# M-10 Quick Start Guide

#### Introduction

- The M-10 is an omnidirectional presentation imager scanner that can read 1D and 2D codes just by holding a label in front of the scanner.
- Read this quick start guide carefully before installing and/or using this product.
- Keep this quick start guide for future reference and store in a safe place.

#### **Notice**

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## Caution and Warning (Refer to the specification manual and instruction guide for details)

#### 1. LED light

- Do not stare into the LED light from the scan window. It may damage your eyes.
- 2. Handling
- · Do not disassemble this product.
- Do not put heavy items on and apply any shock to the product.
- · Do not use this product near combustible materials. It may result in rupture and ignition of it.
- · Do not swing the product around by the cable. It may cause injury, an accident, and damage to the
- Keep the product out of the reach of small children.
- · Do not insert foreign substances into this product.
- · Do not use this product in any environment where serious damage is considered to occur.
- · Do not use this product near water or other liquids.
- Do not store this product in dusty environments and in extremely high humidity.
- · If perchance condensation formed on the product, abstain from the use of it until moisture has evaporated to prevent malfunctions.
- Avoid static electricity and do not put the product near a radio or a TV. Excessive static electricity may cause malfunctions.
- Do not store this device in an extremely cold or hot environment and in areas exposed to direct sunlight for long periods of time.
- Do not place this product on an unstable place.
- · When cleaning this product, rub gently with either a soft dry cloth or a damp cloth with mild detergent.

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## What's in the Box

Confirm that you have the following items before getting started. Please contact the nearest dealer if items are damaged or missing.

#### ■ USB-HID Keyboard / USB-COM Interface

1	No.	Item	Model	Function
	1	Scanner	M-10	Omnidirectional presentation imager scanner
	2	USB cable	-	Dedicated USB cable (2 m) for the M-10
	3	Quick Start Guide	-	Provides brief instructions on how to use and configure the M-10

## ■ RS-232C Interface

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No. Item Model		Model	Function			
	1	Scanner	M-10	Omnidirectional presentation imager scanner		
ſ	2	RS-232C cable	-	Dedicated RS-232C cable (2 m) for the M-10		
ſ	3	AC adapter	-	AC adapter with interchangeable plugs		
ſ	4	Quick Start Guide		Provides brief instructions on how to use and configure the M-10		

## **Detailed View**

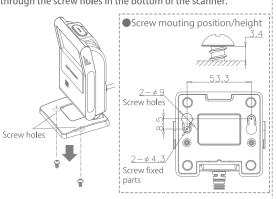
## ■ Detailed View



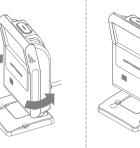
1	Scan Window	A window to which codes are presented		
	Trigger Switch	A trigger switch to read codes for use as a handheld scanner		
2	Indicator LED	Light blue: Indicates the scanner being in standby state.  Bright blue: indicates a successful read of codes		
3	Buzzer Holes	A hole through where a sound comes out from a built-in buzzer.		
4	Stand	Stands to adjust the angle of the scanner. Adjustable range: Forward:60°Backward: 15°		

## ■ How to Fix the Scanner

Mount the screws in your desired location and put them through the screw holes in the bottom of the scanner.







STEP-3

Scanner is now fixed.

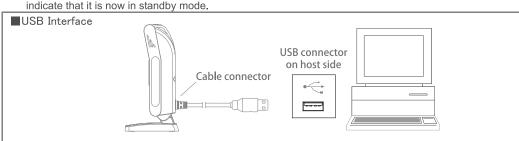
\* In case there is a screw loose, adjust the screw height.

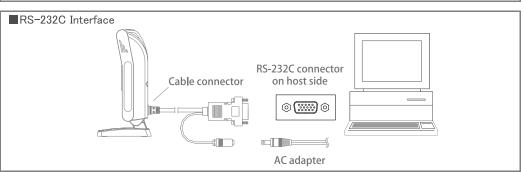
## **Connection and Operation Check**

- Connect the interface cable to the scanner
- Firmly insert the connector of the interface cable into the jack on the scanner in the correct direction.
- Press a pin whole in the lower part of the scanner to remove the cable.

