Thank you for purchasing the Drift Ghost XL

**CUSTOMER SUPPORT**
Check our official website for firmware updates, customer support, and info on all our products.
**https://driftinnovation.com/**

If you have any suggestions, comments or concerns; please contact our customer support team at:
**support@driftinnovation.com**

**WARRANTY**
Warranty does not apply if the product is damaged due to physical abuse, mishandling, accident, fire, frostbite, water damage, negligence or failure to follow the supplied operating instructions. For more information on warranty, see:
**https://driftinnovation.com/warranty**

# CONTENTS

# PACKAGE CONTENTS

A  Ghost XL

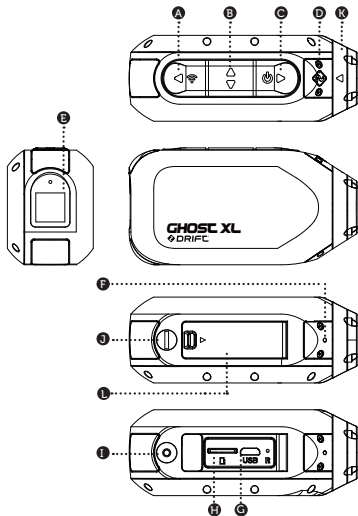B  Universal Clip

C  Curved Adhesive Mount

D  Flat Adhesive Mount

E  TRS-Audio Adaptor Cable

F  TRS-Power Cable

G  USB Cable
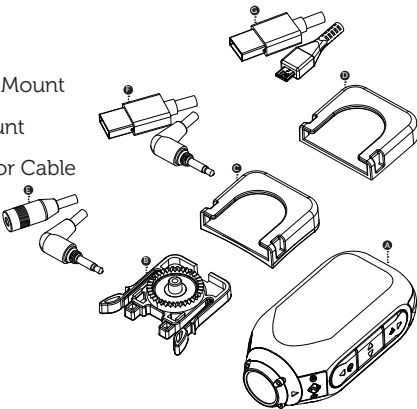
# ABOUT YOUR CAMERA

A ◀ 🔊 Rear Button

B ⬍ Middle Button

C ⏻▶ Front Button

D Status LED

E Rear Screen

F Microphone

G 5 PIN Micro USB Port

H Micro SD Card Slot

I External Mic/Power Connector

J External Mic/Power Cover

K Rotating Lens

L Memory Card and USB Door

# INITIAL SETUP

1. Open the Memory Card and USB door.
2. Insert a Class 10 or higher microSD/HC/XC card (up to 128GB). Format before first usage!
3. Connect the camera via a micro USB cable to a powered USB port, and charge the battery for 5 hours before first use.
4. Close the Memory card and USB door, and ensure that the latch is secured. You are ready to go!

# GETTING STARTED
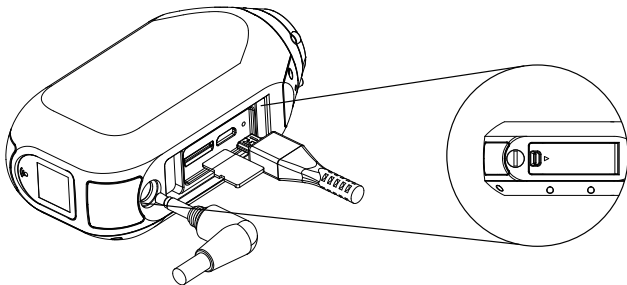
**POWER ON/OFF**

1. Press and hold the ⏻▶ button to power on.
2. The Rear Screen will power on, showing the welcome display.
3. The camera is now ready to record video or take photos.
4. Current camera mode is indicated by the colour of the Status LED and Rear Screen, along with the icon in the top left of the Rear Screen.
5. To power off, press and hold the ⏻▶ button for 3 seconds.



Mode Icon

❷          ❹
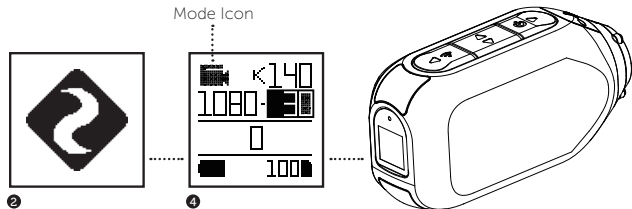
**MODE NAVIGATION**

To change the current camera recording mode, press the ◄⏚ button; changing between Video, Photo, Timelapse, Photoburst, and General Settings modes.

