Illustra | PRO

Quick Start Guide (8200-2077-01_F)

Illustra Body Worn Camera

This guide describes the configuration and general usage of the Illustra body worn camera.

In the Box

1 x Illustra body worn camera
1 x Quick Start Guide
1 x Crocodile clip (for attaching the camera to clothing)
1 x Klick fast adaptor (for attaching the camera to clothing)
1 x USB cable
1 x T5 bit

Johnson Controls

Illustra body worn camera overview

Figure 1

Illustra body worn camera overview (continued)

Figure 2

Setting up the Illustra body worn camera

1. Set up the Illustra docking station as per instructions in the docking station Quick Start Guide.
2. **Optional:** Insert a SIM card into the SIM card slot on the body worn camera. (See the '*Inserting a SIM card*' section).
   Note: The SIM card option is currently not available in North America.
3. Insert the Illustra body worn camera into one of the camera slots on the Illustra docking station.
   Note: Up to 8 cameras can charge at one time.
4. Complete the set up within the Illustra body worn camera application.

Docking and charging the Illustra body worn camera

1. Set up the Illustra Docking Station as per instructions in the docking station Quick Start Guide.
2. Insert the Illustra body worn camera into one of the eight camera charging slots on the Illustra docking station.
   Note: Ensure that the docking station connector (See Figure 2) on the camera inserts into the four pins in the charging slot. The camera only fits into the slot in the correct orientation.
3. Press down on top of the camera until it clicks into place. The camera is now securely attached.
   Note: A red charging light on the camera is now visible and a green light indicates that the camera has successfully connected and is fully charged.

Docking and charging the Illustra body worn camera (continued)

Note: To remove the camera from the docking station, hold the camera on both sides and lift it upwards. The camera is held firmly in place by a retaining clip, so a small amount of force is required.
Note: When checking-out the body worn camera from the camera application, ensure that the white light is flashing on the front of the camera before removing it from the docking station / disconnecting the USB cable.

Replacing the Illustra body worn camera battery

1. Press the power button (See Figure 2) to power off the Illustra body worn camera.
2. Place the camera on a flat surface so that the LCD screen is visible.
3. Remove all of the eight rubber inserts covering the eight screws.
4. Use a T5 Torx screwdriver and remove the eight screws.
5. Carefully remove the front case panel.
   Note: Take care not to damage the front case panel when removing it as some force may be required.
   Note: The battery is now visible.
6. Remove the old battery from the camera.
7. Align the new battery terminals with the terminals in the camera and insert the new battery until it clicks into place.
8. Place the front case panel onto the camera body (like it was before the front case was removed) and carefully push downward on each of the four corners until the front case panel securely clicks into place.

Replacing the Illustra body worn camera battery (continued)

9. Use a T5 Torx screwdriver to insert and securely attach all eight screws.
10. Insert all eight rubber inserts into each of the screw holes.

Mounting the camera

The Illustra body worn camera comes with two mounting options in the box: **(i)** a crocodile clip or **(ii)** a klick fast adaptor (for connection to standard klick fast mounts). Select **one** of these options.

Mounting the camera with the crocodile clip

1. Place the camera on a flat surface so that the LCD screen is visible.
   Note: The 'U' shaped mounting slot ('A' in Figure 3) is located above the LCD screen.
2. Align the metal clip on the crocodile clip with the 'U' shaped mounting slot and then slide the metal clip downward into the 'U' shaped mounting slot until the metal clip clicks into place.
3. Securely attach the crocodile clip to a piece of clothing.

Mounting the camera with the klick fast adaptor

1. Insert part B in Figure 3 into the 'U' shaped mounting slot (A) (Figure 3).
2. Place part C in Figure 3 on top of Part B and align the holes in both parts.
3. Place part D in Figure 3 on top of Part C and align the holes in both parts.
4. Insert the screw (E) (Figure 3) into the hole and use a screwdriver to securely attach the screw all parts to the camera.

