



PERCEPT™

Expand your senses.



INNOVATIVE

Wearable IoT Solution.

The IONODES PERCEPT body camera is more than just a wearable camera, it's a complete IoT-connected multi-sensor device. Extensive remote networking capabilities allow you to interact with the camera through 4G LTE and/or Wi-Fi networks. On-board capabilities include world-leading 180° immersive video capture at up to 4K resolution, bi-directional audio, GNSS tracking, high-performance Qualcomm™ processing and a true open-platform API for ease of integration into any management software solution.



See more, see better.

Record critical video events in high resolution and never miss a detail through a Panomorph lens with 180° field of view. Panomorph lens technology offers exceptional level of detail from the center of the image to the edge, as opposed to traditional fisheye lenses.

Combined with market-leading hi-resolution video, H.265 / HEVC video compression and motion-based image stabilization the video quality is simply the best you can get from a mobile wearable device.



Embedded QR Codes – Every video frame includes watermarked metadata such as GNSS position, wearer ID and 9-axis motion information.



Image Stabilization – A 9-axis motion sensor captures real-time orientation and acceleration of the camera, allowing for accurate image stabilization.



High Quality Video – Panomorph lens technology provides a higher level of detail across the entire 180° field of view when compared to standard wide-angle or fisheye lenses.



VERSATILE

Multi-Purpose Features.

Remote Connectivity

Always-on networking through 4G LTE or Wi-Fi allows for live remote access to the camera for alert notifications, live streaming and remote control.

Flexible Recording

On-board recording functions allow for local recording to secure flash storage as well as automated upload to on-premise or cloud-based VMS solutions.

Location Tracking

Accurate GNSS positions can be captured, streamed and recorded, allowing for complete control over device location tracking functions.

Task Optimized

Built tough, the camera is designed to operate in harsh environments and power optimizations allow it to be used during entire shifts without compromise.





INTEGRATIONS

Open Platform.

The IONODES Percept body camera is designed to be integrated into practically any software solution, on-premise or cloud through ONVIF, the global open standard for IP device integration. ONVIF Profiles G, S and T compatibility enables virtually limitless control over configuration, media streams, events, metadata and recorded content.

ONVIF® | GST

Innovative solution for wide-ranging applications.



Solving Industry Challenges

A growing number of private and public organizations are looking towards wearable cameras as a means to improve safety, enhance security, optimize business processes and provide transparency.

The inclusion of a remotely-accessible body camera in day-to-day activities can also help solve operational challenges by providing real-time feedback and situational awareness. Typical applications include private security, public safety, manufacturing, logistics and transportation services.

Market Driven Design

Designed as a ruggedized open platform device, the PERCEPT body camera boasts the durability, flexibility and performance needed to address the needs of a wide range of applications in a diverse set of markets.

The use of Qualcomm™ technology, global leader in mobile processors headquartered in North America, ensures compliance to multiple worldwide government regulations restricting the use of foreign technology in specific markets and applications.

Function Buttons
Event Recording
Still Image Capture
Flashlight

Speaker
Action Feedback
Alert Notifications

Flashlight

Dual Mic
Noise Filter
Stereo Audio

Camera
4K Video
180° FoV

Status
Recording
Health

Power

Function Buttons
Event Recording
Still Image Capture
Flashlight

Mount
Klick Fast System



Status
Recording
Health



OLED Screen
Alert Notifications
System Status
Network Status



USB-C Port
Charging
Data Transfer

INTUITIVE Designed to be worn.

Ergonomy takes center stage, ensuring user interactions are instinctive, and the position of each element is tuned to ensure optimal performance when worn.

Technical Specifications

Networking	3G / 4G LTE (Dual-Sim Supported)	North America LTE-FDD: B2/B4/B5/B7/B12 to B14/B17/ B25/B26/B66/B71 LTE-TDD: B41 WCDMA: B2/B4/B5 EMEA / LATAM LTE-FDD: B1 to B5/B7/B8/B20/B28 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8 GSM/EDGE: 850/900/1800/1900MHz	Recording	Post Event	Configurable, up to 300 sec. post
	Wi-Fi	2.4G/5GHz, 802.11 a/b/g/n/ac		Types	On-Alarm and on-demand
	Bluetooth	BT 4.2LE		Auxiliary	Flashlight
Camera	Still Image	Image capture at up to 8.3MP (JPEG)	Battery Pack (Li-Po)	Capacity	6,000 mAh
	Video	4K (8.3MP) / 6MP / 4.2MP / 2.3MP / 1MP / 0.6MP at up to 30 FPS; H.264 / H.265 HEVC compression		Operating Time	Up to 16 hours depending on configuration
	Lens	Type: Panomorph, 180° Horiz. / Vert. Field of View Focus range: 24 inch to infinity		Charging Time	<= 4 hours
	Watermarking	Data in picture includes date, time, GNSS position and 9-axis motion for image stabilization	Integration	Supported API's	ONVIF Profile G, S and T IONODES ION API (HTTP-based RESTful API)
Audio	Microphones	Dual microphones / left and right AAC audio compression	Compliance and Certifications	EMC / ESD	FCC part 15 subpart B, ICES 003 Class B, EN 55032 Class B, EN 55035, EN 61000-6-1, EN 61000-6-2, EN 301489-1, EN 301489-17
	Speaker	Speaker output / 1.3W max. power		Safety	EN 62368-1, NOM (Mexico)
USB	USB Type-C	Supports Quick Charge 3.0 / max. 2A charge current Data transfer via optional charging dock		Environmental	Shock, water and dust resistant
	Sensors	Motion Sensing		9-axis, accelerometer, gyroscope and magnetometer	Operating Temp.
Indicators		Status LED		Top facing and front facing RGB status LED	Storage Temp.
	Positioning	OLED Display		0.9 inch, top facing, 128 x 32 dot OLED display	Mechanical
Storage		Satellite Positioning	GPS / BeiDou / GLONASS	Weight	
	Storage	Internal microSD	64GB	Accessories	Standard
			Optional		Klick Fast mounting accessories
			Warranty	Power adapter	Not included. Use provided USB-C cable to connect to a Quick Charge 3.0 USB charger or use a PERCEPT docking station.
				Standard Warranty	2 Years



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SOCIAL



IONODES is focused on pushing the boundaries of video technology, developing the latest in IoT and wearable video solutions. Our experience in IP video and our strong partnership with industry leaders allow us to deliver innovative products designed to enhance people's lifestyle while ensuring their safety and security.

* Panomorph lens technology is powered by IMMERSIVISION 

