

RoadScan Canada
DH22
User Instruction Manual



CAMERA LAYOUT



CAMERA LAYOUT

1. Status Indicator LED
 - a. Solid green = camera is in standby mode (power on but not recording)
 - b. Solid red = camera is on pre-recording mode
 - c. Flashing red = camera is recording
 - d. Flashing yellow = camera is recording audio only
2. Charging indicator LED
 - a. Blue = charging status
 - b. White = camera is fully charged
3. Pogo pin - connection to the charging dock
4. Lens
5. Infrared LED (night vision for US customers)
6. Flashlight
 - a. Hold the Fn button to turn on/off the the flash light
7. Light Sensor
 - a. Automatically detects low light situations
8. USB port
 - a. For power charging and transfer of data
9. Snapshot button
 - a. Take photos
 - b. Toggle between video/photo and audio in playback mode
10. Audio Recording / mute
 - a. Press to record audio only when in standby mode
 - b. Press to enable/disable video mute when the camera is in record mode
11. LCD Screen
12. Playback & Scroll up button
 - a. In menu or Playback mode, short press to scroll up to the next page or file
 - b. In standby or video recording mode, hold to zoom out
 - c. In standby mode, press to review files
 - d. In playback mode, press to rewind video
13. OK button
 - a. In menu setup, short press to make a selection
 - b. In playback mode, press to pause/resume video or audio playback
14. Menu & Scroll Down button
 - a. In standby mode, short press to enter menu setup
 - b. In menu or playback mode, short press to scroll down the next page or file
 - c. In standby mode or video recording mode, hold to zoom in
 - d. In playback mode, press to fast forward video

CAMERA LAYOUT

15.Video recording button

- a. In power-on mode, press to start/stop recording
- b. In power-off mode, hold the button for 3 seconds to power on the camera and start the video function

16.Fn button

- a. Press to turn IR LED on/off when IR is in manual mode
- b. Hold to turn on/off the flashlight

17.Power button

- a. Hold for 3 seconds to power on/off the camera
- b. In power mode, short press to turn the LCD screen off/on
- c. Short press to exit to the previous interface when in the menu or playback mode



Power

Power On – Hold the power button on the top right for 3 seconds – a chime and a WELCOME screen will temporarily be displayed. The view of the camera lens will be displayed on the main LCD screen and LED at top of camera will be solid green.

Power Off – hold the power button for 3 seconds – A GOODBYE screen will temporarily be displayed and then the camera will **shut down**. LED light will turn off (unless the camera is plugged in).

Power On with Video Record – When the camera is **powered off** hold the video record button for 3 seconds and the camera will **power on** and begin **recording** (for some models).

Power On with Audio Record – When the camera is **powered off** hold the audio button for 3 seconds and the camera will **power on** and begin recording audio.

Video

To start a recording – while the camera is on and not recording, press the video record button on the right side of the camera (from the screen). The device will vibrate, and a voice will sound indicating that the recording has started. The white video camera symbol at the top left corner of the screen will now be red and flashing. The LED light will be flashing red.

To stop a recording – while the camera is recording press the video record button and the camera will vibrate and recording will stop.

Photographs

Press the photo button to take a photograph. Photographs can be taken when the camera is either in or not in video record mode. These files will show as JPEG files on your PC.



Statements/ Audio Button

Record a statement – When the device is **not recording** – press the audio button to record a statement. The LED will be flashing yellow. To stop an audio recording, simply press the audio button again.

Highlight an audio recording – while the camera is recording a statement press the highlight button to highlight the audio file to be able to access the file faster and more easily once the audio has been downloaded onto a computer.

One Key Resolution Switch

Hold the audio button to toggle between 1280x720 P30 and 1920x1080 P30. If one key resolution switch is activated during recording, recording will temporarily stop, and a new recording segment will start. Note: If any other resolution is chosen prior to using the onekey resolution switch (see menu options), the resolution will be switched to 1920x1080 P30 when one key resolution switch is activated.

Backing out of Screens

Press the power button to back out of any screens. You can also use the statement, camera, and video record buttons to back out of setting menus and setting sub menus.

Setting the Password

The password can be changed In the menu option. ***PLEASE ENSURE YOU REMEMBER YOUR NEW PASSWORD AS IT CANNOT BE RETRIEVED WITHOUT SENDING IT BACK TO THE MANUFACTURER.*** The new password will be required to view playback or via the computer.