# MODE SELECTION & SETTINGS

**MODE SETTINGS**

To change the settings of the current mode press the ⬍ button, this will move the highlight block from the mode icon onto each setting in turn.

**VIDEO MODE**

(Green LED) Press the ⏻▶ button to start recording. The Status LED and LCD backlight will flash red to indicate recording. Press the ⏻▶ button again to stop recording.

**VIDEO SETTINGS**

● Resolution
● Frame Rate

**PHOTO MODE**

(Yellow LED) The camera will capture still images when the ⏻▶ button is pressed, and the status LED and LCD screen will flash red each time a photo is captured.

**PHOTO SETTINGS**

● Resolution

**TIMELAPSE MODE**

(Purple LED) Press the ⏻▶ button to capture a series of still images at a specified rate. The Status LED and LCD screen will flash red each time an image is captured. To stop recording, press the ⏻▶ button once more.

**TIMELAPSE SETTINGS**
● Resolution
● Timelapse Interval

**PHOTOBURST MODE**
(Cyan LED) The camera will capture a burst of still images for an allotted duration and at a specified rate, when the ⏻▶ button is pressed. For best results, use a memory card with the highest possible data rate.

**PHOTOBURST SETTINGS**
● Resolution
● Burst Duration
● Capture Rate

**GENERAL SETTINGS**
(Red LED) Press the ⬍ button to scroll through the available settings, press and hold the ⬍ button to scroll backwards the Settings. and press ⏻▶ to cycle through the options of a highlighted setting.

# MODE SELECTION & SETTINGS

- Dash Cam — ON/OFF
- Dash Cam Interval — 10s/30s/1min/2mins/5mins
- Event Detection — ON/OFF
- Video Tagging — ON/OFF
- Tagging Interval — 10s/30s/1min/2mins/5mins/10mins
- Wi-Fi — ON/OFF
- RC — Paired/Unpaired
- FOV — 140/115/90
- Exposure — +2/+1/0/-1/-2
- Self Timer — OFF/3s/5s/10s
- Bit Rate — High/Mid/Low
- Filter — Normal/Vivid/Low Light
- ISO — Auto/100/200/400/800
- Mic Sensitivity — 0/1/2/3/4/5
- Speaker Volume — OFF/Low/Mid/High
- Indicator LED — ON/OFF
- Vibrate Indication — ON/OFF
- Default Startup Mode — Resume/Video/Photo/Timelapse/Burst

- ● Camera Off      Never/2mins/5mins/10mins/20mins
- ● THM Files      ON/OFF

- ● Time and Date
- ● Date Stamp      ON/OFF
- ● Instant On      ON/OFF
- ● Clone Mode      ON/OFF
- ● Clone Group      0/1/2/3/4/5
- ● Video-Lapse      ON/OFF
- ● Video-Lapse Interval      0.5s/1s/2s/5s/10s/30s
- ● Language      EN/DE/FR/IT/ES/CN

- ● Restore Default
- ● Format SD Card
- ● Serial Number
- ● Firmware Version

# MOUNTING THE CAMERA

1. Attach the Universal Clip to the camera in any 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 screen is oriented correctly. Use the lens marker as an 'up' reference.

Lens Marker

# FEATURE OVERVIEW
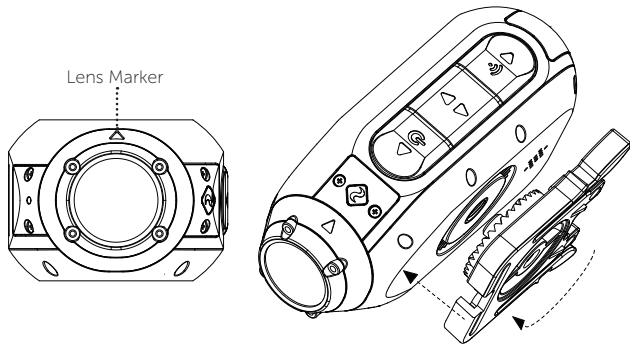
**DASH CAM MODE**

How Does Dash Cam Mode Work?

