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GHOST-S

quick guide



Thank you for purchasing the Drift Ghost-S

CUSTOMER SUPPORT

Check our official website for firmware updates, customer support, news about our products and videos from our users.

If you have any suggestions, comments or concerns, please contact our customer support team at:

support@driftinnovation.com

WARRANTY

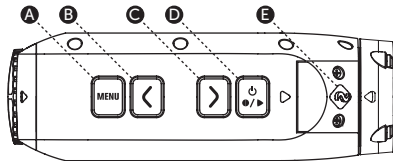
To obtain our warranty service, register your product at:

driftinnovation.com/warranty



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About your camera



- A MENU / Tag / Back Button
- B LEFT Button / Zoom Out
- C RIGHT Button / Zoom In
- D ACTION Button (On/Off/Rec/Stop)

E Status LED

F Rear Hatch

G 2.0" LCD Screen

H 300° Rotating Lens

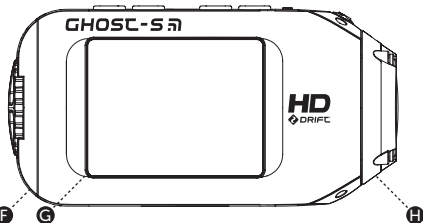
I USB Port (Mini-B)

J HDMI Port (Mini-C)

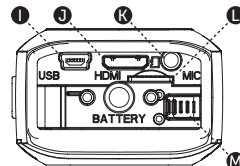
K 3.5mm Microphone Input
-MONO

L Micro SD Card Slot

M Battery Slot Cover



Initial setup



1. Unscrew and remove the rear hatch

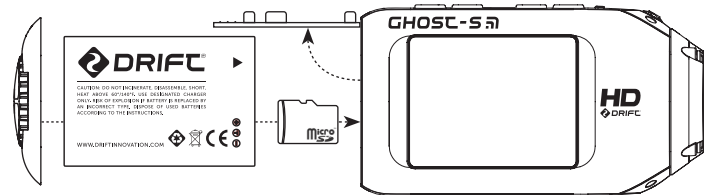
2. Insert a Class 10 or higher Micro SD/HC/XC card (up to 64GB) Format before first usage!

3. Lift the hinged battery slot cover and insert the battery as shown (below)

4. Connect the camera via mini USB cable to a powered USB port and charge the battery for 4 hours before first use

5. Charge the remote via mini USB cable

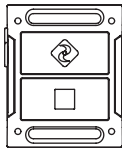
6. Replace the rear hatch and screw shut to secure



Package contents



Remote Control



Rechargeable Battery



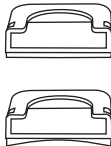
Connector Hatch



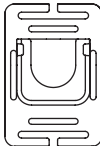
Universal Clip



Mount Kit



Goggle Mount

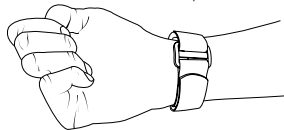


*Note: The Connector Hatch is **NOT** waterproof, use the Standard Hatch.

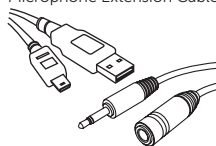
Getting started

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Wrist Strap



USB Cable (Mini-B)
Microphone Extension Cable

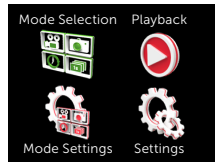


POWER ON AND OFF

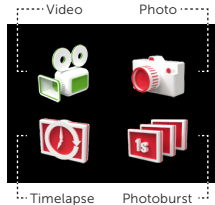
1. Press and hold the  ACTION button to power on
2. The screen will power on, show the welcome display, then Live Preview
3. The camera is now ready to record video, or take still photos
4. The current camera mode is indicated by the icon in the top left of the display and by the LED indicator (for details, see p7-8)
5. To power off, press and hold the  ACTION button for 3s.

MAIN MENU

Press the MENU button to enter the Main Menu. The screen will display the icons of the four menu options. Use the LEFT/RIGHT buttons to highlight menu options; press the ACTION button to select an option.



*Note: The camera will power on in the same mode it powered off in.



MODE SELECTION MENU

The Mode Selection menu displays the icons for the four camera modes. Highlight the desired mode and press ACTION. The screen will return to Live Preview and the camera is ready to record.