Playback

The playback screen can be viewed by pressing the **Play/Pause button** (located to the left under the LCD view screen) when the camera is in standby mode and on the main display screen. You will be prompted to enter a password. The default password is '0' – 6 times, press the **OK button** - 6 times. If you have changed the password, use the **Browse-up and Browse-down buttons** to scroll through other password entry options and Press **OK button** to select password entries.

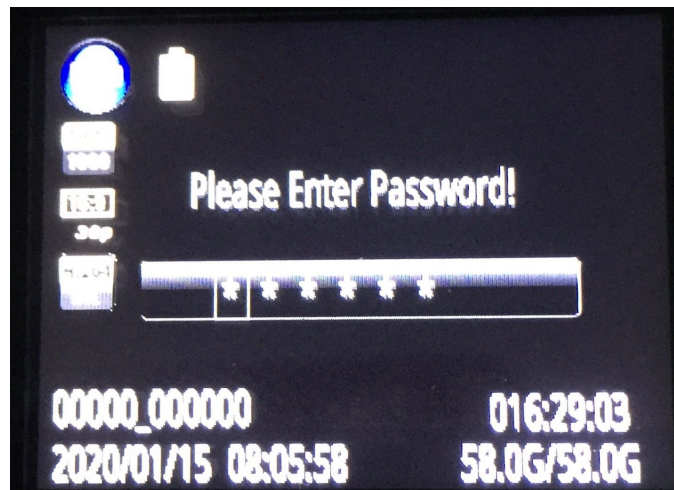
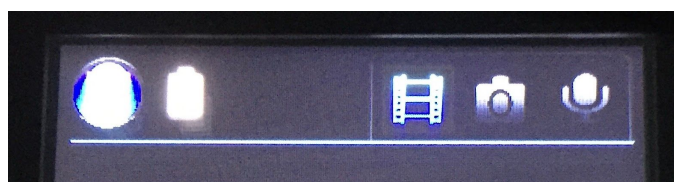


Figure 1

If you make a mistake when entering password, **hold the Browse-up button** to move back one entry and **hold Browse-down Key** to move forward one entry.

Once you have entered the password correctly, use the **Browse-up button** to tab left and **Browse-down button** to tab right over either video, camera, or audio file tabs and press the OK on the selected file tab to view the files.





From the selected tab, to select which file to view you can tab over the files using the **Browse-up button** to scroll left and the **Browse-down button** to scroll right and press the **OK button** to select file. Pressing the **OK button** on a video or audio file **will automatically start playing the file.** – Use the **OK button** to pause and play the file.

Use the **Browse-down button** to **fast forward** and use the **Browse-up button** to **rewind** videos. You can increase the speed of fast forward and rewind by tapping the **browse buttons** more than once. Video mode **has X2, X4, X8, X16, X32, X64, and X128 speed (both forward and reverse).**

Menu Access

Press the **Menu button**, otherwise known as the **browse-down button**, (located to the right of the **OK button**) while on the main LCD view screen and camera is in standby mode. You will be prompted to enter a password (see Playback for password entry instructions).

After password is entered, the following screen should pop up:



Figure 3

Use the **Browse-down button** to scroll down and **Browse-up button** to scroll up through menu items and **OK button** to select a menu item and enter its sub menu. Finally, in the sub menus, use the **Browse-up button** to scroll left, the **Browse-down button** to scroll right, and the **OK button** to select option.

Press the **Power button** to back out of sub menus without making changes to the settings.

REMINDER: While in the settings menu or sub menus, pressing the photo, video record, or audio record button, will return you to the main LCD view screen.



