



PERCEPT™

Expand your senses.

Quick Start Guide
Version 1.1
July, 2022

IO NODES



DESCRIPTION

The PERCEPT Body Camera is an IoT-connected open-platform wearable device designed for commercial and enterprise applications. It features 4G LTE and Wi-Fi connectivity, immersive 180° video at 4K resolution, bi-directional audio, motion-sensing and multiple innovative functionalities, making it ideal for customers that need a real-time body worn monitoring and recording solution.

Combined with the PERCEPT Cloud Solution, gain a secure and reliable on-demand live video streaming and storage solution accessible from anywhere, anytime via web and mobile apps. Offering direct camera-to-cloud connectivity, the PERCEPT Cloud Solution is a complete camera management solution offering innovative features such as real-time location tracking, centralized camera software upgrades and remote access for camera control and configuration. With both Wi-Fi and LTE connectivity options, the PERCEPT Body Camera Solution can easily adapt to any deployment scenario.

The PERCEPT Body Camera Solution has been designed for commercial and enterprise use in various markets and applications including private security, transportation, warehousing, retail, industrial, manufacturing and more. Use cases include staff safety, incident reporting, resource and asset tracking, efficiency monitoring, live remote assistance, training, service optimization and theft deterrence.



Icons used in this document for user feedback are as follows:

Icon	Description	Repeat interval (examples)
	Steady single-color LED	N/A
	Flashing single color LED	1000 ms
	Rapid flashing single color LED	250 ms
	Flashing LED – Alternating colors	500 ms
	Heartbeat single color LED	250 ms ON/OFF/ON + 1250ms OFF
	Audio sound	Once
	Beeping sound	10 secs
	Vibration*	Varies

*When haptic feedback occurs, the OLED screen momentarily displays corresponding action or state change



CHARGING YOUR CAMERA

- Use the supplied USB-C cable and a compatible USB charger (minimum 1A)
or
- Charge your camera to full battery capacity using a PERCEPT docking station.



User Feedback	
	Charging Flashing yellow LED
	Fully charged Steady blue LED



POWERING YOUR CAMERA ON/OFF

- Turn on your camera by pressing and holding the power button for 3 seconds.
- Turn off your camera by pressing and holding the power button for 5 seconds.



User Feedback	
	Booting Flashing cyan LED
	Ready Steady blue LED



INITIALIZING YOUR CAMERA

1. Power on your camera, wait to see the "Scan Initial QR" message on the OLED screen
2. Visit <https://www.ionodes.com/percept-body-cam-QR/> from a computer or mobile device
3. Enter the required information to generate a QR code
4. Scan the QR code with your PERCEPT Body Camera.

User Feedback	
	Waiting for QR scan Heartbeat blue LED
	QR scan successful Steady blue LED



Scan to visit the PERCEPT Body Cam QR web page

Select QR code type to generate:

☒ Initial camera setup

☐ Wi-Fi settings (Wearer ID optional)

☐ Wearer ID only

Enter your WiFi network name (SSID):

Enter your WiFi network password:

Choose the 'administrator' password:

Repeat the 'administrator' password:

Choose a language:

Select a Cloud service:

Do you want to enable silent mode?

Is the Wearer ID required?



RESETTING YOUR CAMERA'S WI-FI SETTINGS

When using the device with more than one wireless network, perform the following steps to connect it to another network within range. Press **both F2** and **F4** buttons **simultaneously** for more than 5 seconds until you see the message "Scan QR Code" on the OLED screen. Follow the instructions above for generating and scanning QR code, this time selecting the Wi-Fi settings QR code type.