Mounting the camera (continued)

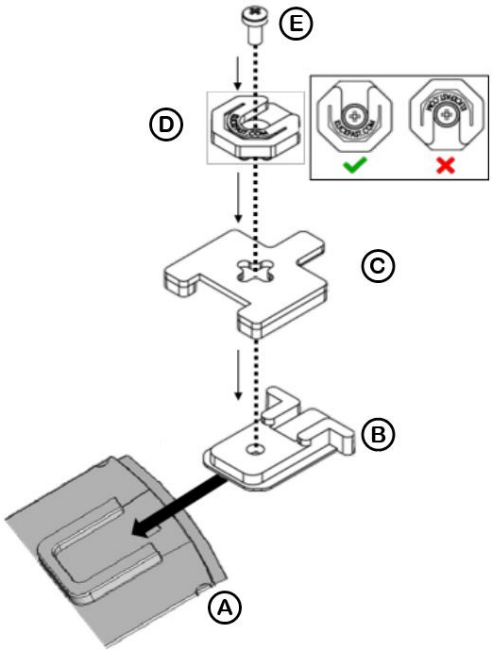

Figure 3

Inserting a SIM card into the camera

This is currently not available in North America. The Illustra body worn camera requires a nano-SIM card. The front case panel and battery must be removed to access the SIM card slot.

1. Remove the battery as per steps 1 to 6 in the '*Replacing the Illustra body worn camera battery'* procedure.
   Note: The SIM card slot has a locking tray.
2. Slide the tray (Figure 4) to the right and lift it upward to access the SIM card slot.

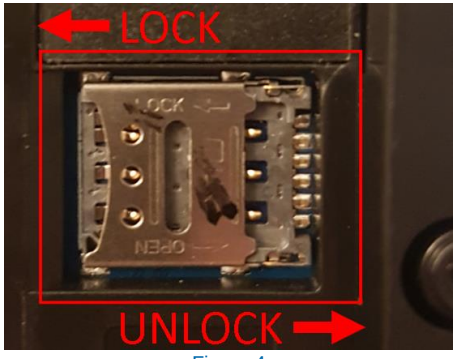

Figure 4

3. Insert the SIM card into the SIM card slot and then place the tray down on top of the SIM card and gently push the tray downward onto the SIM card.
4. Slide the tray to the left until it locks into place.
5. Insert the battery as per steps 7 to 10 in the '*Replacing the Illustra body worn camera battery'* procedure.

Status LED's explained

The status LED's and flashlight are identified in Figure 1. The LED light sequences in Table 1 below apply when the camera is docked. The LED light sequences used when the camera is assigned and operational are configured from the Illustra body worn camera application. Please refer to the Illustra Body Worn Camera Configuration Guide for more information on configuring the device profiles.

Table 1: Status LED's explained

Docked Status	Left LED	Middle LED	Right LED	Flashlight
Charging	Red	Off	Off	Off
Downloading recordings	Red	Flashing Green	Off	Off
Ready for use	Red	Green	Off	Off
Camera assigned	Red	Green	Off	Flashing
Error (check camera screen)	-	-	Flashing Blue	-

Camera screen information

The 'CAMERAVIEW' screen (Figure 5) is visible when the camera is operational. The information in Figure 5 is visible on screen.

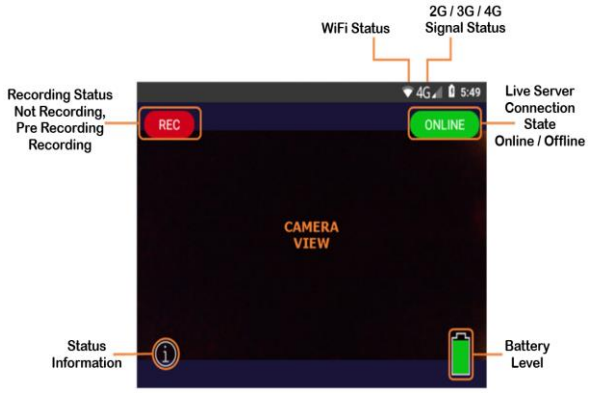

Figure 5

Table 2: Camera screen information explained

	Description
1	**Recording Status** – Not Recording, Pre Recording or Recording
2	**Wi-Fi Status** – Signal strength
3	**Signal Status** – 2G / 3G or 4G
4	**Live Server Connection State** – Online / Offline
5	**Battery Level** – % of battery left in the camera
6	**Status Information** – Identifies the server that the camera is connected to, the Live stream account name and current active network profile

Note: You must tap the 'Battery Level' and 'Status information' icons to view additional information.