Menu Options

***Look at the top right of the menu and the number out of 32 indicates which menu option you are on.**

- 1/33 – **Set camera video resolution:** Options are 2304x1296 30P, 1920x1080p 30p, 1440x1080p 30P, 1280x720 60P, 1280x720 30P, 848x480 60P, 848x480 30P, and 720x480 30P.
- 2/33 – **Set the Megapixels:** This means setting the size of the photo. Options are 5M, 12M, 20M, 25M, 30M, 40M
- 3/33 – **Burst on / off:** (Burst on allows to snap multiple photos at once upon pressing the photo button). Options are 2, 3, 5, 10, 15, 20 and 30 photos.
- 4/33 - **Record Cam:** Allows to set the rear screen to show just external mini camera or to both mini cam & main camera when the mini cam is plugged in - this setting allows the camera to record from both lens' at the same time, put one on the front and one on the back (like eyes in the back of your head)
- 5/33 – **Self Timer:** Allows for a timed delay before a photo is taken. Options are 5, 10, 20, 30 seconds or 1 minute.
- 6/33 – **Quality (Photo quality):** allows to change the quality of the resolution of the photos taken with the camera. Options are S.Fine (Super Fine), Fine, and Normal.
- 7/33 – **Pre-record:** A recording can start with up to 30 seconds of footage captured by the camera prior to starting a video recording.
- 8/33 – **Post record:** After stopping a recording the camera will continue to record for the set amount of time. Press the record button a second time to manually cancel a set delay. Options are off, 5 seconds, 1 minute, 10 minutes, 20 minutes and 35 minutes.
- 9/33 – **CarDV mode:** Leave off as this is not a feature on this camera.
- 10/33 - **Auto-Record:** When the camera is turned on the video will automatically start to record; on/off
- 11/33 - **Loop Record:** When on, the camera will overwrite the oldest video on file with the most current video file once the memory is full.
 - **IT IS RECOMMENDED TO LEAVE THIS FUNCTION OFF.**
- 12/33 – **Split Time:** Automatically splits video recordings into segments of set times to more easily manage recordings. **Each segment will be a separate media file:** Options are off and 1, 3, 5, 10, 15, 30, and 45 minutes. The optimum recommended time is 15 minutes.
- 13/33 – **Slide Show:** When viewing a photo file in Playback mode in photo files tab, photos will automatically be scrolled through.
- 14/33 – **Infrared:** Manual or Automatic: While under dark circumstances, infrared LED will help record clear image or video in HD.
 - **Auto:** In low light situations (3 Lux), 4 IR LED will be turned on automatically, camera switches to infrared filter lens, video image turns black and white. When brightness increases again, the IR LED turns off, and the image becomes colorful again.
 - **Manual:** When night vision is needed, Press the Flashlight/Infrared button to switch to infrared mode, 4 IR LED will be turned on, video image will turn black and white. When night vision is no longer needed press the IR button to switch out of night vision.
- 15/33 – **Motion detect:** When turned on, exit the menu to the main display screen and press record. Video recording will start if any movements are detected and will continue to record if there is motion. If the camera does not detect a motion for 10 seconds, recording will stop and only record again if there is motion detected. Stop this feature by pressing the record button again or turning this function off.
- 16/33 – **Record Warning:** the voice/vibrating that advises the user that video recording has been activated. Options are On/Off.
- 17/33 – **GPS:** Having GPS on allows connection to the GPS satellite to view the location of where video recordings, speed, date and time were taken. Options are On and Off.
- 18/33 – **TimeZone:** Default is set for GMT. This setting provides the ability to change the time zone the camera is set for. PST is -7, EST is -4.
- 19/33 – **Language:** Allows the user to switch the language of the device.
- 20/33 – **Screensaver:** Allows the user to set the amount of time before the device's screen saver is on. Options are off, 30 second and, 1, 3, and 5 minutes.
- 21/33 – **LCD Brightness:** Allows the user to change the brightness of the device's screen. Options are low and high.
- 22/33 – **Auto power off:** Turning this function on will cause the device to turn off after the selected time when in standby mode. Options are 30 seconds, 1, 3, and 5 minutes.
- 23/33 – **LED Light:** If on LED light will change colors depending on what the camera is doing (for example: recording). If off no LED indicators will show.
- 24/33 - **White LED:** Enables a white led to be used as a flashlight or as a flashing light (beacon)
- 25/33 – **Key tone:** When this is on the user will hear a key tone when pushing buttons on the device. Options are on and off.
- 26/33 – **Volume:** Altering this affects the device's sound levels including key tone and video/audio playback files.