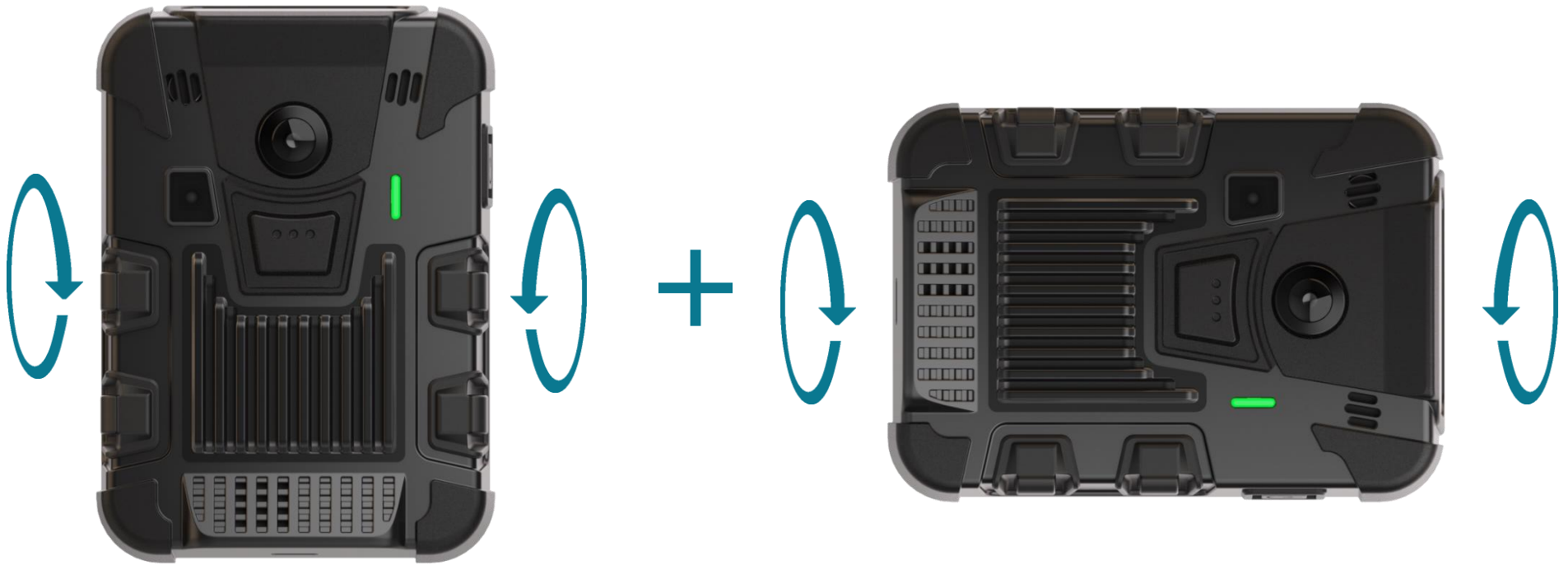


User Feedback	
	Waiting for QR scan Heartbeat blue LED
	QR scan successful Steady blue LED



CALIBRATING THE CAMERA'S 9-AXIS MOTION SENSOR

Following certain operations, like a complete device reset for example, a message might appear on the OLED screen that the PERCEPT Body Camera 9-axis motion sensor must be recalibrated. To do so, simply hold the camera vertically and slowly rotate it 360° and then hold it on its side and repeat the 360° movement as indicated in the images below. One calibrated, the calibration message will disappear from the OLED screen.



Step 1

Hold the PERCEPT Body Camera upright and slowly rotate 360°.

