



## ProGlove Mark 2 – Der Wearable Scanner für Industrie 4.0 Anwendungen



### Kompaktes und leichtes Design für maximale Bewegungsfreiheit

Mit einem Gewicht von nur 40 Gramm und Abmessungen von 50 x 45 x 16 mm ermöglicht der ProGlove Mark 2 freihändiges Scannen, ohne die Bewegungsfreiheit des Benutzers einzuschränken.



### Robustes Gehäuse für den industriellen Einsatz

Der Scanner verfügt über ein stabiles Gehäuse, das gegen Schläge, Staub und Wasser geschützt ist. Mit einer Schutzklasse von IP54 und einer Sturzsicherheit aus bis zu 2 Metern Höhe ist er ideal für den Einsatz in anspruchsvollen Umgebungen geeignet.



### Effiziente Barcode-Erfassung mit variabler Leseentfernung

Der ProGlove Mark 2 erfasst zuverlässig 1D- und 2D-Barcodes. Die Standard-Range-Version ist für Scan-Entfernungen zwischen 10 und 60 cm optimiert, während die Mid-Range-Version Barcodes aus Entfernungen von 30 bis 140 cm lesen kann.



### Anbindung per Bluetooth LE

Der Scanner lässt sich schnell und zuverlässig per Bluetooth Low Energy mit Mobilgeräten, Tablets und Terminals verbinden. Dies ermöglicht eine nahtlose Integration in bestehende Systeme und Arbeitsabläufe.



### Lange Akkulaufzeit – 15 Stunden

Mit einer Akkuladung sind bis zu 10.000 Scans möglich, was etwa 15 Stunden Betriebszeit entspricht. Dies gewährleistet einen unterbrechungsfreien Betrieb über den gesamten Arbeitstag hinweg.

## Eigenschaften

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**Lesbare Codes:** 1D, 2D, Post

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**Leseabstand:** Standard Range ca. 10 - 60 cm, Mid Range ca. 30 - 140 cm

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**Feedback:** Licht, Ton & Vibration

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**Akku:** bis zu 10 000 Scans

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**Konnektivität:** Bluetooth LE

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**Schutz:** IP 54, bis 2 m sturzsicher

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**Betriebstemperatur:** -20 – 50 °C

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**Abmessungen** (B x L x H): 50 x 45 x 16 mm

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**Gewicht:** 40 g

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## Optionales Zubehör

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**Longlife - Index Trigger**

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**Reel**

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**2-fach Ladestation**

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**10-fach Ladestation**

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**Gateway**

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## WIRELESS COMMUNICATION

### SUB-1-GHZ\*

Sub-1-GHz data transmission is only possible with ProGlove Access Point.

|                    |                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FREQUENCY RANGE    | EU: 863-870 MHz on 70 channels (100 kHz channel spacing)<br>NA: 902-928 MHz on 30 channels (752 kHz channel spacing)                                                                           |
| TRANSMISSION RANGE | <b>ProGlove Access Point</b><br>Free field: >60 m (230 ft)**<br>Indoor: 15-30 m (100-130 ft)**<br><br>**may decrease in industrial environments (e.g. due to walls, metal, shelving, machines) |

\*This product supports AFA (Adaptive Frequency Agility) with LBT (Listen Before Talk): automatic switch to unoccupied frequencies in order to avoid collisions and to ensure secure data transmission.

### BLUETOOTH LOW ENERGY

|                    |                                                                                                                                                                                                                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BLUETOOTH RADIO    | Supports Bluetooth Low Energy 4.0, 4.1, 4.2, 5.0                                                                                                                                                                                                                                              |
| TRANSMISSION RANGE | <b>3<sup>rd</sup> party device</b> <b>ProGlove Gateway</b><br>Free field: 40 m (131 ft)**      Free field: 70 m (230 ft)**<br>Indoor: 10-20 m (33-66 ft)**      Indoor: 30-40 m (100-130 ft)**<br><br>**may decrease in industrial environments (e.g. due to walls, metal shelving, machines) |

## BARCODE DECODING CAPABILITIES

|        |                                                                                             |
|--------|---------------------------------------------------------------------------------------------|
| 1D     | Auto decodes all standard 1D codes including GS1 DataBar linear codes et al.                |
| 2D     | PDF417, MicroPDF417, Data matrix, QR Code, Micro QR Code, Aztec, MaxiCode, et al.           |
| POSTAL | US PostNet, US Planet, UK Postal, Australia Postal, Japan Postal, Dutch Postal (KIX) et al. |