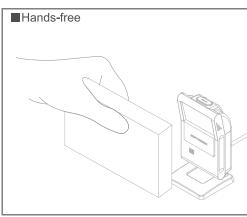
#### Connect to the Host

Connect the connector of the interface cable to the appropriate connector on the host side. When it is connected, the startup buzzer will sound and the light blue LED at the top of the scanner will light up to

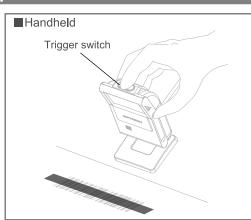




## Basic Operation



 Present a code in front of the scan window (within approx. 150 mm) for the scanner to start reading automatically. If the scanner does not read the code smoothly, move and adjust the position of



- When reading a specific code with the handheld scanner, follow the steps below:
- 1) Press the trigger switch once, then a green single aiming line lights up (for 3 sec by default).
- 2 Position the single aiming line over the code and press the trigger switch again to start reading.

## **Basic Specifications**

## Basic Specifications

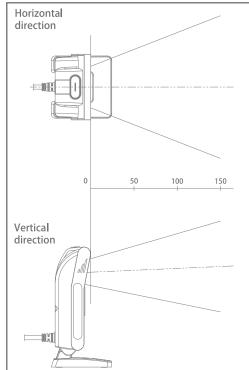
USB	USB2.0 Full-Speed (HID/COM)		
RS-232C	300bps to 115200bps (default 9600 bps)		
Scanner Section			
Scan Method	Area image sensor (monochrome)		
Scanning Light Source	Red LED		
Aiming/Detecting Light Source	Green single line LED		
Indicator	Blue LED, Buzzer		
Field of View (from the front edge of the scanner)	0 mm :Approx. 48 x 31 mm 50 mm :Approx. 85 x 54 mm 100 mm :Approx. 122 x 78 mm 150 mm :Approx. 165 x 105 mm		
Supported Symbologies (1D)	UPC-A, UPC-E, UPC-E1, UPC-A Add-on, UPC-E, Add-on, EAN-13, EAN-8, EAN-13, Add-on/EAN-8, Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, NW-7, Industrial 2 of 5, Interleaved 2 of 5, Code 93, Code 128, GS1-128, G-Code, MSI/Plessey, UK/Plessey, TELEPEN, Matrix 2 of 5, Chinese Post Matrix 2 of 5, IATA, Code 11, GS1-Databar		
Supported Symbologies (Postal)	Japanese Postal, Intelligent Mail Barcode, POSTNET, PLANET, Netherlands KIX Code, UK Postal, Australian Postal, Korean Postal Authority code		
Supported Symbologies (2D)	GS1 Composite code, PDF-417, MicroPDF-417, QR Code, MicroQR Code, Data Matrix, Maxi Code, Aztec Code, Codabbock F, Chinese-sensible code		
Min. Resolution	1D code :0.127 mm PDF-417 :0.169 mm QR Code :0.169 mm Data Matrix :0.212 mm		
PCS	30% or higher		
B 1.004			

Durability			
Operating Temp.	0 to 40°C		
Storage Temp.	-40 to70°C		
Humidity	5 to 90%		
Ambient Light Immunity	Fluorescent (indoor) :Max 10,000 L Sunlight :Max 10,0000		
Shock Endurance	1.5 m		
Dust & Drip Proof	IP 52		
Static Electricity	Electricity 15 kV (no destruction)		

Power Section				
Operating Voltage	4.5~6.6V			
Current Consumption (at 5.0 V)	Peak Average Standby Sleep	:420 mA :250 mA (Typ) :150 mA (Typ) :110 mA (Typ)		
Planning I Frankrick				

Physical Featu	Physical Features		
Dimensions	(H) 140 x (W) 70 x (D) 76 mm		
Weight	Approx. 250 g		
Cable Length	Approx. 2.0 m		
Case Color	Black or White		
Case Material	Antimicrobial ( White model only)		

## Scan Area and Depth of Field



Depth of Field				
Code	Resolution(mm)	Distance (mm)		
Code 39	0.127	35 ~ 60		
Code 128	0.2	0 ~ 120		
UPC/EAN	0.33	0 ~ 170		
PDF-417	0.254	0 ~ 120		
QR Code	0.381	0 ~ 120		
Data Matrix	0.254	30 ~ 80		