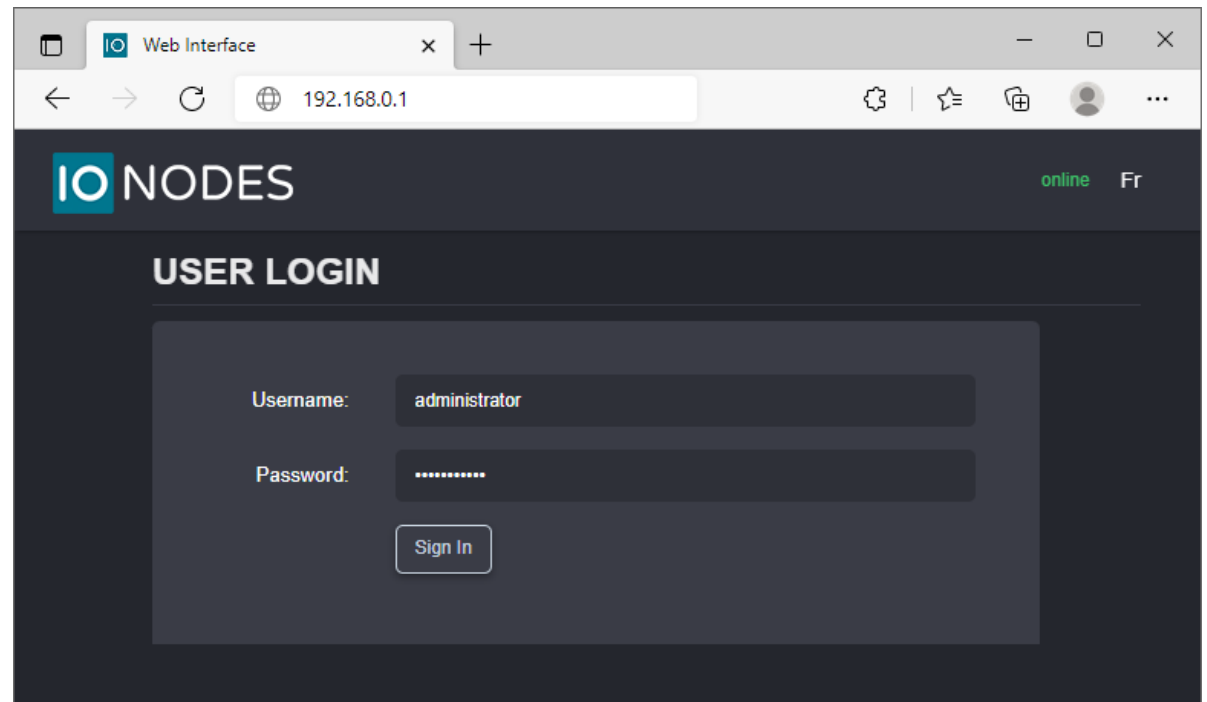
Step 2

Put the PERCEPT Body Camera on its side and slowly rotate 360°.



ACCESSING ADVANCED CONFIGURATION

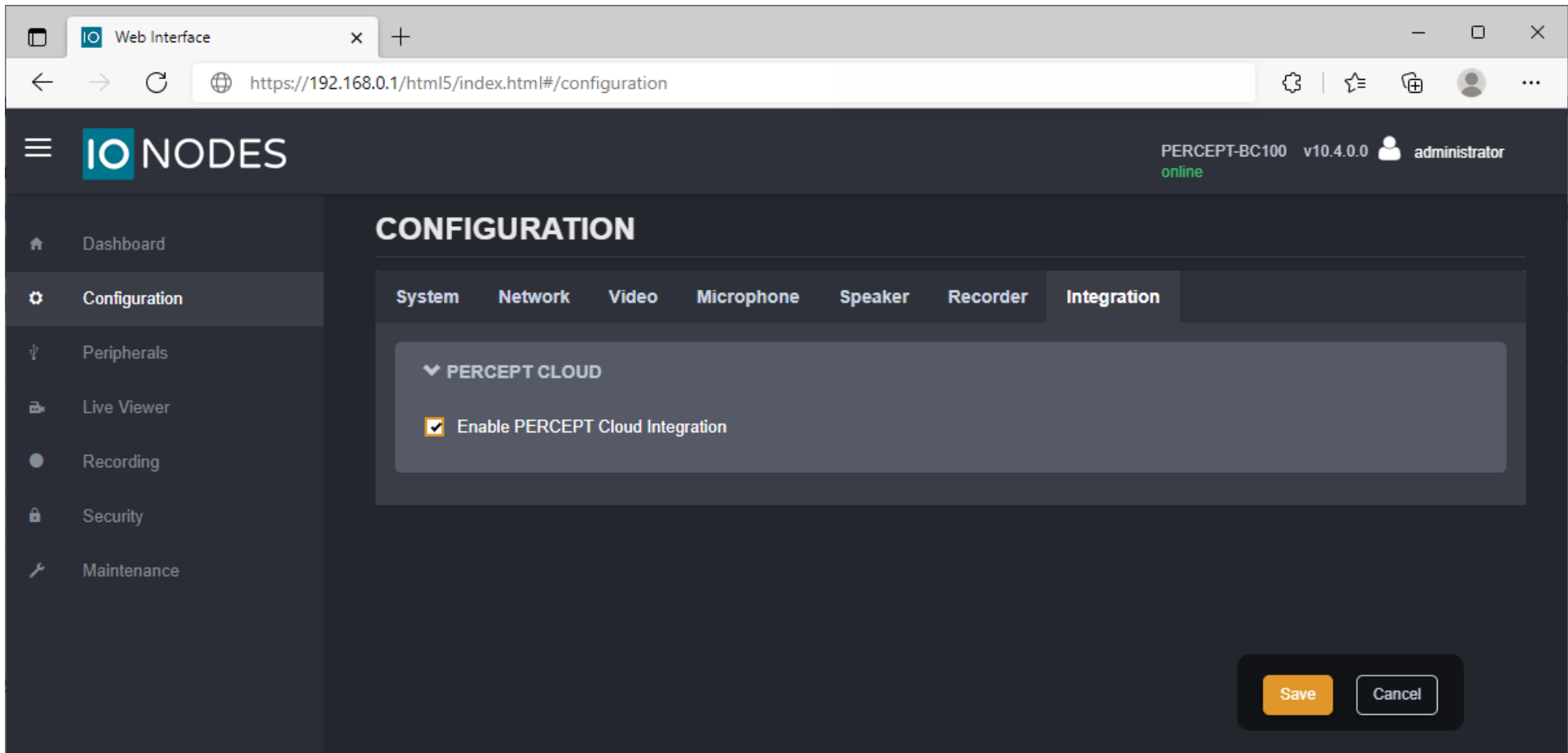
Cycle through camera status messages on the OLED screen by pressing on the power button for less than 3 seconds. Note the camera's Wi-Fi connectivity  and IP address . From a computer or mobile device connected to the same network as the camera, open the device's web management interface by entering its IP address in a web browser. Enter Username 'administrator' and the Password set during device's initialization phase (QR code). Refer to the User Manual for details on the configuration options available through the web interface.



