, the Motion Detection feature allows visible movement to trigger recording. **Default: Off**
	Record Audio	OFF ON	Turning this setting off mutes the built in microphone. **Default: On**
	Date Stamp	OFF ON	Date stamps the footage. **Default: On**
	G Sensor	OFF 2G 4G 8G	Setting to adjust the sensitivity of the G sensor. 2G is the highest sensitivity 8G is the lowest **Default: 4G**.
	LDW	OFF ON	Lane Departure Warning warns you when you are leaving your lane. **Default: Off**

STILL

This screen is used to take still photos.

1. Still mode
2. Exposure
3. White balance
4. ISO
5. Day/night mode
6. Image number
7. Resolution
8. Image quality
9. SD card

STILL MENU

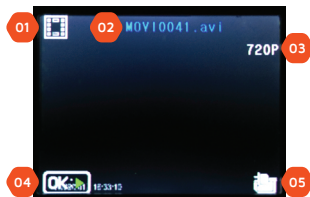|	Menu	Setting	Remark
Still	Resolution	12M 4032 x 3024 10M 3648 x 2736 8M 3264 x 2448 5M 2592 x 1944 3M 2048 x 1536 2MHD 1920 x 1080 1.3M 1280 x 960 VGA 640 x 480	Higher resolution gives your photos more detail.
	Sequence	OFF ON	The sequence setting will set the DSH-410 to take a sequence of 3 photos every time the shutter is triggered.
	Quality	Fine Normal Economy	Sets the quality of the image. Lower quality images are more space efficient.
	Sharpness	Strong Normal Soft	Sharpness determines how bold the camera focus is.
	White Balance	Auto Daylight Cloudy Tungsten Fluorscent	White balance gives the option of 4 preset lighting settings to easily allow you to optimise your DSH-410 for your lighting.

STILL MENU CONTINUED

<table>
<tr><th></th><th>Menu</th><th>Setting</th><th>Remark</th></tr>
<tr><td rowspan="6">Still</td><td>ISO</td><td>Auto
100
200</td><td>The lower the ISO, the lower the sensitivity of the image will be. Higher ISO will capture more light and reduce motion blur.</td></tr>
<tr><td>Exposure</td><td>+2.0
+5/3
+4/3
+1.0
+2/3
+1/3
0.0
-1/3
-2/3
-1.0
-4/3
-5/3
-2.0</td><td>Adjusting the exposure will counter balance high or low light conditions. To brighten your photos, adjust to a higher exposure. To make your photos darker change to a lower exposure. The default setting for this is balanced at +0.0.</td></tr>
<tr><td>Anti Shaking</td><td>OFF
ON</td><td>This feature reduces blur caused by shaking when taking hand held photos.
Default: On</td></tr>
<tr><td>Quick Review</td><td>OFF
2 Seconds
5 Seconds</td><td>Quick review sets the amount of time a photo will display on the screen after being taken.
Default: 2 Seconds</td></tr>
<tr><td>Date Stamp</td><td>OFF
ON
Date/Time</td><td>Date stamps the footage.
Default: On</td></tr>
</table>

PLAYBACK

In this screen the UP and DOWN buttons are used to navigate your videos and photos, and the OK button is used to play and pause selected videos.

1. Playback mode
2. File Name
3. Resolution
4. Play function
5. Power

PLAYBACK MENU

	Menu	Setting	Remark
Playback	Delete	Delete Current Delete All	Allows you to delete either the selected or all photos and video stored on the inserted Micro SD Card.
	Protect	Lock Current Unlock Current Lock All Unlock All	Allows you to lock or unlock the selected, or all videos and photos stored on the inserted Micro SD Card.

SETTINGS MENU

	Menu	Setting	Remark
Settings	Park Mode	OFF 2G 4G 8G	Detect impacts to your vehicle while parked and activates a recording. **Default: Off**
	Date / Time	*Set Time and Date*	Using the UP DOWN button are used to cycle through numbers and the OK button is used to select and move between fields. Once you have finished use the MENU button to save and return to the Settings menu.
	Screen Saver	OFF 3 Mins 5 Mins 10 Mins	Screen Saver determines the amount of time before the screen powers down (even when the screen powers down in screen saver mode the DSH-410 will keep recording). **Default: Off**
	Beep Sound	OFF ON	Mute control for key beeps. **Default: On**
	Language	*Set Language*	Select Menu language. **Default: English**
	Frequency	50Hz 60Hz	Screen Hz setting **Default: 50 Hz**

SETTINGS MENU CONTINUED

	Menu	Setting	Remark
Settings	Flash	OFF ON	This Setting is not used on the DSH-410
	Format	Cancel OK	Format the inserted Micro SD Card, deleting all photos, videos and data.
	Default Setting	Cancel OK	Restore factory settings.
	Version	Version Number	Displays the installed firmware version.

SPECIFICATIONS

Screen	2.4"
Lens	120°
Camera Rotation	180°
Minimum Light	1 LUX
Video Resolution	High Definition 720P
Memory Type	Micro SD Card
Capacity	Supported Up To 32GB/ Class 6 Upward
Microphone/Speaker	Built in

WARRANTY TERMS & CONDITIONS

Our goods come with guarantees that cannot be excluded under the Australian & New Zealand Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided in addition to your rights under the Australian & New Zealand Consumer Law.

Directed Electronics warrants that this product is free from defects in material and workmanship for a period of 12 months from the date of purchase or for the period stated on the packaging. This warranty is only valid where you have used the product in accordance with any recommendations or instructions provided by Directed Electronics.

This warranty excludes defects resulting from alterations of the product, accident, misuse, abuse or neglect

In order to claim the warranty, you must return the product to the retailer from which it was purchased or if that retailer is part of a National network, a store within that chain, along with satisfactory proof of purchase. The retailer will then return the goods to Directed Electronics. Directed Electronics will repair, replace or refurbish the product at its discretion. The retailer will contact you when the product is ready for collection. All costs involved in claiming this warranty, including the cost of the retailer sending the product to Directed Electronics, will be borne by you.

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