Camera settings

The camera settings are configured using a device profile in the Illustra body worn camera application. If the default device profile is used, then the camera button functions will be as shown in the Figures 1 and 2. For more information on customising the camera settings using the device profile, refer to the Illustra Body Worn Camera Configuration Guide.

Software updates

Software updates must be applied to the Illustra body worn camera before using it for the first time. To update the Illustra body worn camera, follow the software update instructions in the Illustra Body Worn Camera Configuration Guide.

Battery Charging Guidance

This section outlines guidance for charging camera batteries and correct operation to maximise battery life.
Usage of the equipment outside of the guidelines may result in shortened battery life, or battery failure.
A failing battery can be identified by its failure to hold charge, or by signs of swelling - this can be seen by closely examining the camera case without having to open it.
In either scenario, remove the battery from the device and contact support at https://illustracameras.com/technical-support/. Do not use or charge the device.

Battery Lifespan

Rechargeable Lithium-Ion batteries have a rated lifespan of 500 full charge and discharge cycles. With age, batteries will gradually lose their capacity to hold a charge. This loss of capacity (aging) is irreversible. As the battery loses capacity, the length of time it will power your device (run time) decreases. Additionally, lithium-ion batteries continue to slowly discharge (self-discharge) when not in use or while in storage. It is advised that you routinely check the battery's charge status. The device should be recharged regularly to maintain the internal chemistry of the battery.

Charging Guidance

- DO charge the battery in an environment that is below 25°C. Charging above this temperature range may harm the performance of the battery or reduce the battery's life expectancy.
- DO recharge a depleted battery as soon as reasonably possible. If the camera is operated until it shuts down due to low battery, it should ideally be recharged within a day.

Charging Guidance

- DO remove the camera from the charger if it remains unused for more than 1 week. If the camera remains unused for a long period of time, it should be left off the charger and its charge should be topped up every 3 months by charging for 1 hour.
- DO replace the battery only with a replacement supplied by an approved reseller.
- DO dispose of used batteries according to local law and regulations applicable to Li-Ion batteries.
- DO apply camera updates to the latest firmware revision regularly. This will ensure it has the latest available battery-protection features. You can obtain information on firmware releases from your account manager.
- DO NOT expose the camera or battery to temperatures above or below those listed on the datasheet.
- DO NOT leave the camera in direct sunlight, especially behind glass in a car or a similar environment.
- DO NOT attempt to charge the camera while its operational. An operational camera is defined as a camera that is recording and/or live streaming.
- DO NOT leave the camera docked and charging for longer than 1 week. If the camera is expected to be unused for more than 1 week, it should be removed from the charger and kept in the following state:
  i. Powered off
  ii. Medium amount of charge
  iii. In a temperate environment, ideally at around 20°C

Battery handling and safety (continued)

- Do not disassemble or short-circuit the battery. Accidental short-circuiting can occur if a metallic object such as a key, paper clip, or pen touches the terminals of the battery.
- Improper battery use may result in a fire, explosion, or other hazard. If you believe the battery has been damaged, do not use it, take it to a service centre for testing.
- Do not attempt to disassemble the battery packs.
- Do not dispose of battery packs in a fire.
- Avoid letting the battery pack come in contact with liquid, it should be kept dry.
- Do not crush the battery pack.
- Do not store the battery pack without charge.
- Approved recycling facilities should always be used for battery disposal.

Electrostatic discharge (ESD)

Do not touch the SIM card's metal connectors.

Outdoor usage

The camera has been designed for use in outdoor environments. It can operate in temperatures from -20˚C to +50˚C.

RF energy

All wireless data transferring devices produce interference that may affect other devices which are placed nearby.

Hearing Aids

People with hearing aids or other cochlear implants may experience interfering noises when using wireless devices or when one is nearby. The level of interference will depend on the type of hearing device and the distance from the interference source, increasing the separation between them may reduce the interference. You may also consult your hearing aid manufacturer to discuss alternatives.

Hospitals

Switch off your camera when requested to do so in hospitals, clinics or health care facilities. These requests are designed to prevent possible interference with sensitive medical equipment.

Aircraft

Switch off your camera whenever you are instructed to do so by airport or airline staff.
Consult the airline staff about the use of camera devices on board the aircraft.

Explosive environments (Petrol stations and explosive atmospheres).