MODE SETTINGS

The Mode Settings menu displays the icons for the settings of the four camera modes. Highlight the desired mode and press ACTION. The screen will show the list of settings for the chosen mode.

VIDEO MODE

(Green LED) The camera will record video when ACTION is pressed on the camera or remote. The LED will flash red while recording. Press ACTION on the camera, or STOP on the remote, to end recording.

VIDEO SETTINGS

- Video Resolution
- Frame Rate
- Field of View
- Exposure
- Self-Timer
- Video Tagging (see p12)
- Car DVR (see p11)
- Bit Rate (see p11)
- Scene Mode (see p12)
- Default Settings

PHOTO MODE

(Yellow LED) The camera will capture still images when ACTION is pressed on the camera or remote. The LED will blink red every time a photo is taken (this applies for Timelapse and Photoburst modes also).

PHOTO SETTINGS

- Photo Resolution
- Field of View
- Exposure
- Self-Timer
- Scene Mode (see p12)
- Default Settings

TIMELAPSE MODE

(Purple LED) The camera will capture a series of still images at a specified rate when ACTION is pressed on the camera or remote. To stop recording, press ACTION on the camera or STOP on the remote.

TIMELAPSE SETTINGS

- Photo Resolution
- Field of View
- Exposure
- Sequence Interval
- Self-Timer
- Scene Mode (see p12)
- Default Settings

PHOTOBURST MODE

(Cyan LED) The camera will capture a burst of still images for an allotted duration, at a specified rate, when ACTION on the camera or remote is pressed (for best results, use a Class 10 or higher micro SD card).

PHOTOBURST SETTINGS

- Photo Resolution
- Field of View
- Capture Rate
- Burst Duration
- Exposure
- Self-Timer
- Scene Mode (see p12)
- Default Settings

Playback & camera settings



PLAYBACK

Selecting the Playback icon opens the Mode Selection menu and display the four camera mode icons.

The number of videos or photos is displayed beside each camera mode icon.

Selecting a mode will display the most recent video or photo, timelapse or photoburst folder.

Navigate through the files using LEFT/RIGHT. To play a video, or open a timelapse or photoburst sequence, press the ACTION button. Press MENU to go back.



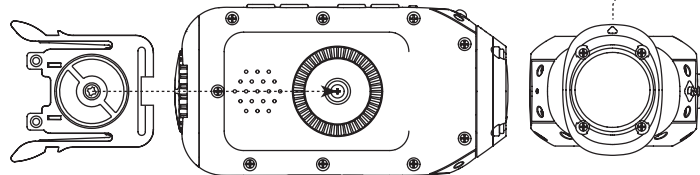
CAMERA SETTINGS

• Wi-Fi	ON / OFF
• Wi-Fi Network Name	GHOST-S [000]
• Mic Sensitivity	OFF / LOW / MED / HIGH
• Speaker Volume	OFF / LOW / MED / HIGH
• LCD Brightness	LOW / MED / HIGH
• LCD Off	OFF / 5S / 10S / 20S / 1MIN / 5MIN
• Remote Control	YES / NO
• Remote Pairing	ONE-ONE / ONE-ALL
• Remote LED	ON / OFF
• Camera LED	ON / OFF
• Digital Zoom	ON / OFF
• Camera Off	OFF / 1MIN / 2MIN / 5MIN
• HDMI Out Resolution	AUTO / 1080p / 1080i / 720p
• HDMI frame Rate	60 / 50 / 30 / 25
• Date	YEAR / MONTH / DAY
• Date / Timestamp	ON / OFF
• Language	(list of languages)
• Save Settings	A / B / C
• Load Settings	A / B / C
• Reset Settings	YES / NO
• Format Memory Card	YES / NO
• Firmware Version	CURRENT VERSION

Mounting the camera

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1. Attach the Universal Clip to the camera in any 360° orientation as needed—first position the clip in the desired orientation, then secure by rotating the screw base by hand.
2. Slide the Universal Clip into your chosen mount, ensuring that it 'clicks' into place.
***Double check it has been fully inserted by pushing out the clips**
3. Align your shot. Rotate the lens by hand until the image is orientated correctly. Use the lens marker as an 'up' reference.



CLONE MODE [NEW]

Connect to multiple cameras with the new Clone mode feature.