## ELECTRICAL PROPERTIES

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| BATTERY                | 670 mAh, Lithium polymer (rechargeable)                                        |
| CHARGING TIME          | 2 hours with ProGlove Charging Station                                         |
| OPERATING TIME / SCANS | approx. 10.000 scans depending on the application and environmental conditions |

## MECHANICAL PROPERTIES

|            |                                         |
|------------|-----------------------------------------|
| DIMENSIONS | 50 x 45 x 16 mm (1.47 x 1.77 x 0.63 in) |
| WEIGHT     | 40 g (1.41 oz)                          |

## ENVIRONMENTAL CONDITIONS

|                                   |                                                                                                                                                           |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| DROP RESISTANCE                   | Resists 100 drops from 2 m (6.5 ft) onto concrete                                                                                                         |
| TUMBLES                           | 1000 tumbles from 1 m                                                                                                                                     |
| PROTECTION AGAINST DUST AND WATER | IP 54                                                                                                                                                     |
| TEMPERATURE                       | Operating Temperature: -20°C - 50°C (-4°F - 122°F)<br>Charging Temperature: 5°C - 40°C (41°F - 104°F)<br>Storage Temperature: -20°C - 60°C (-4°F - 140°F) |
| HUMIDITY                          | 5% - 95% non condensing                                                                                                                                   |
| ELECTROSTATIC DISCHARGE (ESD)     | ±8kVdc air discharge<br>±4kVdc contact discharge                                                                                                          |

## INTERFACES

|           |                                                       |
|-----------|-------------------------------------------------------|
| BLUETOOTH | HID Profiles                                          |
| ANDROID   | HID, ProGlove Connect (App/SDK)                       |
| IOS       | HID, ProGlove iOS SDK                                 |
| USB       | ProGlove Gateway<br>ProGlove Access Point (HID / CDC) |
| RS232     | ProGlove Access Point                                 |

## SCANNER PROPERTIES

|                       |                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------|
| READING FIELD OF VIEW | Standard range: horizontal: 48°, vertical: 36.7°<br>Mid range: horizontal: 31°, vertical 23° |
| SKEW, PITCH & ROLL    | Skew tolerance: ±60°<br>Pitch tolerance: ±60°<br>Roll tolerance: 360°                        |
| AMBIENT LIGHT         | 0 - 96,900 lux                                                                               |
| AIMER                 | 650 nm, 1 mW                                                                                 |

Minimum distance determined by symbol length, scan-angle and environmental conditions

## STANDARD RANGE

| The smallest symbol in the barcode (the mil-inch (mm) number indicates the size of the smallest function in the barcode) | Possible distance between user and barcode |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 3 mil code 39                                                                                                            | 2.8 in./7.1 cm to 6.2 in./15.8 cm          |
| 5 mil code 128                                                                                                           | 2.3 in./5.8 cm to 8.7 in./22.1 cm          |
| 5 mil code PDF417                                                                                                        | 3.0 in./7.6 cm to 8.1 in./20.6 cm          |
| 10 mil DataMatrix                                                                                                        | 2.4 in./6.1 cm to 10.6 in./26.9 cm         |
| 100% UPCA                                                                                                                | 1.6 in./4.1 cm to 23.0 in./58.4 cm         |
| 20 mil code 39                                                                                                           | 1.6 in./4.1 cm to 36.3 in./92.2 cm         |

## MID RANGE

|                                                                                                                                                  |                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 5 mil (0.127 mm) code 128                                                                                                                        | 7.4 in./18.8 cm to 16.0 in./40.6 cm      |
| 5 mil (0.127 mm) PDF417                                                                                                                          | 8.1 in./20.6 cm to 13.1 in./33.3 cm      |
| 10 mil (0.254 mm) DataMatrix<br>Example: A 10 mil DataMatrix symbol, which can carry 25 alphanumeric characters, has a size of 4.57 mm * 4.57 mm | 7.0 in./17.8 cm to 17.0 in./43.2 cm      |
| 100% UPCA                                                                                                                                        | 2.3 in./5.8 cm to 38.0 in./96.5 cm       |
| 20 mil (0.508 mm) code 39                                                                                                                        | 2.1 in./5.3 cm to 54.0 in./137.2 cm      |
| 100 mil (2.54 mm) code 39                                                                                                                        | 11.0 in./ 27.9 cm to 172.0 in./ 436.9 cm |