Dash Cam Mode allows your Ghost XL to record in a continuous loop. This means that when the memory card becomes full, the camera will record over the oldest footage. If an incident occurs, the Ghost XL Event Detection feature will protect this footage, to prevent it from being overwritten.

In Dash Cam Mode the Ghost XL will power on automatically when it detects a power supply. Connect the camera to a car or motorcycle power supply, and the camera will turn on and start recording when the ignition is turned on. When the ignition is turned off, the camera will save the footage and then power off instantly.

The interval setting is the duration of the loops that the Ghost XL will record. For example, if you select a 2m interval and record for 20 minutes, you'll find 10 videos saved on your memory card, each two minutes long.

-Press the 🔁 button to scroll through the modes and navigate to the settings menu.

# FEATURE OVERVIEW

-Press the ⬦ button to scroll through the menu, until your reach the 'Dash Cam' option. Press the ⬦ button to toggle Dash Cam Mode On/Off.

-Press the ⬦ button to scroll to the next option in the menu, 'Dash Cam Interval'. Press ⬦ button to scroll through the available options.

Dash Cam Mode can also be toggled On/Off by pressing and holding the ⬦ button when camera is in Video mode.

Event Detection can be toggled On/Off in the settings menu if you prefer to protect your videos manually.

**WATERPROOF POWER CONNECTION**

The Ghost XL can be connected to a car or motorcycle power supply for hands-free operation in Dash Cam Mode via the included 3.5mm Power cable.

# FEATURE OVERVIEW
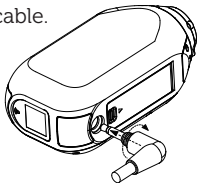
**Video-Lapse Mode**

Captures a fast-motion video of your trip, allowing you to share a condensed record of your journey. When enabled, video lapse mode will automatically stitch together a timelapse video and save it to your memory card, with no editing required. Simply turn on Video-Lapse mode in the settings menu, select a Video-Lapse Interval, and navigate to Video mode.
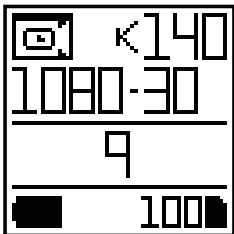


On the video mode screen a Video-lapse icon will indicate that the mode is enabled. Press the ⏻▶ button to start recording, and press the ⏻▶ button again to stop the Video-Lapse recording.

**Note: The Video-Lapse interval indicates how many frames**

per second are captured. A longer interval will result in a faster playback speed, and a shorter interval will result in a slower playback speed.

#### VIDEO TAGGING

'Video tagging mode can be enabled in the Ghost XL settings menu. When activated, this feature allows the camera to continuously record video, but only save to the memory card when important footage is "Tagged".

A 'Tagging Interval' can be selected in the settings menu, and this will determine the duration of the videos recorded. For example, if a 30s interval is selected and the user presses the ⏻▶ button the last 30s of video will be saved to the memory card. The camera will then continue to record for a further 30s, giving a total video duration of 1 min.

# FEATURE OVERVIEW

**The Video Tagging feature requires a class 10 micro SD card with 4GB of free space to function correctly. Please note that video tagging mode cannot be enabled together with Dash Cam Mode.**

### CLONE MODE

Link two or more Ghost XL, Ghost X or Ghost 4K cameras into a single network wirelessly controlled by one master camera. To set up clone mode:

-Navigate to the 'Clone Mode' option in the settings menu, and press the 🔊 button to select.

-Select the 'master' option, and press the 🔊 button to select. The master camera is now set up.

-On a second camera repeat the above, selecting the 'slave' option.

-Repeat for each additional slave camera.

-The master camera can now be used to wirelessly start and stop recordings, change settings and change modes on the entire group of cameras.

# FEATURE OVERVIEW

**INSTANT ON MODE**

Enabling Instant On Mode allows the camera to turn on, and immediately start recording with a single press of the ⏻▶ button.

**BIT RATE**

Users can choose 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.

