

CONNECTED ASSET LIFECYCLE MANAGEMENT

ABB Ability™ Ellipse® WFM Hands-Free Inspector

Voice-controlled heads-up display for safer, more efficient work.



Field technicians are always using their hands. It's their most important tool, whether stabilizing themselves on a tower or making equipment repairs on solid ground.

ABB and RealWear™ are enabling technicians to use their hands for their work instead of holding pen and paper, documents or devices.

To hold schematics or mobile devices, or to transcribe inspection readings, technicians must put “wrench time” on hold – sacrificing efficiency – or attempt to assess and address the repair at the same time – sacrificing safety.

Not anymore.

With ABB Ability Ellipse WFM and the Hands-Free Inspector, technicians can view work order details or schematics, record data, even chat or live-stream video with co-workers, all using intuitive voice commands. So they can keep their hands – and minds – focused on doing the job quickly, correctly and safely.



Features

Safety

- Keep hands free while reading information, following inspection scripts, completing forms using voice to text
- Designed for mobile and industrial workers; compatible with standard safety helmet and glasses/goggles
- Maintain awareness of surroundings (unlike a standard VR headset)
- Pivoting arm allows technician to swing display out of the way (behind line of sight)

Efficiency

- Have work order information in sight while performing work
- Complete forms, record information and take photos
- Video chat allows techs to live-stream the component/problem they're working on and discuss with remote co-workers or back office

Purpose-built

- Can be mounted on standard safety helmet; compatible with standard safety and corrective glasses
- Screen sits just below sight line to maintain awareness of surroundings
- Rugged – designed to withstand two-meter drop onto concrete
- Noise canceling
- IP66 = dustproof, waterproof
- Operates from -20C to 50C / -4F to 122F
- Field-swappable battery designed to last entire shift

Benefits

Fewer errors/return trips; less re-work

- Get repairs and inspections right the first time by having the script, order details or component schematics visible/available at all times to guide technicians through the inspection/repair
- Digitize work completion data while performing the work (instead of trying to memorize or scribble down readings and then transcribe them later)
- Get help on-site when you need it – send photos or stream video to co-workers for live guidance and troubleshooting while performing the job

Safety

- Keep technicians' hands free to perform work and ensure safety
- Less fumbling to record data, dropping notes or devices
- Ensure proper procedures are followed by having them available while performing the work

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Key Hands-Free Inspector specifications

- OS: Android 6 + WearHF hands-free voice-activated interface
- Connectivity: Bluetooth® (low-energy), WiFi (2.4 and 5GHz), GPS
- Camera: 16MP autofocus with 4-axis optical stabilization; video up to 1080p @ 30fps; built-in microphone
- Memory: 16G internal expandable with MicroSD card
- Ruggedized: two-meter drop, IP66, MIL-STD-810G
- Mounting: Compatible with standard hardhat or bump cap, right- or left-hand mount
- Integrated speaker
- 3.5mm audio jack for use with hearing protection