Through Wi-Fi all cameras within 60m of the master camera will be able to "see" each other and communicate their current settings and recording modes to each other. The result is a synchronisation between cameras, if one camera starts recording, all synced cameras will record - this feature is perfect for capturing multiple angles.

See Full Manual online for how to use, found at: www.driftnnovation.com

SIMULTANEOUS PHOTO

While recording video, pressing the MENU button will simultaneously take an 8mp still photo.

When using the two-way remote control, press the ACTION button for the same result.

This feature is not available when Video Tagging (right) is enabled.

CAR DVR MODE

This hands-off mode is ideal for insurance and security purposes. In this mode the camera records footage in a continuous loop style (DVR Intervals) recording

loop after loop until it fills the Micro SD Card. Once full, the oldest loops will be deleted as the newest ones are saved. DVR loop intervals can be 1min, 3min, 5min or 10min intervals.

BIT RATE [NEW]

Users can select to keep the normal compression used by the H.264 codec, or if they prefer, allow a higher flow of data for preserving more of the original recording. This will result in a bigger file size.

MODE INDICATOR

The Drift Ghost-S features our multi-coloured active status™ indicator light system. There are LED indicators positioned on both the two-way remote control and the front face of the camera, these change colour depending on the current camera mode.

SCENE MODE [NEW]

Choose your recording conditions with scene mode select between Normal / Vivid / Low Light.

SETTING PROFILES

All camera settings can be saved by selecting Save Settings from the Camera Settings menu and choosing a save profile: A, B or C. Profiles can be loaded by selecting Load Settings from the menu, then A, B or C.

VIDEO TAGGING

When activated, this feature allows the camera to continuously record video, but only saving when important footage is "tagged".

While recording video, pressing the MENU button will tag and save past,

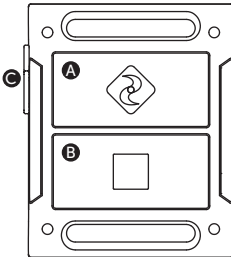
present and future video.

For example, with a video tagging interval of 30s selected, on pressing MENU while recording, the camera will save the previous 30s, the current 30s and an additional 30s—a total of 1m30s of 'tagged' footage.

The Video Tagging feature requires a class 10 micro SD card with 4GB of free space to function correctly.

Using the two-way remote

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The Remote is **NOT** waterproof.

Ⓐ ACTION button

Ⓑ STOP button

Ⓒ USB charging port
(Remove covering before charging)

POWER ON AND OFF

1. Hold the Ⓐ ACTION button to power on
2. The colour of the remote control's LED indicator will show the current camera mode
3. The remote will automatically power off if it does not find a camera after 15s
4. To charge, connect the remote control via the mini USB cable provided to a powered USB port

USING THE REMOTE

While the camera and remote are on and paired, pressing

ACTION will begin recording video, capture a photo, start timelapse or photoburst modes, depending on the camera mode. Pressing STOP will end video or timelapse recording.

Pressing ACTION while recording video will capture a photo, or start Video Tagging (if activated, see p12). Pressing STOP will end recording.

The LED will blink blue to confirm a signal between camera and remote.

Pressing STOP while the camera is in Live Preview will toggle between camera modes, indicated by LED

Accessory guide

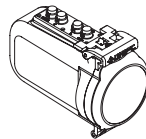
SHOULDER MOUNT



The mount allows you to go hands-free while still capturing all the action. The harness is fully adjustable and the detachable shoulder mount is suitable for both left and right handed users.

For full accessory list visit driftinnovation.com

HD GHOST WATERPROOF CASE



The Drift HD Ghost waterproof case is perfectly suited for all aquatic activities. The dual locking system ensures the Drift HD Ghost is always securely sealed and dry down to 60m.

DRIFT TIME LAPSE



The Drift Time Lapse allows you to capture photo Time Lapse sequences and is enabled to rotate 360° in 60 minutes perfect for capturing all the action, whether up in the mountains or down on the beach.

TURNING ON AND OFF

In the Camera Settings menu, highlight the 'WiFi' option, press ACTION, and select ✓ and press ACTION.

In Live Preview, wait for the WiFi indicator icon  to show WiFi is enabled then, on your WiFi device, select the network:

'Ghost-S [000]'

The three digit network name can be changed from the general settings menu.

A Micro SD card must be installed to allow WiFi to work.

DOWNLOAD THE DRIFT APP



Shot setup, record, capture & playback on your device.



