PROGLOVE

SYSTEM

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READY FOR 4.0

ProGlove's smart gloves connect the worker to Industry 4.0.

From complex production steps on the assembly line to small-part picking in the warehouse: Every second counts in industrial operations to improve workflow efficiency.

ProGlove is the standard for wearable scanners and process analytics to bring quality and speed to your operations.
Our ergonomic wearable scanner enables your workforce to be truly hands-free, allowing for the efficiency, safety, and insights you need to optimize processes to the next level.

> **We believe that despite artificial intelligence and automation, humans remain an irreplaceable part of industry.**

explains ProGlove-CEO Andreas König.

PROGLOVE SYSTEM

WORKERS HIGH IMPACT MEASUREABLE

SPEED

The elimination of non-value added process steps enables faster and more efficient work

ERGONOMICS

Hands-free scanning enables ergonomic work. Weight savings of up to 1.5 tonnes per shift!

QUALITY

Worker guidance ability reduces mistakes and process analytics improves quality.

PLUG & PLAY

Easy backend integration to Android, iOS, Windows and Linux with BLE, USB or WIFI

FEATURES

- Three-component system: Wearable with integrated trigger, smart scanner modules, and connectivity software
- Real-time feedback (visual, acoustic, haptic)
- Accelerated 1D/2D barcode capture with powerful scan engine

USE CASES

ProGlove replaces the traditional scanner with a wearable documentation and guidance system. Until now, using handheld scanners cost the user a lot of time by having to pick up and put back the scanner. For both 1D and 2D barcodes, the ProGlove System enables you to scan and work at the same time which creates more efficient logistics and production workflows. The ProGlove System optimizes processes, eliminates process steps and reduces errors. The scanner module is available in different models and with additional software features for a variety of use cases.

EXAMPLES FOR LOGISTICS

Inbound
Receiving, sorting, putting away ...

Picking
Supermarkets, small parts picking ...

Material transport
high level order pickers, picking trolleys ...

Outbound
Paletting, packing, shipping ...

EXAMPLES FOR PRODUCTION

Assembly lines
Pre-assembly, final assembly ...

Material handling
Just in Sequence: Kitting, sequencing ...

Work stations
Quality control, rework ...

KANBAN
Reordering, milk run ...

OUR REFERENCES

CUSTOMERS

STRATEGIC PARTNERS

MARK Display

MARK Display is the lightweight, ergonomic wearable scanner that presents crucial information when and where your workers need it most. The smart scanner module replaces traditional Mobile Computer Guns in combination with any smart device.

MARK DISPLAY MOBILIZES:

The hand-free, real-time, data-first approach provides flexibility and independence for picking, sorting and sequencing processes. MARK Display is designed with a non-reflective e-ink display right at the back of the hand to communicate essential process details right within line of sight.

Connection via Bluetooth Low Energy

mid range
Scan enginge: Scan range of 30cm / 12in to 150cm / 59in

Optic, acoustic and haptic feedback function and direct messaging via display

Accelerated 1D/2D barcode capture using a powerful scan engine

TECHNICAL SPECIFICATIONS

- **Size:** 50mm x 45mm x 18mm / 1.9in x 1.7in x 0.7in
- **Weight:** 48g / 1.7oz
- **Connectivity:** Android App, iOS SDK or via USB (Gateway)
- **Protection class:** IP 54
- **Battery runtime:** approx. 10000 scans

mid range
Scan enginge: Scan range of 30cm / 12in to 150cm / 59in depending on barcode size

standard range
Scan engine: Scan range up to 80cm / 31in depending on barcode size

Optic, acoustic and haptic feedback function

Accelerated 1D/2D barcode capture using a powerful scan engine

915/868 MHz
Connection via Bluetooth Low Energy and 868 / 915 MHz

MARK 2

MARK 2 is the workhorse of the MARK family of wearable scanners. Lightweight, rugged, and ergonomic, employees throughout supply chains save up to 4 seconds per scan with the MARK 2 wearable scanner because it's always at hand, whatever the situation.

MARK 2 IS DIFFERENT:
MARK 2 comes in two ranges: Mid Range – for busy and demanding logistics environments, and Standard Range – for assembly and production environments where agility is key.