- 27/33 - **Coding format:** H.264/H.265 - compression factor of files allows for twice the files in less room - essentially doubling the gb's on the camera
- 28/33 – **Date-time stamp:** Change the date and time of the device.
- 29/33 – **ID Setting:** Allows to designate the camera to a specific person by entering a unique user ID.
- 30/33 – **Password:** Having this setting on will cause the password requirement before entering the menu and playback screens. Options are on and off
- 31/33 – **Change Password:** Allows the user to change password. User must enter the old password and then the new password followed by confirmation of the new password using the Scroll and OK buttons. *Note: remember your new password as it is non-recoverable and will be required to be sent back to the manufacturer for resetting. This is a protection measure against unauthorized viewing of your data should the camera be lost.
- 32/33 – **Default Setting:** Allows the user to reset the device to the default settings.
- 33/33 – **Version:** shows the version of the device.



Special Features

Infrared: Press the **infrared button** to manually turn the IR on, if the camera is set to 'automatic IR' then there is no need to turn the IR on manually (when IR is on, two red lights will appear on the front of the camera)

Flashlight (White LED): Hold the **infrared button** for 2 seconds for the flashlight to turn on / hold again for 2 seconds to turn off the flashlight.

White Beacon: Hold the **photo button** for 2 seconds to turn on flashing white beacon. Hold again for 2 seconds to turn it off.

Charging

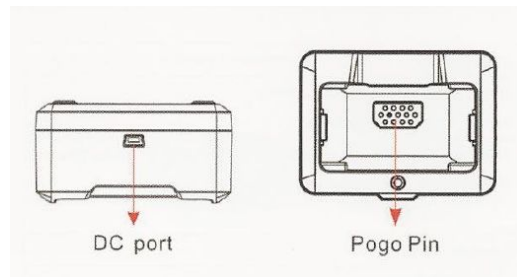
There are several ways to charge the camera which results in the blue light being illuminated. If the blue light does not illuminate then the USB may not be seated properly. **DO NOT FORCE INTO THE BASE.** The camera may be on and in use or the camera may not be seated properly in the charging base. Make sure to correctly place the camera into the charging base - the front of the camera should be facing away from the USB port on the charging base. If the blue light is not on, the camera is not charging. It takes approximately 4-6 hours for the camera to fully charge.

NOTE: If the camera is on while charging and becomes unplugged from the power source (via the docking station or USB port) the camera will power off.

Ways to charge

1. Use the outlet adaptor, USB cable and charging base to plug into an outlet
2. Use the outlet adaptor and USB cable only to plug into an outlet
3. Plug the USB cable directly into the computer
4. Use the charging base with the 12 volt adaptor while in the vehicle

IMPORTANT: if the camera is not used and charged on a consistent basis, the camera's battery will lose the ability to hold a charge. Batteries are not replaceable and not covered under warranty. Please ensure to use and charge your camera often.



Opening Files On Computer

1. Plug the camera into the computer via the USB cable
2. On the camera screen you will be prompted to enter your password. (six zeros unless the password has been changed).

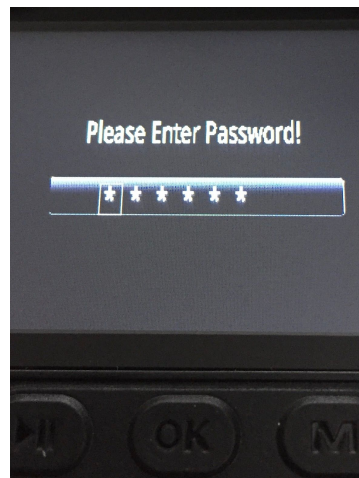


Figure 4

3. After the password has been successfully entered, the camera screen should say 'USB connecting':

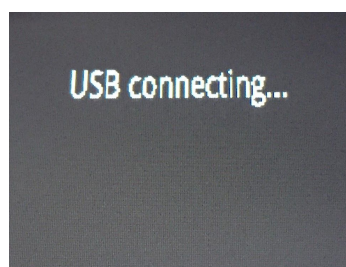


Figure 5

4. The computer should recognize the camera as a 'D', 'E', 'F', or 'G' drive
5. Locate that drive on the computer and open it.