**FILTER**

Quickly tailor your cameras settings to the recording conditions with filters. Choose between Normal / Vivid / Low Light.

**SUCTION CUP MOUNT**

The perfect accessory for mounting your Ghost XL to any non-porous flat surface. Ideal for use on car windshields or bodywork, the Suction Cup makes it simple to turn, tilt, and rotate your camera 360°.

**PIVOT MOUNT**

Mountable anywhere at nearly any angle, the Drift Pivot Mount is your tool to capture the moment from any point of view you can imagine. Includes flat and curved adhesives, and can be used together with any other Drift mount.

**HANDLEBAR MOUNT**

The Drift handlebar mount is the perfect accessory for riders, whatever your discipline. Compatible with bars between 19mm and 36mm, and capable of pivoting more than 180 degrees, the handlebar mount opens up almost any angle for your action video.

# Wi-Fi & FIRMWARE
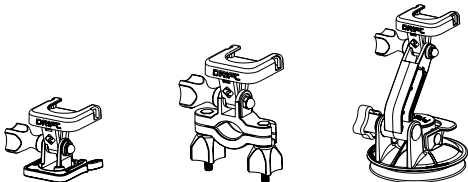
To turn on your Ghost XL Wi-Fi, simply press and hold the 🔙 button. The LCD screen will show a Wi-Fi icon when the Wi-Fi is enabled.

Wi-Fi can also be turned on via the cameras settings menu, where you'll also find an option to permanently switch the Wi-Fi network on.

**DOWNLOAD THE DRIFT LIFE APP**

Setup your shot, capture, playback, edit and live stream on your mobile device.

Download on the **App Store**    ANDROID APP ON **Google play**

Download the latest firmware from the Drift website and copy the Ghost_XL.bin file into the root of 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.

## 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.

## 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.

# SPECIFICATIONS

| | |
|---|---|
| 1080P (1920 X 1080 16:9) | @ 25, 30FPS, HDR Mode |
| 960P (1280 X 960 4:3) | @ 25, 30FPS |
| 720P (1280 X 720 16:9) | @ 25, 30, 48, 50, 60FPS |
| WVGA (848 X 480 16:9) | @ 25, 30,50, 60FPS |

| | |
|---|---|
| File Format: | .MP4 (H.264 Codec) |
| Sensor Type: | CMOS |
| Field-of-view (diagonal): | 90 / 115 / 140º |
| Lens Focal Range: | 0.5m to infinity |
| Lens Rotation: | 300º |
| Photo mode: | 4 / 8 / 12 megapixels |
| Exposure: | Auto / Step Manual (Advanced users) |
| LCD Screen: | Colour Dot Matrix Backlit LCD |
| Microphones: | Mono Microphone |

| | |
|---|---|
| Wi-Fi: | 2.4G |
| Memory Capacity: | Micro SD, SDHC, SDXC memory cards up to 128GB |
| Inputs: | Micro USB Port, AUX Jack for external power and Mic |

# SPECIFICATIONS

Connectivity:     USB Plug And Play, Micro USB 5 pin
Compatibility:    Windows XP and up / Mac OS 10.2 and up

Power:            3000 mAH internal battery.
Dimensions:       47(W)* 92(L)*35(D) mm
Weight:           127g

# DISCLOSURES

FCC STATEMENT :

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 any interference received, including interference that may cause undesired operation.

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

NOTE: This 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 turning the equipment off and on, 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 receiver.

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

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

FCC Radiation Exposure Statement:

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.

- English: "

This device complies with Industry Canada licence-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."

- French:"

Le présent appareil est conforme aux CNR d'Industrie Canada applicables

aux appareils radio exempts de licence. L'exploitation est autorisée

aux deux conditions suivantes :

(1) l'appareil nedoit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique

subi, même si le brouillage est susceptible d'en compromettre le

fonctionnement."

# DISCLOSURES

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to IC Rules. These limits are designed to provide reasonable protection against
harmful interference in a residential installation. This equipment generates uses and can radiate radio
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Consult the dealer or an experienced radio/TV technician for help.
IC Radiation Exposure Statement:
This equipment complies with IC 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.

## 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.

# DISCLOSURES