ENABLING PERCEPT CLOUD

To enable communication between the body camera and PERCEPT Cloud, log on to the web interface. Under the **Configuration** menu, **Integration** tab, expand **PERCEPT Cloud**, check the box to **Enable PERCEPT Cloud Integration** then **Save** the configuration.

Please refer to the PERCEPT Cloud User Manual for cloud configuration.



RECORDING CONTINUOUS VIDEO

When integrated with PERCEPT Cloud or an ONVIF Video Management System (VMS), continuous recording can be configured from the cloud or VMS application. The camera will stream to the cloud or VMS whenever network connectivity is established. Otherwise, use function buttons to start and stop continuous recording onto local storage. Refer to PERCEPT Cloud User Manual to configure local recordings cloud sync, or to the corresponding integration guide for edge transfer to VMS.

- Pressing the front facing F5 function button for less than 3 seconds will START continuous recording.
- Pressing and holding the F5 button for more than 4 seconds will STOP continuous recording.

Note: If the PERCEPT Body Camera is powered off, pressing and holding either the F1, F3 or front facing F5 buttons for more than 3 seconds will automatically turn on the device and enter continuous recording mode.



User Feedback	
	Streaming Alternate flash red/green LED
	Recording Heartbeat red LED
	Ready Steady blue LED



RECORDING VIDEO EVENTS

With PERCEPT Cloud integration:

- Use F5 function button to record an event tagged “*Emergency*” of variable duration (< 3 seconds to start, > 4 seconds to stop).
- Press either the F2 or F4 function buttons to record an event tagged “*Moment of interest*” with configurable pre- and post-event duration.

Without PERCEPT Cloud integration:

- Press either the F1 or F3 function buttons for less than 3 seconds to record an event with configurable pre- and post-event duration.

Note: If the F5 function button is pressed while an event recording is in progress, the device will switch to continuous recording.



User Feedback	
	Recording Heartbeat red LED
	Ready Steady blue LED



RECORDING A STILL IMAGE

- Press either the F2 or F4 function buttons for less than 3 seconds to capture a still image saved to local storage.



User Feedback	
	Capture a still image 1 x 500 ms flash
	Ready Steady blue LED

TURNING THE FLASHLIGHT ON/OFF

- Turn the camera's white LED flashlight on or off by pressing **both** the F2 and F4 buttons **simultaneously** for less than 3 seconds.

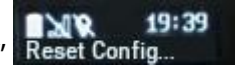


User Feedback	
	Ready Steady blue LED



RESETTING YOUR CAMERA

Press **all** F1, F2, F3 and F4 buttons **simultaneously** for more than 5 seconds until you see the message “Reset Config...” on the OLED screen. The camera will reset to factoring settings and reboot. Follow instructions in this guide for initializing the unit.



User Feedback	
	Reset Configurations Steady blue LED



USING ACCESSORIES & OPTIONS

Mounting hardware

- A standard Klick Fast stud and clip is included with your PERCEPT Body Camera.
- Multiple other Klick Fast mounting options are also available. Please contact with our sales team for more information.



Docking station

The PERCEPT docking station allows charging and connecting to a wired network for file transfers and configuration. In deployment scenarios where recordings are stored on the body camera and offloaded periodically to a Video Management System (VMS), the docking station is a key accessory for charging and high-bandwidth data transfers in a single operation.