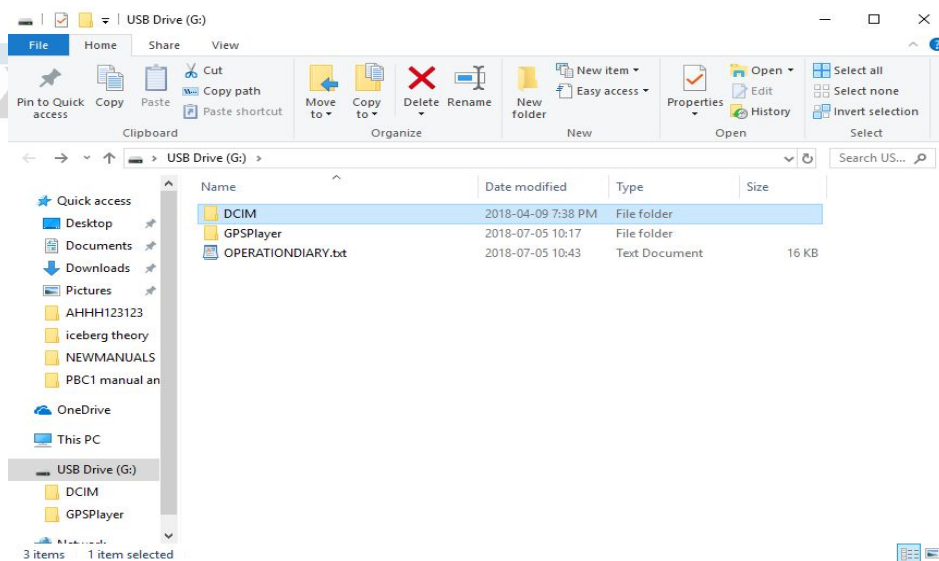
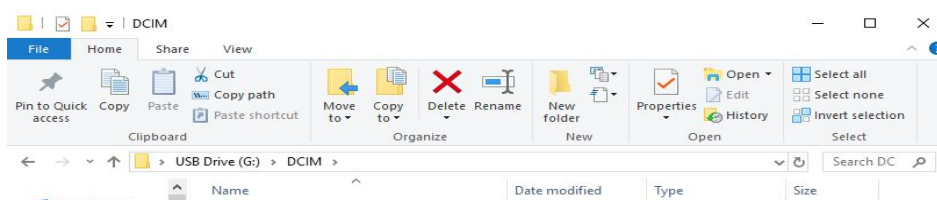


Figure 6

6. Once opened there should be two folders, DCIM and GPS Player, and one file, OPERATIONDIARY.txt (which is a log of the date and time of the camera operations. For example recording, photo capture, and power)
7. Open DCIM then open 100MEDIA



8. Choose the file that your wish to view (MP4, JPEG, WAV)

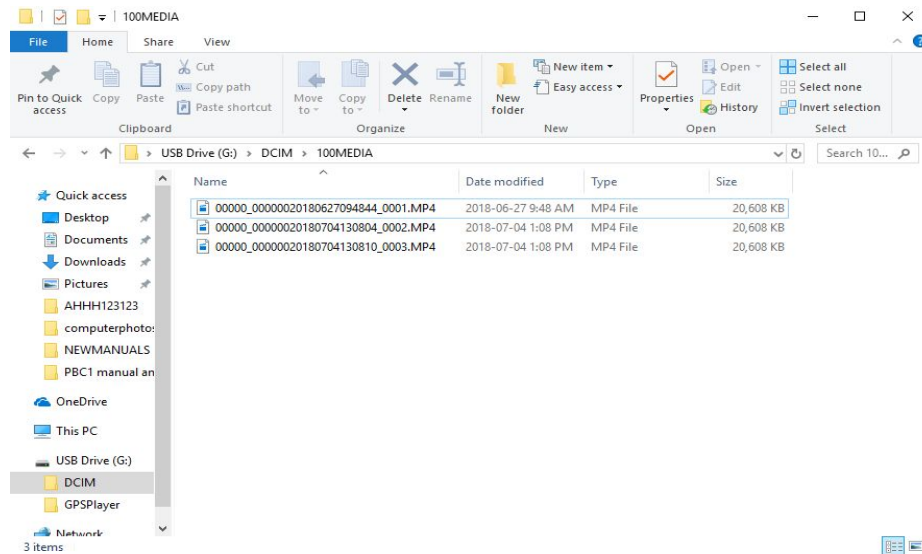


Figure 8

Deleting Files

Ensure that all files are saved prior to deletion of files.

Once deleted the files cannot be retrieved.

When the user is sure of files to be deleted, select the file or files and press delete key, multiple files can be deleted at the same time.

Files are required to be deleted in order to clear up space on the camera prior to its next use. Failure to do so will result in no data being recorded.