TECHNICAL SPECIFICATIONS

- **Size:** 50mm x 45mm x 15mm / 1.9in x 1.7in x 0.5in
- **Weight:** 40g / 1.4oz
- **Connectivity:** Android App, iOS SDK, via USB (Gateway/ Access Point) or RS232 (Access Point)
- **Protection class:** IP 54
- **Battery runtime:** approx. 10000 scans

MARK Basic

MARK Basic is your entry to hands-free scanning - ideal for workstations with a low to medium number of scans. Experience the logistics-optimized industry wearable.

MARK BASIC STARTS IN A SNAP:
MARK Basic uses the industry standard Bluetooth Low Energy to easily connect to terminals, tablets or smartphones regardless of system. Thanks to its straightforward design, users start to work more efficiently after one day of adaptation. No training needed.

Connection via Bluetooth Low Energy

mid range
Scan enginge: Scan range of 30cm / 12in to 150cm / 59in depending on barcode size

Optic, acoustic and haptic feedback function

Accelerated 1D/2D barcode capture using a powerful scan engine

TECHNICAL SPECIFICATIONS

- **Size:** 50mm x 45mm x 15mm / 1.9in x 1.7in x 0.5in
- **Weight:** 40g / 1.4oz
- **Connectivity:** Android App, iOS SDK or via USB (Gateway)
- **Protection class:** IP 43
- **Battery runtime:** approx. 5000 scans

WEARABLES

INDEX TRIGGER

THE ALL PURPOSE WEARABLE

- Comfortable form fit, wraps around in one motion for ergonomic hands-free scanning
- Full dexterity and lightweight comfort enable higher scan speeds
- Compatible with or without other working gloves

Lateral release between thumb and index finger

S, M, L for left or right hand, variable adaptable by industrial velcro fastener

3 X 10 X

REEL

FLEXIBLE, LOW SCAN VOLUME WEARABLE

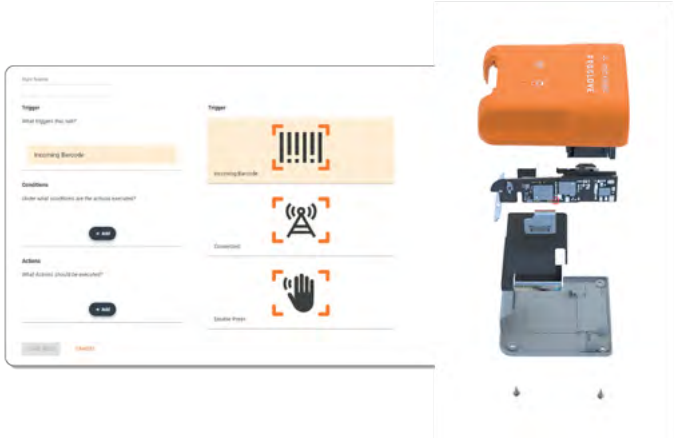
- Worn on a tiltable clip or lanyard, ready at the press of a button
- Accessible and convenient to scan what you need, when you need
- Perfect for workspaces with special glove requirements and for handling sensitive assets

Automatically releasing the scan engine when pulling it out. Additional release button

Two possibilites: Tiltable clip and lanyard

2 X

PROGLOVE Insight Webportal



OPTIMIZED DEVICE SETUP

YOUR INFORMATION AND CONTROL CENTER FOR DEVICE SETUPS AND ROLLOUTS

- ✔ Enhance processes by improving scanning performance with enhanced device settings
- ✔ Download center for Firmware, App and SDK

ProGlove Insight is an API-first platform which unlocks the untapped potential of a connected workforce.
By leveraging a new wearable dataset its services help you to improve Device Lifecycle Management plus develop process understanding and actionable insights on dynamic events. Integrate the Insight platform APIs directly into your business applications to build a single source of truth for critical business data.

Register for free at **www.insight.proglove.com**

DEVICE VISIBILITY

ESSENTIAL WINDOW INTO DEVICE LIFECYCLE MANAGEMENT

- Find all metadata in one place - serial number, battery information, app configurations, firmware version and more.
- Identify active, idle or out of service devices

PROCESS ANALYTICS

CONTEXTUALIZED INSIGHTS YOU CAN ACT ON

- Compare station performance and efforts across site and even across company
- Visualize sequential job activities easily
- Develop new metrics to analyze performance

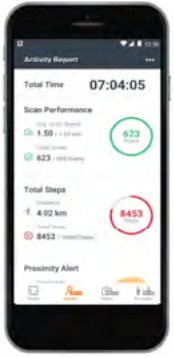
PROGLOVE Insight Mobile

The Insight Mobile App for Android transforms the ProGlove wearable scanner into a companion for your workforce with capabilities that go well beyond barcode scanning.
The app delivers key utilities that are highly valued by a mobile workforce.