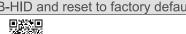
Specific code test samples are used for the DOF measuremen

## **Default Settings**

## USB-HID Keyboard Interface



Make sure the USB cable is connected to the scanner when using the USB-HID keyboard interface. Change interface to USB-HID and reset to factory default



#### 「Basic Settings」

「Keyboard language	J		
回次回 2000 回次及	USA	回 2 回 2 0 7 8	Swedish
UK	回於日 200 日本 200 日本	Finnish	
回次 B 2 第 2 8 8 8 8	German	<b>三</b> 2 2 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	Danish
French	回於日 吳本 (2) (2) (2)	Norwegian	
□ <b>(</b> )	Italian	是交易 自然使	Czech
Spanish	回公司 7.66 (2) 回公安	Russian Cyrillic	□ 25 E
日 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Portuguese	95 <u>9</u>	Chinese Simplified
Swiss(French)		Chinese Traditional	
<b>日本日</b> 第一条 日本条	Swiss(German)		Korean
Dutch	回於日 36 日28 日28 日	Japanese	0 X X
回該回			

#### ·USB-COM Interface

#### 「Default」

Make sure the USB cable is connected to the scanner when using the USB-COM interface

Change interface to USB-COM and reset to factory default

Belgian

## -RS-232C Interface

## 「Default」

Make sure the RS-232C cable with D-SUB connector is connected to the scanner when using the RS-232C interface.



## **Basic Operation Settings**

## -Read Options

## [Multiple Read Reset Time]

Set the time interval to prevent reading of the same code.





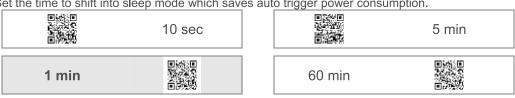
## 「Auto Trigger Detection Sensitivity」

Set the detection sensitivity for auto trigger. Low Middle

High

## Transition Time to Sleep Mode

Set the time to shift into sleep mode which saves auto trigger power consumption.



## [Read Time Adjustment]

Adjust the time to end the auto trigger scanning.





#### **TAiming Time with Trigger Switch**

Set the time of green single line aiming lighting up per a single press of the trigger switch.



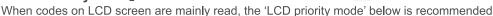
## -Enable / Disable QR code

## [Enable / Disable OP code Posding I

Enable / Disable QR code Reading]				
SET				
Enable QR code				
Disable QR code				
END				

## Settings for Label Media

## **[LCD-Priority Read]**



JUS OII EC	JD 3010011 are mainly read, ti	IC LOL	priority mode	below is recommended.
	Paper priority mode		■25 33 12 12 12 12 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	LCD priority mode

#### Indicator

#### [Buzzer Loudness]

Set the buzzer loudness





al	Maximum 100%

#### [Buzzer Duration]

Set the good read buzzer duration

	50 msec
75 msec	回》回 2 2 3 3 4 3



## **FBuzzer Tone**

Set the good read buzzer tone.				
Low 1000 Hz				
Middle 2650 Hz				

国际学国 <b>X</b>	Middle-high 3000 Hz
High 3500 Hz	国 (公公田 元 (本) (公公 元 (本) (公公 五 (公 五 (
	2-tone High → Low

回び機可

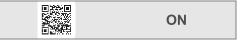
## [Enable/Disable Startup buzzer]

Set whether to activate a single buzzer after the scanner is supplied with power.

ON	OFF	

## 

Set whether to activate the intermediate buzzer that sounds during simultaneous reading of multiple codes, such as concatenated codes.





## 「Good Read LED duration」

Set the lighting time for the good read LED indicator

200 ms	回次(B) (B) (B)	400 ms

## Contact

Please contact OPTICON or your local dealer.

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 $More product details, additional support, and configuration options (from the Universal Menu Book) are available at {\color{red} www.opticon.com} and {\color{gray} www.opticon.com} are available at {\color{gray} www.opticon.com} and {\color{gray} www.opticon.com} are available at {\color{gray} www.opticon$ 

<sup>\*</sup> USB-COM driver must be installed for the use of USB-COM.

<sup>\*</sup> The middle (2600 Hz) is the most resonant tone.