A **card full** message will appear and an alarm will sound if there is no storage available on the camera to record. This means that data needs to be deleted.

The amount of storage remaining is displayed in the bottom right corner of the rear display screen showing 59.6G/59.6G. This shows how much storage is left compared to how much storage is available.

Failure to delete files will result in the camera unable to record and important data may be missed.

If you are using a MAC computer, files may show as deleted but not in fact deleted. Please ensure that you use a PC to delete all files.

Failure to delete files which results in missed data being recorded will not be constituted as a warranty issue or a failure of the product nor will RoadScan Canada Inc be held liable for any data failed to be captured.



GPS Files

1. Back out of the 100MEDIA file and open the second folder GPS Player.
2. Please contact Lee for the gps .exe file at lee@roadscanCanada.ca as the website currently has limitations associated with it.
3. Any gps player will work with the software however.
4. The GPS component will open and files should systematically show up with satellite images beside each file. Files show up on the bottom right of the screen. If there is no satellite image on the file it means that no GPS was captured.



Figure 9

5. To view a file, highlight the file and hit the play button, this may take a few seconds to a minute depending on the size of the file.
6. Depending on the size of the file will depend on the length of time it takes to download the GPS data

7. To delete these files, go back to the folder of 'D', 'E', 'F' or 'G', highlight and delete selected files
8. To save files, highlight, copy/paste and store in a new folder

REMEMBER TO 'EJECT' THE BODY CAMERA PROPERLY FROM YOUR COMPUTER



Figure 10

DASH CAM

The unit can be used as a dash cam in your vehicle. It will capture video, speed, time/date stamp, direction of travel and GPS coordinates. To use this feature, secure the docking station to the dash of your vehicle facing the correct direction. Place the camera in the docking station, the camera is connected to your vehicle via the cigar lighter. Hit the video record button when required or as wanted. Note: the camera is being charged while in the docking station.

Reset

Should the unit freeze up (typically by pushing too many buttons at the same time - similar to the 'wheel of death' on a computer), located in the USB port is a small reset button. Use an object (a paper clip or similar) to push this button. The camera will then be reset. No files are lost as files can only be deleted off a computer.

LED LIGHTS:

GREEN LIGHT = The camera is on

RED BLINKING LIGHT = The camera is in video mode

BLUE LIGHT = The Camera is Charging

Accessories that come with the DH22 include: usb cord, shoulder clip, outlet plug, charging base and long gator clip.



Troubleshooting

- If you get the password incorrect while attempting to connect, either unplug and plug the camera back into the computer or turn the camera power off and on again so as to have the ability to re-enter the password.
- If the **photo button** or **power button** are pushed while the password screen is displayed the camera will switchover to the main LCD viewing screen and enabling the use of all the camera's functions.
- If the camera is **recording** (either audio or video) while plugged into a computer, this means that the camera is not charging or unable to view any data on the camera. In this case, unplug the camera, and turn the camera off. However, the camera is unplugged while in recording mode (either audio or video) the camera will **not turn off**.
- If the camera freezes, hit the reset button (covered in Reset the Camera). This will occur when too many buttons are pushed simultaneously.
- Reasons for the camera to stop functioning are: low battery, card full, multi buttons pushed simultaneously, incorrectly plugged into charging base or computer.
- DH22 not charging: check the USB and port to make sure there is a proper connection.

NOTICE

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DISCLAIMER

Please make sure that you are following the regulations and laws set by your Provinces DMV (Department of Motor Vehicles) prior to mounting your camera for vehicular use. This manual is not designed to provide any specific legal advice.

- Please check the DH22's features periodically to ensure that it is operating as required.
- Please use the DH22 as a tool while driving and use driver's safety while driving.
- RoadScan Canada Inc shall not be held responsible for any traffic violations related to the positioning or improper use of our product.
- Avoid mounting the camera outside of an airbag deployment zone.
- Knowing most vehicles run off 12VDC power supply from the battery, please double check our cigarette power adapter's output rating before attempting to run power directly from the car battery. If the 12 volt is cut and then hardwired to a vehicle, the warranty is null and void. To charge in the vehicle, ONLY use 12 volt provided.



