EOPTICON

Quick Start Guide

Introduction

- The M-11 is an on/in-counter 2D imager scanner, that can read 1D codes, 2D codes and OCR.
- Read this quick start guide carefully before installing and/or using this product.
- Keep this guick start guide for future reference and store in a safe place.

Notice

- The information in this quick start guide is subject to change without notice.
- This quick start guide may not, in whole or in part, be copied, photocopied, reproduced, translated or converted to any electronic or machine readable form without prior written consent of Opticon.
- Trademarks used are property of their respective owners.
- Opticon assumes no responsibility whatsoever for any direct or indirect damages arising from reliance on any information contained in this quick start guide.

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 the product or apply any shock to it.
- · Do not use this product near combustible materials.
- Do not swing the product around by the cable. It may cause injury or damage to the device.
- In case the core wire expose or breakage occurs in the interface cable, please contact the dealer. Using it as it is may cause malfunction or smoke.
- · In case any abnormality occurs in the scanner, unplug the interface cable and the AC adapter connecter and contact the dealer.
- · Do not use in environments where serious damage are concerned.
- · 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 use or store this product in dusty and/or humid environments, nor extremely cold or hot places. Also avoid exposure to direct sunlight for long periods of time.
- Do not place in an unstable place.

Copyright © 2018 OPTICON. All rights reserved.

What's in the Box

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

□ USB-HID Keyboard / USB-COM Interface

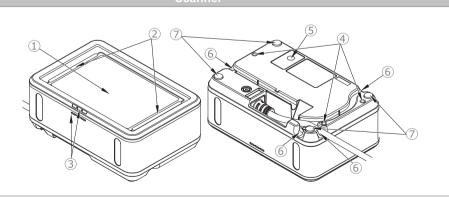
– 03	03B-FID Reyboard / 03B-COM Interface		
No.	o. Item Model		Function
1	1 Scanner M-11		On-counter 2D imager scanner (2.0m cable attached)
2 Adhesive gel feet - Adhes		-	Adhesive gel feet to be used for vertical orientation mounting.
3	Quick Start Guide	-	Provides brief instructions on how to use and configure the M-11.

☐ RS-232C Interface

No.	Item	Model	Function
1	Scanner	M-11	On-counter 2D imager scanner (2.0m cable attached)
2	Adhesive gel feet	-	Adhesive gel feet to be used for vertical orientation mounting.
3	AC Adapter	-	AC adapter with interchangeable plugs
4	Quick Start Guide	-	Provides brief instructions on how to use and configure the M-11.

Detailed View

■ Detailed View

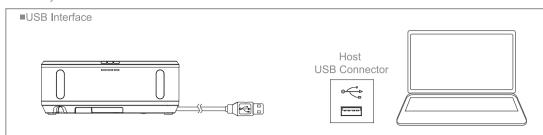


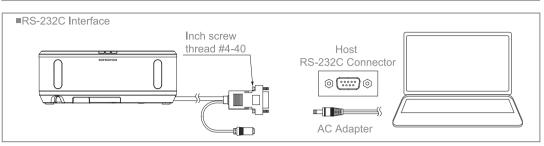
No.	Name	Description	
1	Scan Window	Light path of the imager, LED illumination and aiming. Ensure that it is free from dust and dirt before scanning. When cleaning this product, rub gently with either a soft dry cloth or a damp cloth with mild detergent.	
2	Status LED	This LED shows the operating status of the scanner. Various lighting color can also be set.	
3	Speaker Holes	Sound from the built-in speaker comes out through these holes.	
4	Mounting Holes	Screw holes that can be used to mount the scanner. Screw holes (3 places) M3×L6 0.63[N·m]	
(5)	Function Key	Loudness and sound frequency can be changed by the function key operation. It also can be set as invalid or mode change key by setting.	
6	Cable Outlet	Cable outlet can be selected from 4 direction depending on install condition.	
7	Rubber Feet	Rubber feet to prevent slipping. DO NOT remove! Removal of feet may cause the function key to be pressed and cause unwanted operation.	

Connection and Operation Check

Connect to the Host

Connect the interface cable to the appropriate connector on the host side as shown below. When connected, the startup speaker will sound and the status LED at the top of the scanner will light up to indicate that it is now ready to scan.





