

Technical Specification

ProGlove MARK 2 standard range, MARK 2 mid range and Charging Station

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) NA: 902-928 MHz on 30 channels (752 kHz channel spacing)
TRANSMISSION RANGE	Free field: > 60 m (196 ft)** Indoor: 15-30 m (49-98 ft)** **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, 5.1
TRANSMISSION RANGE	Free field: 40 m (131 ft)** Indoor: 10-20 m (33-66 ft)** **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, RSS, Composite, TLC-39, 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 and via power supply: NA: SAW-06D-050-1200GB EU: SYS1561-1105
OPERATING TIME / SCANS	approx. 6000 scans depending on the application and environmental conditions
POWER SUPPLY CHARGING STATION	5 VDC (1.2A) via power supply

MECHANICAL PROPERTIES

DIMENSIONS	Scanner: 50 x 45 x 16 mm (1.47 x 1.77 x 0.63 in) Charging Station: 140 x 56 x 19 mm (5.51 x 2.20 x 0.75 in)
WEIGHT	Scanner: 40 g (1.41 oz) Charging Station: 110 g (3.88 oz)

ENVIRONMENTAL CONDITIONS

DROP RESISTANCE	MARK 2: Resists > 100 drops from 2 m (6.5 ft) onto concrete
PROTECTION AGAINST DUST AND WATER	Scanner: IP54 Charging station: IP20
TEMPERATURE	Operation: 0 - 40°C (32 - 104°F) Storage: -20 - 60°C (-4 - 140°F)

INTERFACES

ACCESS POINT	USB HID (keyboard input on host) USB CDC: RS-232
BLUETOOTH RADIO	HID Profiles, Scanner SDK

SCANNER PROPERTIES

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

UTILITIES & ACCESSORIES

PROGLOVE CONFIGURATION TOOL	https://config.proglove.de Use for MARK 2 barcode, interface, device configuration et al.
SCANNER SDK	ProGlove Connect: Generates a fully featured scanner-application for Android enterprise applications
TRIGGER	Scanner can be triggered only with ProGlove wearables (REEL, Index-Trigger et al.)

SAFETY & REGULATORY

RADIO AND ELECTROMAGNETIC COMPATIBILITY	EU: 2014/53/EU Radio Equipment Directive (RED)
ELECTRICAL SAFETY	EU: acc. to 2014/53/EU Radio Equipment Directive (RED) EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2: 2013 INTERNATIONAL: IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013, IEC 60950-1:2005 US: UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07
LED CLASSIFICATION	Standard Range: Excluded risk group LED product according to IEC/EN 62471
LASER CLASSIFICATION	Mid Range: According to EN 60825-1: 2014 and IEC 60825-1 (Ed. 3.0) Laser class 2 device. Caution Laser Radiation - Do not stare into beam.
ENVIRONMENTAL	Complies with EU-RoHS (2011/65/EU Restriction of Hazardous Substances) CE

SCAN RANGES

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	7.0 in./17.8 cm to 17.0 in./43.2 cm
Example: A 10 mil DataMatrix symbol, which can carry 25 alphanumeric characters, has a size of 4.57 mm * 4.57 mm	
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

WARRANTY

WARRANTY	12-month factory warranty
PROGLOVE CARE	36 month extended guarantee For more information contact ProGlove.

Technical Specification

ProGlove MARK Basic and Charging Station

WIRELESS COMMUNICATION

BLUETOOTH LOW ENERGY

BLUETOOTH RADIO	Supports Bluetooth Low Energy 4.0, 4.1, 4.2, 5.0, 5.1
TRANSMISSION RANGE	Free field: 40 m (131 ft)** Indoor: 10-20 m (33-66 ft)** **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, RSS, Composite, TLC-39, MaxiCode et al.
POSTAL	US PostNet, US Planet, UK Postal, Australia Postal, Japan Postal, Dutch Postal (KIX) et al.

ELECTRICAL PROPERTIES

BATTERY	335 mAh, Lithium polymer (rechargeable)
CHARGING TIME	2 hours with ProGlove Charging Station and via power supply: NA: SAW-06D-050-1200GB EU: SYS1561-1105
OPERATING TIME / SCANS	ca. 3000 scans depending on the application and environmental conditions
POWER SUPPLY CHARGING STATION	5 VDC (1.2A) via power supply

MECHANICAL PROPERTIES

DIMENSIONS	Scanner: 50 x 45 x 16 mm (1.47 x 1.77 x 0.63 in) Charging Station: 140 x 56 x 19 mm (5.51 x 2.20 x 0.75 in)
WEIGHT	Scanner: 40 g (1.41 oz) Charging Station: 110 g (3.88 oz)

ENVIRONMENTAL CONDITIONS

DROP RESISTANCE	MARK Basic: Resists > 50 drops from 2 m (6.5 ft) onto concrete
PROTECTION AGAINST DUST AND WATER	Scanner: IP43 Charging station: IP20
TEMPERATURE	Operation: 0 - 40°C (32 - 104°F) Storage: -20 - 60°C (-4 - 140°F)

INTERFACES

BLUETOOTH RADIO	HID Profiles, Scanner SDK (ProGlove Connect)
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SCANNER PROPERTIES

READING FIELD OF VIEW	Mid Range: horizontal: 31°, vertical 23°
SKEW, PITCH & ROLL	Skew tolerance: ±60° Pitch tolerance: ±60° Roll tolerance: 360°
AMBIENT LIGHT	0 - 96,900 lux
AIMER	650 nm, 1 mW

UTILITIES & ACCESSORIES

PROGLOVE CONFIGURATION TOOL	https://config.proglove.de Use for MARK 2 barcode, interface, device configuration
SCANNER SDK	ProGlove Connect: Generates a fully featured scanner-application for Android enterprise applications
TRIGGER	Scanner can be triggered only with ProGlove wearables (REEL, Index-Trigger et al.)