Available on the
App Store



ANDROID APP ON
Google play

Update coming soon for full Ghost S compatibility, check website for up-to-date details.

UPDATING THE FIRMWARE

Download the latest firmware from the Drift website and copy the Ghost_S.bin file to a formatted micro SD card.

Insert the micro SD card into the camera and power on. The camera screen will display 'Firmware Updating' as the update is installed.

Once complete, the camera will power down. To check the firmware has updated correctly, power the camera on and, from the Main Menu, open the Camera Settings menu and select 'Version' to view the current firmware.

CONNECTING TO A PC

1. Connect the camera using the USB cable (provided); the camera screen will show a USB icon.
2. The camera's folder may open automatically; if not, open using My Computer.
3. The camera should be recognised as a removable disk; double-click to open.
4. Open the DCIM folder to access your files.

! While charging only (not through a computer), press ACTION to return to Live Preview

CONNECTING TO A MAC

1. Connect the camera using the USB cable (provided); the camera screen will show a USB icon.
2. The camera's folder may open automatically; if not, open using Finder.
3. The camera should be recognised as an external device; double-click to open.
4. Open the DCIM folder to access your files.

CONNECTING TO A TV

1. While the camera is powered off, connect the camera using a mini HDMI (Type C) to full HDMI cable, available from Drift retailers.
2. Power on the camera.
3. The camera's display will now show on the TV and playback of video or photos will show on screen; video sound will come out of the TV speakers.

Specifications

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Video resolution:	1080p, 720p and WVGA (16:9); 960p (4:3)
File format:	.MP4 (H.264 codec)
Sensor type:	CMOS
Frame rate:-	
1080p:	25 / 30 / 50 / 60 fps
960p:	25 / 30 / 48 / 50 / 60 fps
720p:	25 / 30 / 50 / 60 / 100 / 120 fps
WVGA:	25 / 30 / 50 / 60 / 100 / 120 / 200 / 240 fps
Field-of-view (diagonal):-	
1080p:	90° / 127° / 160°
960p:	160°
720p:	160°
WVGA:	160°
Lens focal range:	0.5m to infinity
Lens rotation:	300°
Zoom:	x10 (digital)
Photo mode:	5 / 8 / 12 megapixels
Exposure:	Auto / Step Manual (advanced users)

LCD Screen:	2.0" colour TFT
LCD Screen Cover:	Corning® Gorilla® Glass
Waterproof:	3m (9.84ft)
Microphone:	Built-in, noise reducing microphone
Memory capacity:	Micro SD, SDHC, SDXC memory cards up to 64GB
Inputs:	3.5mm external microphone (extension included)
Outputs:	HDMI connector type C (cable not included)
Connectivity:	USB Plug and Play, mini-B USB connector
Compatibility:	Windows Vista or Windows 7 and up / Mac OS X 10.5 and up
Remote range:	10m (32.81ft)
Radio frequency:	2.4GHz
Camera:-	
Dimensions:	105 (L) × 52 (W) × 33 (D) mm
Weight:	172g
Power:	1700mAh rechargeable lithium-ion battery (included) (DC 3.7V)
Remote control:-	
Dimensions:	59 (L) × 48 (W) × 12 (D) mm
Weight:	22g
Power:	350mAh rechargeable lithium-ion battery (DC 3.7V)

FCC Information

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept interference received, including interference that may cause undesired operation.

WARNING

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause

harmful interference to radio or television reception, which can be determined by powering the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna;

Increase the separation between the equipment and the receiver;

Connect the equipment into an outlet on a circuit different from that which the receiver is connected;

Consult the dealer or an experienced radio / TV technician for help.

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class [B] digital apparatus complies with Canadian ICES-003.

Son fonctionnement est soumis aux deux conditions suivantes:

- (1) cet appareil ne peut pas causer l'intervention, et
- (2) cet appareil doit accepter

de l'intervention, y compris l'intervention qui peut causer l'opération non désirée de.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

Cet appareil s'accorde avec Industrie Canada licence-exempte RSS standard.

FCC RADIATION EXPOSURE

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

MOTORCYCLE DISCLAIMER

Interacting with the camera while riding could cause a crash and you or others may be seriously injured or killed.

- Keep your eyes and mind on the road;
- Avoid looking at the camera for too long;
- Stop the vehicle in a safe location before adjusting the camera.