dashmate®

Full HD Dash Camera
with 3.0" LCD Screen & Motion Detection

1080p
FULL **HD**

1080p
Resolution

120°

120° Field
of View

G-Sensor

3.0"

3.0"
LCD Screen

DSH-440 | USER MANUAL

CAUTION

- Ensure you are using your Car Dash Cam within your countries' road laws Please make sure you are familiar with your local road legislation before use.
- Avoid leaving your Dash Cam in direct sunlight for extended periods of time in an unventilated space.
- Please set time and date before you use this device to record.
- The notifications given by the Car 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 Car Dash Cam near any devices that emit radio interference (e.g. Microwave Ovens).
- It is considered normal operation for the Car Dash Cam to get warm during use.

BATTERY WARNING

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

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. To avoid losing important footage, it is suggested that you back-up footage on a weekly basis to your computer.

4. Please ensure the windscreen mounting bracket is installed securely to avoid damaging the dash cam.

5. 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.

6. The working temperature of the dash cam is 0° to 40° degrees Celsius.

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

8. Please avoid shooting footage directly into the sun so as to avoid damage to the dash cam.

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

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

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

12. 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.

13. Please charge the battery fully before first use.

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

1. PRODUCT INFORMATION:

For latest manual and product updates please visit our website.

1.1 INTRODUCTION:

Thank you for purchasing a DSH-440 Dash Cam. Please read through instructions before attempting to install or use this product.

1.2 FEATURES:

• Recording Full HD 1080P footage
• WiFi Smart Device Connectivity
• 120° field of view
• Motion Detection
• Automatic Emergency recording and collision detection

1.3 PACKAGE CONTENTS:

DSH-440   Suction Mount   User Manual   Power Cable

1.4 PRODUCT DIAGRAM:
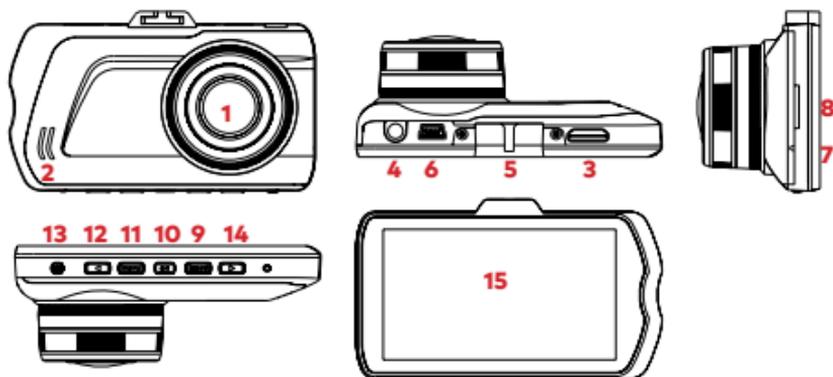
1. Wide angle Lens	**9.** MODE Button
2. Speaker	**10.** OK/Record Button
3. HDMI Mini Port (Adapter required for HDMI not included)	**11.** MENU Button
4. AV Out Port	**12.** UP Button
5. Mounting Socket	**13.** Power Button
6. Mini USB Port	**14.** DOWN Button
7. Microphone	**15.** 3" Screen
8. Micro SD Card Slot	

2. SET UP

2.1 GENERAL:
- Insert your Micro SD Card (not included) into the Micro SD Card slot under the protective rubber flap on the underside of the camera.
- The Auto On/Off feature will power the **DSH-440** up and begin recording as soon as it receives power from the USB Mini connection

  (eg. when you start your car)

2.2 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.
- Attach the **DSH-440** to the included mount by inserting the mount's lock peg into the mounting socket on the **DSH-440**, firmly sliding the mount from front to back along the mount connection locking the DVR in place.
- Remove the protective stickers on the suction cup of the mount, the 3.0" LCD Screen and the lens.
- With the mount's suction mount lock switch in the up position, press the suction cup onto the desired position on your windscreen.
- Lock the mount in place by pressing the lock switch in the down position.
- Use the nut to adjust the angle and position of the **DSH-440** and tighten to lock your positioning.
- Finally connect the **DSH-440** to power using the included USB Mini power supply.