SAFETY & REGULATORY

RADIO AND ELECTROMAGNETIC COMPATIBILITY	EU: 2014/53/EU Radio Equipment Directive (RED)
ELECTRICAL SAFETY	EU: acc. to 2014/53/EU Radio Equipment Directive (RED) EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2: 2013 INTERNATIONAL: IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013, IEC 60950-1:2005 US: UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07
LASER CLASSIFICATION	Mid Range: According to EN 60825-1: 2014 and IEC 60825-1 (Ed. 3.0) Laser class 2 device. Caution Laser Radiation - Do not stare into beam
ENVIRONMENTAL	Complies with EU-RoHS (2011/65/EU Restriction of Hazardous Substances), CE

SCAN RANGES

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

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 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

WARRANTY

WARRANTY	12-month factory warranty
PROGLOVE CARE	36 month extended guarantee For more information contact ProGlove.

Technical Specification

ProGlove Access Point

WIRELESS COMMUNICATION

SUB-1-GHz*

FREQUENCY RANGE	EU: 863-870 MHz on 70 channels (100 kHz channel spacing) NA: 902-928 MHz on 30 channels (752 kHz channel spacing)
TRANSMISSION RANGE	Free field: > 60 m (196 ft)** Indoor: 15-30 m (49-98 ft)** **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.

CONNECTION OPTIONS

USB	USB HID (Keyboard input on host) USB CDC (Driver available)
RS232	RS-232 Baudrate: 9600, 19200, 38400, 57600, 115.200

MECHANICAL PROPERTIES

DIMENSIONS	138 x 64 x 33 mm (5.43 x 2.52 x 1.30 in)
WEIGHT	Access Point: < 100 g (3.53 oz)

ENVIRONMENTAL CONDITIONS

PROTECTION AGAINST DUST AND WATER	IP22
TEMPERATURE	Operation: 0 - 40°C (32 - 104°F) Storage: -20 - 60°C (-4 - 140°F)

UTILITIES & ACCESSORIES

PROGLOVE CONFIGURATION TOOL	https://config.proglove.de Use for MARK 2 barcode, interface, device configuration
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SAFETY & REGULATORY

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ENVIRONMENTAL	Complies with EU-RoHS (2011/65/EU Restriction of Hazardous Substances) CE

WARRANTY

WARRANTY	12-month factory warranty
PROGLOVE CARE	36 month extended guarantee For more information contact ProGlove.

Technical Specification

ProGlove Standard Glove

MECHANICAL PROPERTIES

VARIANTS	Sizes 7, 8, 9, 10 Version for right-handed and left-handed users
PACKAGES	5 pairs package
WEIGHT	40 g (Size 7, per pair) – 48 g (Size 10, per pair)
MATERIALS	Nylon, Elasthan, Nitril, Latex, EVAC (glue)

SAFETY & REGULATORY

PROTECTION	EN420; EN388 Classification 2131 Abrasion resistance: Class 2 Cut resistance: Class 1 Tear resistance: Class 3 Puncture resistance: class 1
ENVIRONMENTAL	Complies with EU-RoHS (2011/65/EU Restriction of Hazardous Substances) WEEE CE

ProGlove Index Trigger

MECHANICAL PROPERTIES

VARIANTS	Sizes S, M, L Version for right-handed and left-handed users
PACKAGES	3 pieces package 10 pieces package
WEIGHT	20 g (Size M, per piece)
MATERIALS	Nylon, Polyester, MDF, EVAC (glue)

SAFETY & REGULATORY

ENVIRONMENTAL	Complies with EU-RoHS (2011/65/EU Restriction of Hazardous Substances) WEEE CE
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ProGlove Palm Trigger

MECHANICAL PROPERTIES

VARIANTS	Sizes S, M, L Version for right-handed and left-handed users
PACKAGES	3 pieces package 10 pieces package
WEIGHT	22 g (Size M, per piece)
MATERIALS	Nylon, Polyester, MDF, EVAC (glue)

SAFETY & REGULATORY

ENVIRONMENTAL	Complies with EU-RoHS (2011/65/EU Restriction of Hazardous Substances) WEEE CE
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ProGlove Reel

PACKAGES	2 pieces package
WEIGHT	32 g (per piece)
ACCESSORIES	Lanyard
MATERIALS	Nylon, Teflon, Aramid cord, EVAC (glue), Magnet, Spring steel
DIMENSIONS	74 x 47 x 20 mm (2,9 x 1,9 x 0,8 in)

SAFETY & REGULATORY

ENVIRONMENTAL	Complies with EU-RoHS (2011/65/EU Restriction of Hazardous Substances) WEEE CE
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