Head-mounted Edge Computers for Industrial Workers

PPE Compatible

Fits all standard PPE: helmets, bump caps, climbing helmet, safety glasses, and ear plugs ... ATEX Zone 1 version

Full-shift Power

10 hours per battery, field-swappable for continuous usage

High Def Camera

Broadcast local stream (or record and upload) video for video conferencing, screensharing, whiteboardng, and document viewing

3G 4G LTE (wifi)

Connectivity
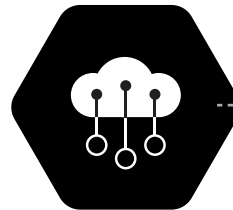
Full access to global networks

Heads-up SafeSight™

Monocular, full field of vision providing the viewing equivalent of a high-def 7-inch screen

Swing Arm Display

Flip for viewing left or right dominant-eye and up or down for greatest comfort

Industrial IoT Infrastructure

Global web-scale platform for provisioning managed workspaces as a service and integrating enterprise applications to connected workers

Connected Workspaces

Pre-installed and configured ... Everything you need to do the job right the first time ... just one voice command away! *Works OFFLINE and re-syncs when back ONLINE*

World's first head-mounted computer for industrial workers ... hands-free voice interface, ruggedized, and safe

The SmarTECHS IA Edge provides the foundation for a Connected Worker program. Use it in wet, dusty, hot dangerous or even the loudest of industrial environments.

As a ruggedized head-mounted computer, just snap it into safety helmets and wear it with safety glasses or corrective eyewear.

The heads-up micro-display fits just below your line of sight. It's a discreet worker's dashboard: there when you need it and out of your way when you don't.

The SmarTECHS IA Edge uses powerful software applications and workflows from the SmarTECHS IA Suite ... all optimized for hands-free voice control ... No scrolling, swiping, or tapping. All key functions just one voice-command away.

Specifications for the SmarTECHS IA Edge

Core Platform & Functions

Operating System	Android 8 (AOSP) + WearHFTM hands-free interface
Chipset	2.0 GHz 8-core Qualcomm® SnapdragonTM 625 with Adreno 506 GPU - OpenGL ES 3.1 & OpenCL 2.0
Memory	16 GB Internal Storage / 2 GB RAM / MicroSD slot (max card supported 256 GB)
Included Applications	Document Navigator, Camera with Barcode Reader, Video Recorder, Media Player
Languages Supported	English, Spanish, French, German, Italian, Portuguese, Russian, Mandarin Chinese, Japanese, Korean, Thai, Polish

Connectivity & Sensors

Bluetooth	BT 4.1 LE (Low Energy)
Wi-Fi	802.11 a/b/g/n/ac – 2.4GHz and 5GHz
GPS and Location	GPS, GLONASS, A-GPS
IMU	9-DOF (3-axis accelerometer, magnetometer, and gyroscope), software enhanced stabilization

Battery

Capacity	3250 mAh Li-Ion, rechargeable and field-swappable
Battery Life	Full shift (9-10 hrs) with typical use

Physical Characteristics

Weight	380 g
Ruggedization	2 meter drop, IP66, MIL-STD-810G
Dedicated Keys	Keys Power key, application specifc action key
Ports	3.5mm audio, 1 micro-USB, 1 USB Type-C
Boom Arm	Adjust six ways for all head sizes, left or right eye-compatible, display flips out of way when not in use

Display

Type	20 degree field-of-view, 1 meter fixed focus, 24-bit color LCD, 0.33 inch diagonal, outdoor visible
Resolution	WVGA (854x480)

Audio

Microphones	4 digital microphones with active noise cancellation. Accurate voice recognition even in 95 dBA of typical industrial noise
Speaker	Internal 91 dB loudspeaker

Multimedia

Camera	16 MP 4-axis optical image stabilization, PDAF with LED Flashlight
Videos	Up to 1080p @30fps. Codecs: VP8, VP9 and hardware encoding support for H.264, H.265 HEVC

Accessories

Included	Battery Wall Charger, USB Type-C Charging Cable
Optional	Spare Battery, 6 Battery Multi-Charger, Hard Hat Clips, Bump Cap, and Tri-Band Strap, Ear Bud Hearing Protection Headphone rated at 33dB noise reduction rating (NRR), Soft Pouch Carrying Case, Semi Rigid Carrying Case, Replacement Overhead Straps and Rear Pads