3. 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-440** will automatically power on and start recording when the car is started.
- The **DSH-440** 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-440** is optimised for Micro SD Cards class 4 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 the **DSH-440** is recording).
- To quickly activate '**Park Mode**', quickly push the **POWER** button while in **VIDEO** mode.
- While recording you can switch between '**Night**' and '**Day**' lighting modes by pushing the **DOWN** button.

4. COMPUTER CONNECTION:

Videos and Photos can be retrieved from the **DSH-440** by either connecting the camera directly to your computer using the included Mini USB Cable or by connecting the Micro SD Card using a Micro SD Card adapter (not included).

- When you connect the **DSH-440** to your computer, your **DSH-440** will give you the option of '**Mass Storage**', or '**PC Camera**'. Select '**Mass Storage**'.
- The **DSH-440** will now appear on your computer as a **Removable Disk** drive.
- Open the file explorer on your computer and find the camera listed as a removable disk under "**Devices**"
- 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.

5. INTERFACE:

The **DSH-440** 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.

6. 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 to prove your case to insurance companies etc. To set the time on your **DSH-440** follow the directions below.

- Ensure you are not currently recording. If the red record indicator is flashing at the top left of the **DSH-440**'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.
- Once the date and time have been set, the **MENU** button can be used to save and exit back to the **SETUP** menu.

7. SET LOOP RECORDING:

Your **DSH-440** has the ability to record in a Loop mode, 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-440** will record for before a new video file is started.

To change the length of the videos that the **DSH-440** 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-440**'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 7 minutes at 1080P resolution).
- To confirm selection push the **OK** button, the **DSH-440** will take you back to the **VIDEO** menu.

8. 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-440**'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-440** will take you back to the **VIDEO** menu.

9. 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-440** 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-440**'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-440** will take you back to the **VIDEO** menu.

10. 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-440** is not recording in this mode, the **UP** button can be used to quickly mute and un-mute the on board microphone.

'**Park Mode**' can be turned on and off with a quick press of the power button.

'**Day**' and '**Night**' lighting mods can be toggled with the **DOWN** button.

1. Recording	**8.** LED
2. Video Mode	**9.** Recording Duration
3. Loop Mode	**10.** Resolution
4. Motion Detection	**11.** SD Card
5. Exposure	**12.** Power
6. G-Sensor	**13.** Date
7. Microphone	**14.** Time

Mode	Menu	Setting	Remark
Video	Resolution	1080FHD 1920x1080 1080P 1440x1080 720P 1280x720P WVGA 848x480 VGA 640x480	Higher resolution gives your footage more detail
	Loop Recording	Off 1min 2min 3min 5min	'Loop Recording' defines the length of time the DSH-440 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 1080P).
	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.
	Motion Detection	Off / On	When activated, the Motion Detection feature allows visible movement to trigger recording.
Video	Record Audio	Off / On	Turning this setting off mutes the built in microphone.
	Date Stamp	Off / On	Date stamps the footage.
	G-Sensor	Off / On	Setting to adjust the sensitivity of the G sensor. 2G is the highest sensitivity 8G is the lowest.

