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DRIFT®

HD GHOST

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quick guide

HD GHOST

HD
1080P

contents

Thank you for purchasing the Drift HD Ghost

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:
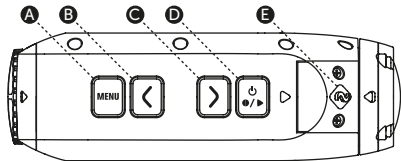
support@driftinnovation.com

WARRANTY

To obtain our warranty service, register your product at:
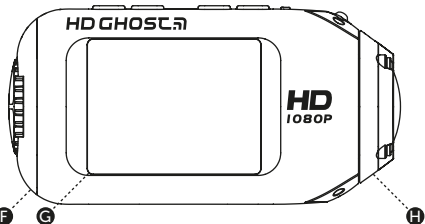
driftinnovation.com/warranty

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about your camera

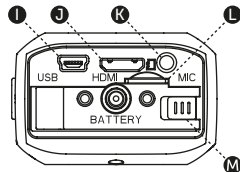

- Ⓐ MENU / Tag / Back Button
- Ⓑ LEFT Button / Zoom Out
- Ⓒ RIGHT Button / Zoom In
- Ⓓ ⏻ ACTION Button (On/Off/Rec/Stop)
- Ⓔ Status LED
- Ⓕ Rear Hatch
- Ⓖ 2.0" LCD Screen
- Ⓗ 300° Rotating Lens
- Ⓘ USB Port (Mini-B)
- Ⓙ HDMI Port (Mini-C)
- Ⓚ 3.5mm Microphone Input
- Ⓛ Micro SD Card Slot
- Ⓜ Battery Slot Cover

initial setup

1. Unscrew and remove the rear hatch
2. Insert a Class 6 or higher micro SD card
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
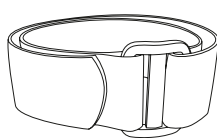5. Replace the rear hatch and screw shut to secure

package contents
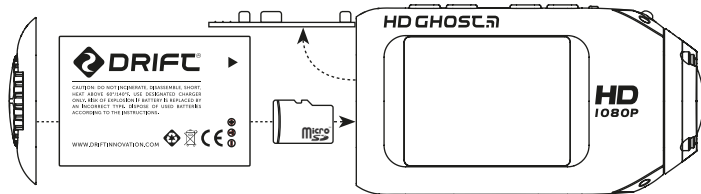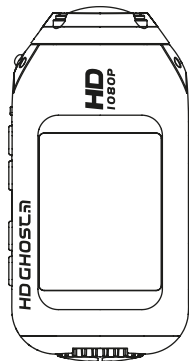
Remote Control
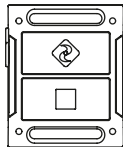
Rechargeable Battery

Connector Hatch

Universal Clip

Mount Kit

Goggle Mount

HD GHOST™

HD 1080P

getting started

Wrist Strap
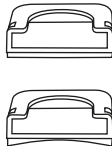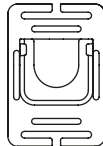
USB Cable (Mini-B)
Microphone Extension Cable
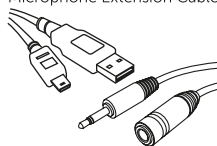
POWER ON AND OFF

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 3 seconds

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.

Mode Selection	Playback
Mode Settings	Settings

5

6

mode selection & settings

Video   Photo

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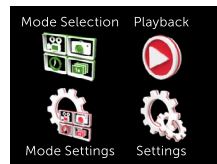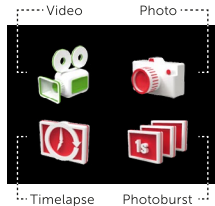
MODE SELECTION MENU
The Mode Selection menu displays the icons for the four camera modes. Highlight the desired mode and press ACTION. The screen will return to Live Preview and the camera is ready to record.

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 turn solid red while recording. Press ACTION on the camera, or STOP on the remote, to end recording.

VIDEO SETTINGS
• Video Resolution
• Frame Rate
• FOV
• Exposure
• Self-Timer
• Video Tagging (see p10)
• Video Format

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
• FOV
• Exposure
• Self-Timer

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
• FOV
• Exposure
• Sequence Interval
• Self-Timer

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 6 or higher micro SD card).