Basic Operation

M-11 has two basic mod	des and its usage are described b	elow.
Operation mode name	Ha	ands-free mode (default)
Mode description	The mode to read instantly by hol	ding a printed 1D code or 2D code like on products.
Menu label		
Operation diagram		
Install condition and gel feet affixing locations	Fix reading direction and install di Attach the gel feet according to the Speaker h	Gel feet package Speaker holes
Prioritize for p	printed codes (default)	Enable printed and screen reading
Default hands-free mod	de prior reading on the paper.	To read code on the screen with hands-free mode, set following.
		₽% %₽

☐ Screen priority mode		
Operation mode name	Screen priority mode	
Mode description	This mode is most suitable to read 2D code or 1D code displayed on the screen like smartphones. Code on the paper can also be read, but motion tolerance is not supported. Normal LED illumination is disabled and only the status indicator LED is used in this mode.	
Menu label		
Operation diagram		

Cleaning the Scan Window

If the scan window gets dirty, it may affect reading performance. Rub gently with either a soft dry cloth or a damp cloth with mild detergent.



Function Key Operation

Loudness and sound frequency can be changed by the function key operation. It also can be set as invalid or mode change key by setting.

Key operation	Setting	Operation
Press till 2 seconds	Loudness	Change as Maximum/Loud/Normal/Minimum
Press 2 seconds or more Sound frequency		Change in sound frequency 4 pattern









Code Read Option

When reading of 2D codes are not wanted, then scan to disable. Scan the enable code to restore 2D code reading capability.





Default Setting

■ USB-HID keyboard interface default

Make sure the USB cable is connected to the scanner when using the USB-HID keyboard interface.





■ Basic setting for USB-HID Keyboard Interface [Suffix setting]

Set whether or not to add an "Enter Key" to the end of the output data.





■ USB-COM interface default

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





- * USB-COM driver must be installed for the use of USB-COM.
- * For OPOS driver, please contact sales offices.

■ RS-232C interface default

Read the below menu code with the USB cable still connected and then change to an RS-232C cable. If there only is an RS-232C cable, then keep the function key pressed while powering up and hold it pressed for at least 10 seconds. Then the menu code can be read. Make sure the RS-232C cable with D-SUB connector is connected to the scanner when using the RS-232C interface.

Change interface to RS-232C and reset to factory default

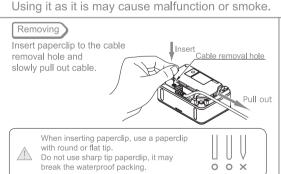




Exchange Cable

Removing cable

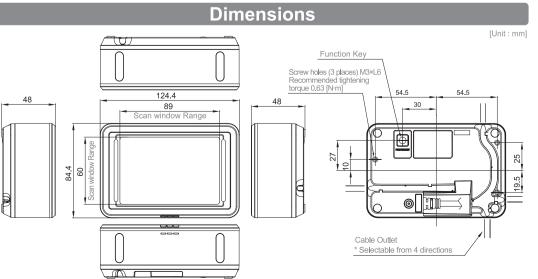
* In case the core wire expose or breakage occurs in the interface cable, please contact the dealer.



Attaching Hold the root of the plug so that plug's clip are on outside, and insert the cable slowly until it clicks. Scanner side (without clip) Cutside (with clip)







Basic Product Specifications

Interface			
Interface	USB (HID/COM), RS-232C		
Input voltage	4.5~5.5V		
Cable	2.0m straight standard (removable)		
Connector	USB : USB-APlug RS-232C : D-sub 9pin female		
Enclosed item	AC adapter (For RS-232C)		

Optical Speci	fications		
Scan method	Monochrome CMOS area sensor		
Pixels	1280 x 800		
Frame Rate	120fps (Max)		
Light source	Warm white LED		
Scan window	Pencil hardness: 6H to 7H Mohs hardness: 4 equivalent	Code 39	
Operating indicators	Side bars 3 colors LEDs × 2, Speaker		
Supported symbologies (1D barcode)	JAN-13/8 EAN-13/8, EAN-13 Add-on/EAN-8 Add-on, UPC-A/E, UPC-A Add-on , UPC-E Add-on, Code 39, Code 128, NW-7 (Codabar), Industrial 2 of 5, Interleaved 2 of 5, Code 93, MSI/Plessey, GS1-128	ı , UPC-E Add-on, W-7 (Codabar), ed 2 of 5, Code 93,	
Supported symbologies (2D code)	PDF417, MicroPDF417, GS1 Composite, Codablock F, QR code , Micro QR Code, Data Matrix (ECC 200), Maxi Code, Aztec Code, Chinese Sensible Code		
OCR	Machine readable Travel documents (Passport), OCR-font A/B	1D	
Minimum resolution	1D barcode : 0.1mm 2D code : 0.169mm		_
PCS	0.3 or more		-
Reading angle	Pitch: ±60° /Skew: ±70° Tilt: 360°	_ 2D	
Motion Tolerance	2.54m/s (0.33mm EAN/UPC @100mm)	* Depth is t	ty