The camera is not to be used in locations with potentially explosive atmospheres, all posted signs to turn off wireless devices must be obeyed. Areas with potentially explosive atmospheres include but are not limited to; fuelling areas, below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

Blasting Caps and Areas

The camera encoder is not to be used in a blasting area or in areas posted turn off "two-way radios" or "electronic devices" to avoid interfering with blasting operations.

Camera Safety Notes Important Safety Instructions

- You alone are responsible for how you use your camera and any consequences of its use.
- Always treat your camera and its accessories with care and endeavour to keep it clean at all times.
- Do not expose your camera or its accessories to open flame or lit tobacco products.
- Do not drop, throw or try to bend your camera or its accessories.
- Do not use harsh chemicals, cleaning solvents, or aerosols to clean the camera or its accessories.
- Do not paint your camera or its accessories.
- Keep your camera clear of debris and other environmental contaminants.
- Do not leave the camera within the reach of young children.
- The camera may become warm during charging and during normal use.
- Only use approved accessories.
- Do not attempt to disassemble your camera.
- Refer all servicing to qualified service personnel. Servicing is required when the camera has been damaged in any way, such as a cracked or damaged enclosure or does not operate normally.
- Please check local regulations for disposal of electronic products and batteries.

Battery handling and safety

- Always switch the device off and disconnect the charger before removing the battery.
- Only use the battery and charger supplied, or manufacturer approved replacements intended for use with the camera.

Specific absorption rate (SAR)

The camera device is a radio transmitter and receiver. It is designed not to exceed limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organisation ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.
The guidelines use a unit of measure known as the Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 2 W/kg. The highest SAR value for this device when tested complied with this limit.
The SAR figures for body worn operation have been verified for operation with a 5mm separation distance from camera to the body.

Limiting exposure to radio frequency (RF) fields

For individuals concerned about limiting their exposure to RF fields, the World Health Organization (WHO) provides the following advice:
Precautionary measures: Present scientific information does not indicate the need for any special precautions for the use of mobile phones. If individuals are concerned, they might choose to limit their own RF exposure by limiting the duration of cellular operation.
Further information on this subject can be obtained from the WHO home page http://www.who.int/peh-emf WHO Fact sheet 193: June 2000.

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 15 cm be maintained between body worn devices and a pacemaker to avoid potential interference with the pacemaker. To achieve this the camera must not be carried on the chest.

Medical Devices

Please consult your doctor and the device manufacturer to determine if operation of your phone may interfere with the operation of your medical device.

FCC COMPLIANCE STATEMENT

This device contains module FCC ID: 2ABOE-BW600
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 Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
FCC Notice: The camera is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CRF part 2 (2.1093) and ANSI/IEEE C95/1-2005 and has been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

CE COMPLIANCE STATEMENT

The camera complies with the following European Union Directives.

- Radio equipment directive RED 2014/53/EU
- EMC Standards: EN301 489-1 V2.2.3, Draft EN301 489-3 V2.1.2, EN301 489-17 V3.1.1, Draft EN301 489-19 V2.2.0 & Draft EN301 489-52 V1.1.2
- Spectrum Standards: EN 300 328 V2.2.2, EN 301 893 V2.1.1, EN 300 440 V2.2.1, EN 300 440 V2.2.1, EN 303 413 V1.2.1, EN 301 511 V12.5.1, EN 301 908-1 V13.1.1, EN 301 908-2 V13.1.1 & EN 301 908-13 V13.1.1
- Low Voltage Directive LVD 2014/35/EU
- Standards: IEC 62368-1:2014 (Second Edition), EN 62368-1:2014 + A11:2017, EN 62209-2:2010; EN 50566:2017 & EN 62479:2010
- Electromagnetic Compatibility EMC 2014/30/EU
- Standards: EN 55032:2015 + A11:2020 & EN 55035:2017

Regulatory Compliance

Exposure to radio frequency energy (SAR)

This device has been tested and does not exceed the limits regarding human exposure to electromagnetic radiation set forth in related FCC and CE standards. The radio wave exposure guidelines use a unit of measurement known as the Specific Absorption Rate (SAR).

Test Standard and SAR Limit	Test Location	Camera SAR
CE (Maximum: 2.0W/kg)	Body worn (within 5mm)	0.988W/kg
FCC(Maximum:1.6W/kg)	Body worn (within 10mm)	0.957W/kg