For example, shorten rampup time for each shift with a fail-proof way to connect all necessary devices by using the Scan to pair function.

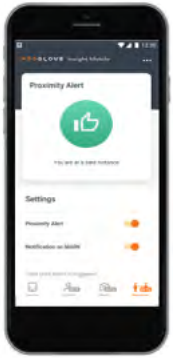
Download for free at **www.insight.proglove.com**

EMPLOYEE WELL-BEING



ACTIVITY FEATURE

Daily visualization for your workforce to selftrack goals, performance and activities – all offline



PROXIMITY FEATURE

Keep your workforce healthy by empowering them to keep a safe distance. Anonymous and local.

PROCESS ENHANCEMENT

SCAN2PAIR

- Easiest way for your workforce to pair the scanner to an Android device

PHOTO DOCUMENTATION

- Resolution up to High Definition
- Activtation possible with the trigger
- Upload photos into ProGlove Insight

WORKER FEEDBACK

- Direct feedback on process steps on MARK
- Configurable optical, acoustic and haptic feedback
- Active or responsive triggers programmable

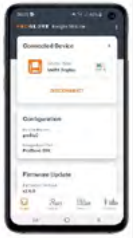
BUTTON

- Make any interaction as easy as scanning with a double tap of the button
- Use different actions based on different working profiles
- Ideal for confirmation, validation or function key inputs

CONNECTIVITY OPTIONS

Whether you use Windows, Linux, Android or iOS as your operating system, ProGlove meets the prerequisites for fast integrations. Start with Plug & Play solutions via USB HID or BLE HID, or choose a deeper integration with your tech. Our solution is built for your environment, whether you use SAP, Oracle, a telnet-based system or your own enterprise resource planning system.

For further documentation please visit **developers.proglove.com.**



INSIGHT MOBILE (ANDROID)

Zero-touch deployment via SDK and Intent

INSIDE MOBILE (IOS)

A simple SDK to get the basic work done.

GATEWAY (WINDOWS/LINUX)

Connect via USB. Plug&Play support for advanced features

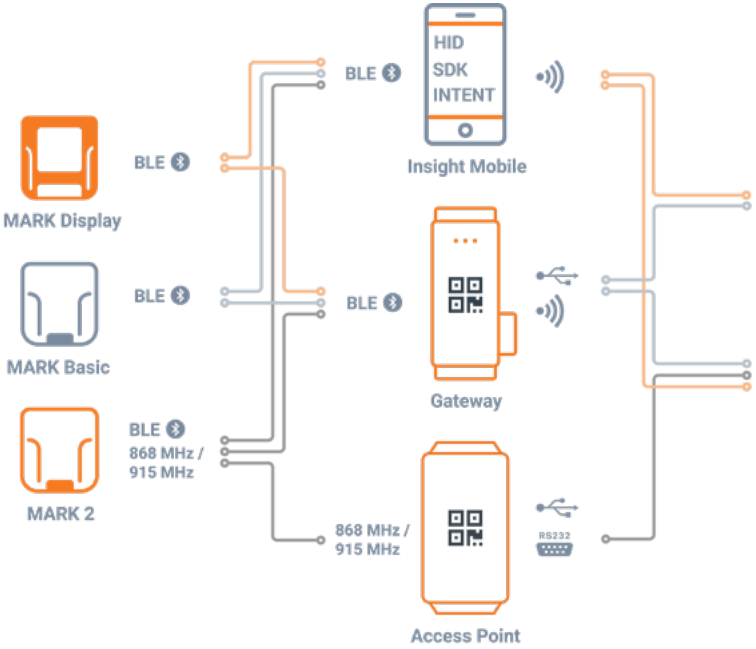
BLE HID

Instant connection for basic scanning function (keyboard).

ACCESS POINT

Connect to BLE restricted areas via USB and RS232.

DATA TRANSMISSION



CONNECTIVITY TAILORED TO YOUR SYSTEM

- ✔ Native App
- ✔ Telnet Based

Insight

WMS/MES

MDM