11. STILL:

This screen is used to take still photos.
In this screen the down button is used to toggle the Day/Night lighting mode.
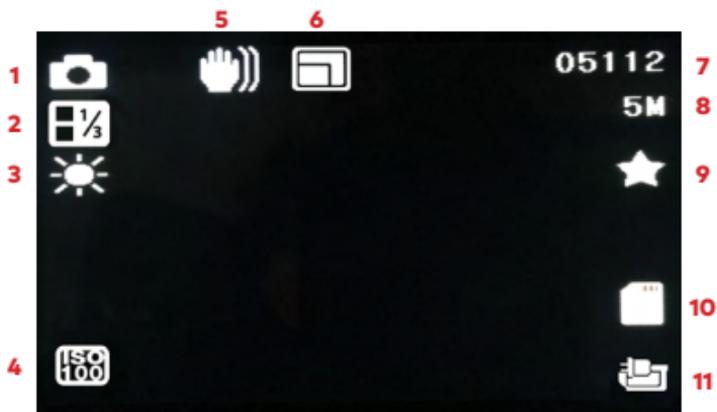
1. STILL Mode

2. Exposure

3. White Balance

4. ISO

5. Anti-Shaking

6. Sequence

7. Photo Number

8. Resolution/MP

9. Resolution

10. SD Micro Card

11. Power

11.1 STILL MENU:

Mode	Menu	Setting		Remark
Still	Resolution	12M 4032x3024 10M 3648x2736 8M 3264x2448 5M 2592x1944 3M 2048x1536 2MHD 1920x1080 1.3M 1280x960 VGA 640x480		Higher resolution gives your photos more detail
	Sequence	Off On		The Sequence setting will set the DSH-440 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 Fluorescent		White balance gives the option of 4 pre-set lighting settings to easily allow you to optimise your DSH-440 for your lighting.
	ISO	Auto 100 200		The lower the ISO, the lower the sensitivity of the image will be. Higher ISO will capture more light and reduce motion blur.
	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 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.
	Anti-Shaking	Off On		This feature reduces the amount of blur caused by shaking when taking hand held photos.
	Quick review	Off 2 Seconds 5 Seconds		Quick Review sets the amount of time a photo will display on the screen after being taken.
	Date Stamp	Off Date/ Time	Date	Date stamps the footage.

12. 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. Video/Photo Name
3. Resolution
4. Recording Date/Time
5. Power

12.1 PLAYBACK MENU:

Mode	Menu	Setting	Remark
Playback	Resolution	Delete Current Delete All	Allows you to delete either the selected or all photos and video stored on the inserted Micro SD Card.
	Sequence	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.

13. SETTINGS MENU

Mode	Menu	Setting	Remark
Settings	Date/Time	*Set Time and Date*	Using the UP DOWN buttons 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.
	Auto Power Off	Off 1 Minute 2 Minutes 3 Minutes 4 Minutes 5 Minutes	Sets the amount of time of inactivity before the DSH-440 powers down.
	Screen Saver	Off 3 Minutes 5 Minutes 10 Minutes	Screen Saver determines the amount of time before the screen powers down (even when the screen powers down in screen saver mode the DSH-440 will keep recording).
	Beep Sound	Off On	Mute control for key beeps.
	Language	Select Language	Select Menu language.
	TV Mode	NTSC PAL	Changes the output format to either PAL or NTSC.
	Frequency	50Hz 60Hz	Screen Hz setting
	Flash	Off On	This Setting is not used on the DSH-440
	Format	Cancel OK	Format the inserted Micro SD Card, deleting all photos, videos and data.
	Default Setting	Cancel OK	Restore factory settings.
	Version	OK	Displays the installed firmware version.

14. SPECIFICATIONS

Screen	3"
Lens	120°
Imaging Sensor	5.0MP
Camera Rotation	180°
Minimum Light	1 Lux
Video Resolution	1080P / 720P / 480P
Video Format	.AVI
Frames	30 Fps
Image Resolution	5M / 2M / 1.3M / VGA
Photo Format	.JPG
Motion Detection	Supported
Memory Card Type	Micro SD Card (up to 32GB)
Capacity	Support up to 32GB / class 4 upward
USB Port	USB 2.0
Power Port	USB 5V / 1A
Frequency	50Hz / 60Hz
Battery Capacity	300mAh
Microphone/Speaker	Built-In
Languages	English / French / Spanish / Deutsch / Italian / Traditional Chinese / Simplified Chinese / Japanese

Note: Product specifications may be subject to change without notice.

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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