IMPORTANT

This guide provides important information on the use and operation of your DH22 and the images/features shown throughout the manual are subject to change without notice due to system and firmware upgrades. Please read all the information carefully prior to using the product for the best performance and to prevent any damage/ injuries or misuse of the device(s). Customers are encouraged to have read through this complete user's manual before using the DH22. Any unapproved changes or modifications will void your warranty. Please ensure having a complete understanding of the following conditions and restrictions.

NOTE: Please check your Provincial Motor Vehicle Act and Regulations pertaining to the use of this camera while operating your vehicle. It is illegal in most areas to operate a camera while driving.

CONDITIONS

Please read the following messages to make sure your working environment is suitable if the camera is intended for use in the vehicle.

- If your vehicle does not cut off power to your cigarette lighter port, then you may have to manually turn off or unplug the charger to prevent it from overheating.
- The temperature should be kept between -10°C and 50°C (14°F to 122°F).
- Avoid putting the product in places where temperature or humidity may change rapidly.
- Keep it dry, dustless and avoid lens exposure in direct sunlight.
- Keep product away from heat sources such as electric heaters.
- Do not use the camera near harmful chemicals.
- Do not place product near any strong magnetic objects

- It might influence the normal operation of the product if used at the fringe range of normal temperature. Please turn off the power when not in use.
- Do not disassemble the product.
- Do not shake or strike the product.
- Please obey the local government's environment protection policy.



RESTRICTIONS:

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages. Retain and follow all product safety and operating instructions. Observe all warnings in the product operating instructions. To reduce the risk of bodily injury, electric shock, fire and damage to the equipment, observe the following precautions.

PLEASE NOTE that under certain circumstances, audio/video recording may be **PROHIBITED** by law. This device should be used only in compliance with all applicable Federal, Provincial and local statutes.

- DO NOT disassemble this product. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock during subsequent use.
- DO NOT use this product unless knowledge of the law, Federal, Provincial and local governments pertaining to use of the product is fully understood. To infringe on one's privacy, spying intercepting and related activities are illegal and punishable by law. Monitoring one's private activities without consent is illegal and this product is not designed or manufactured for these purposes.
- DO NOT use this product to carry out any illegal activities such as sneak preview, etc. RoadScan Canada Inc shall not be responsible for any consequences' of illegal activities conducted by users.
- DO NOT put the plastic packaging bags in reach of children or babies. Plastic bags can create a suffocation hazard when placed over the nose and mouth.
- DO NOT plug the AC adapter into the outlet in improper situations.
- Plugging in an AC adapter with wet hands might cause electric shock.

- Plugging in the AC adapter unsteadily might cause fire or electric shock.
- DO NOT cover the AC adapter when it is connected to an outlet, place the adapter near heaters, or put it on the floor which is equipped with a heater. The above mentioned operation might cause fire or incidents.

WARRANTY

RoadScan Canada Inc provides a limited time warranty for this product free from defects in title, materials and manufacturing workmanship for one year or otherwise specified on the product packaging. This limited warranty shall commence from the date of purchase. RoadScan Canada Inc products warranty is not transferable and is limited to the original purchaser. If the product is found to be defective then, as your sole remedy and as the manufacturer's only obligation, RoadScan Canada Inc will repair or replace the product.

This warranty shall not apply to products that have been subjected to abuse, misuse, abnormal electrical or environmental conditions, normal wear and tear, improper installation, failure to ensure proper usage by employees, unplugging of the unit resulting in loss of data, or any condition other than what can be considered normal use. Warranty Disclaimer RoadScan Canada Inc makes no other warranties, express, implied or otherwise, regarding this product, and specifically disclaims any warranty for merchantability or fitness for a particular purpose.

All products leaving RoadScan Canada's facility have been tested and deemed working accordingly and in good condition. Any mishandling of the product(s) purchased does not provide immediate warranty relief.

It is the owners responsibility to read this manual and warranty coverage prior to making a warranty claim.

RoadScan Canada is the sole determiner if warranty is to be covered.

Photographs and or video will be requested to determine if an item is covered under their respective warranty.



LIMITATION OF LIABILITY

The liability of RoadScan Canada Inc, arising from this warranty and sale shall be limited to a refund of the purchase price. In no event shall RoadScan Canada Inc be liable for costs of procurement of substitute products or services, or for any lost profits, or for any consequential, incidental, direct or indirect damages, however caused and on any theory of liability, arising from this warranty and sale. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy.