PHOTOBURST SETTINGS
• Photo Resolution
• FOV
• Capture Rate
• Burst Duration
• Exposure
• Self-Timer
• Default Settings

playback & camera settings

new features

Playback

Settings
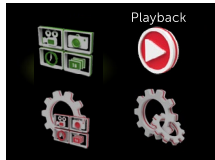
PLAYBACK

Selecting the Playback icon will open 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.
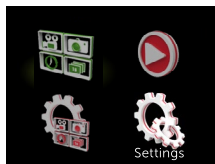
CAMERA SETTINGS

• WiFi	On / Off
• Mic Sensitivity	Off / 1 / 2 / 3
• Speaker Volume	Off / 1 / 2 / 3
• Remote Control	On / Off
• Remote Pairing	On / Off
• Date / Time Stamp	On / Off
• LCD Off	Off / 5s / 10s / 20s / 1m / 5m
• LCD Brightness	1 / 2 / 3
• LED Indicator	On / Off
• Camera Off	Off / 1 / 5 / 10 / 20 / 30m
• Date / Time	YY:MM:DD / HH:MM
• Digital Zoom	On / Off
• Remote LED	On / Off
• Save / Load Settings	A / B / C
• Language	(list of languages)
• Reset Settings	Yes / Cancel
• Format Memory Card	Yes / Cancel

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.

The camera will power on in the same settings configuration it was powered off in.

VIDEO TAGGING

When activated, this feature allows the camera to continuously record video, but only saving on 'tagging' important footage.

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 micro SD card with 4GB of free space to function correctly.
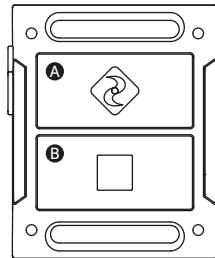
SIMULTANEOUS PHOTO

While recording video, pressing the MENU button will simultaneously take a still photo.

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

This feature is only available when Video Tagging (*left*) is turned off.

using the two-way remote

Ⓐ ACTION button

Ⓑ STOP button

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, 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 p10*). 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 colour (*see p 7-8*).

mounting the camera

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

3. Check screen alignment, rotating the lens by hand as necessary to realign your shot, using the lens marker as an 'up' reference

wifi   firmware   connecting the camera
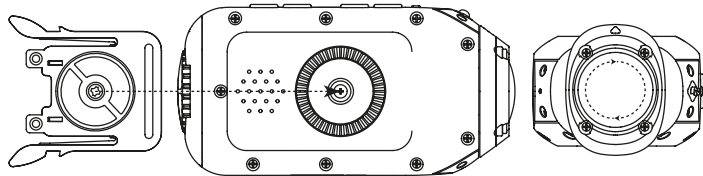
TURNING ON AND OFF

In the Camera Settings menu, highlight the 'WiFi' option and 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 'HD Ghost'.

NOTE – The WiFi setting will be activated by firmware update once the Drift App for Apple® and Android® is available. Please check the Drift website for more information and app release dates: driftinnovation.com

DOWNLOAD THE DRIFT APP

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

UPDATING THE FIRMWARE

Download the latest firmware from the Drift website (*left*) and copy the .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 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

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 Finder
3. The camera should be recognised as a 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

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

specifications

Video resolution:	1080p, 720p and WVGA (16:9); 960p (4:3)
File format:	.MP4 / .MOV (H.264 codec)
Sensor type:	CMOS
Frame rate:-	
1080p:	25 / 30 fps
960p:	25 / 30 / 48 fps
720p:	25 / 30 / 50 / 60 fps
WVGA:	25 / 30 / 50 / 60 / 100 / 120 fps
Field of view:-	
1080p:	90° / 127° / 170°
720p:	170°
WVGA:	170°
Lens focal range:	0.5m to infinity
Lens rotation:	300°
Zoom:	×10 (digital)
Photo mode:	5 / 8 / 11 megapixels
Exposure:	Auto / Manual (advanced users)
LCD Screen:	2.0" colour TFT

Waterproof	3m (9.84ft)
Microphone:	Built-in, noise reducing microphone
Built-in memory:	256MB (not user accessible)
Memory capacity:	Micro SD memory cards up to 32GB
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 XP and up / Mac OS 10.2 and up
Remote range:	5m (32.81ft)
Radio frequency:	2.4G
Camera:-	
Dimensions:	105 (L) × 52 (W) × 33 (D) mm
Weight:	167g
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)

disclosures

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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment . This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

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

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.

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.