	(29 ← 0.169mm → 99					
-	QR Co	de	0.381mm	<u> </u>	221	
		Code	Resolution(mm)	Near(mm)	Far(mm)	
-		Code39	0.127	19	111	
-	1D	EAN/UPC	0.26	0	240	
		EAN/UPC	0.33	0	285	
	2D	QR Code	0.169	29	99	
		QR Code	0.381	0	221	

20 25

25

20

75

100 125

[Unit: mm]

* Depth is typical value measured at ambient temperature 25°C

[Unit : mm]

Reading reference position

10mm from the front edge of the scanner

Reading reference distance

Scan area

78 x 54 mm

Operation Temperature/Humidity	-5 to 45°C/10 to 90%RH (no condensation, no frost)	
Storage Temperature/Humidity	-30 to 60°C/10 to 90%RH (no condensation, no frost)	
Ambient light immunity	Sunlight : 100,000 lx or less Incandescent light : 10,000 lx or less	
Drop test	1.5m (concrete floor) Drop the scanner 18 times (6 faces x 3)	
Anti-microbial	ISO 22196 equivalent (White model only)	
Protection rate	IP42 equivalent	

Physical	
Weight	Approx. 220g (Excluding cable)
Dimensions	84.4(D) × 124.4(W) × 48(H) mm
Housing color	Black model or white model

Regulatory & Safety				
RoHS	RoHS directive			
REACH	REACH regulation			
WEEE	WEEE directive			

VVEEE	VVEEE directive	
LED Safety	IEC 62471:2006 Exempt risk group	
EMI/RFI	VCCI/EN55032/FCC Class B / EN55032 EN55024 Class B (For residential, commercial and light-industry environments)	

* Refer to the specification manual and instruction guide for details

- * The contents of this document are subject to change without prior notice.

 * The values listed are based on measuring method specified by OPTOELECTRONICS. For guaranteed values, please refer to the specifications.

 * QR code is a registered trademark of DENSO WAVE INCORPORATED.

Select the Opticon office

<u> </u>					
The Netherlands	Opticon Sensors Europe B.V. Opaallaan 35, 2132XV, Hoofddorp tel: +31 (0)23 - 5692700 email: sales@opticon.com	Australia	Opticon Sensors Pty. Ltd. tel: +61 (0)2 - 88754544 email: sales.au@opticon.com		
France	Opticon S.A.S.U. tel: +33 (0)1 - 55 90 56 40 email: sales.fr@opticon.com	China	Opticon Trading Shanghai Co., Ltd. tel: +86 - 21 - 55500321 email: china@opticon.com		
Germany	Opticon Sensoren GmbH tel: +49 (0)6074 - 9189000 email: sales.de@opticon.com	Vietnam	Opticon Vietnam LLC tel: +84 8 222 88 262 email: sales.vn@opticon.com		
United Kingdom	Opticon Limited tel: +44 (0)1582 - 433763 email: uksales@opticon.com	Denmark	Opticon Danmark ApS tel: +45 (0)44 220102		
Italy	Opticon s.r.l. tel: +39 051 - 6321800 email: sales-it@opticon.com	Spain	Opticon - Spain tel: +34 914 167 794 email: sales.es@opticon.com		
Sweden	Opticon Sensors Nordic AB tel: +46 (0)8 - 58548560 email: sales.se@opticon.com	Taiwan	Opticon Sensors Europe B.V. Taiwan Branch tel: +886 2 - 27597444 email: taiwan@opticon.com		
USA	Opticon Inc. tel: 800 636 - 0090 email: sales@opticonusa.com	Philippines	Opticon Sensors Philippines Inc. tel: +632 801 2176 email: sales.ph@opticon.com		
Brazil	Opticon Latin America tel: +55 11 - 5081 2088 email: sales.la@opticon.com				