Specifications

ID TOOLS

1D Codes	UPC/EAN/JAN, Codabar, Interleaved 2 of 5, Code 39, Code 128, and Code 93, PostNet, Planet Code, Australia 4-State, Japan 4-State, UPU 4-State, USPS Intelligent Mail Bar Code, Pharma Code, Reduced Space Symbology (RSS)
2D Codes	
Model 100X	Data Matrix ECC 0, 50, 80, 100, 140, and 200
Model 100Q	Data Matrix ECC200
Models 100Q/100X	QR Code and microQR Code, Composite Symbology (CC-A, CC-B), PDF417, MicroPDF

VERIFIER METRICS

Quality standards	AIM DPM Guidelines, ISO15415, AS9132

IMAGE

Sensor	1/3-inch CMOS w/Global shutter (752 x 480 resolution)
Acquisition	Max rate 60 fps
Lens type	3 position adjustable lens (6.2 mm; F:5 aperture) with 40mm, 65mm and 105mm working distances

I/O

Trigger	High-speed trigger input, manual trigger button
Trigger voltage	-25VDC to +25VDC
Trigger current	7.7mA @ 24VDC 3.7mA @ 12VDC 1.33mA @ 5VDC
Trigger delay	1ms (max)
Discrete inputs	2 opto-isolated (one used as trigger)
Discrete outputs	2 opto-isolated
Status LEDs	2 status LEDs (Read LED and communication LED)
Beeper	Programmable functions

LIGHTING

Lighting methods	Integrated bright field lighting with exposure control

COMMUNICATIONS

Serial	RS-232
USB	Supports USB 1.1 and 2.0 compatible (Maximum speed 12Mbits/sec.)

POWER

Operating Voltage	5VDC to 24VDC
Power consumption	500mA @5VDC max (peak) Avg: 300mA @5VDC

MECHANICAL

Material	Aluminum housing
Mounting	2 M3 x 3.5 mounting holes
Dimensions	55mm x 42mm x 22mm (2.17in x 1.65in x .87in)
Weight	125g (.28lb)

ENVIRONMENTAL

Operating temperature	0ºC to 40ºC (32ºF to 104ºF)
Operating humidity	95% (non-condensing)
Storage temperature	-10ºC to 60ºC (-14ºF to140ºF)
Storage humidity	95% (non-condensing)
Protection	IP-65
Vibration	EN61373, including IEC 60068-2-6,60068-2-64 6.4, and 60068-2-27

CERTIFICATIONS

Approvals	CE, UL, FCC, CSA, CTICK, VCCI, IC

DATAMAN 100 ID READERS

Description	Part Number
DataMan 100Q	DMR-100Q-00
DataMan 100X	DMR-100X-00
DataMan 100V	DMR-100V-00

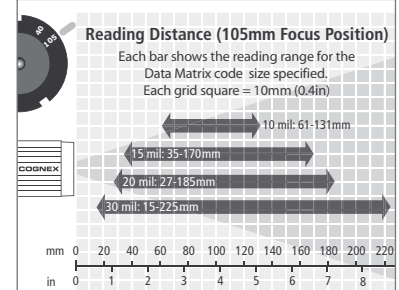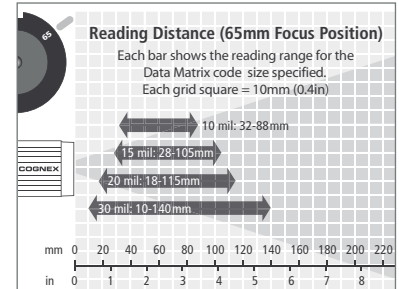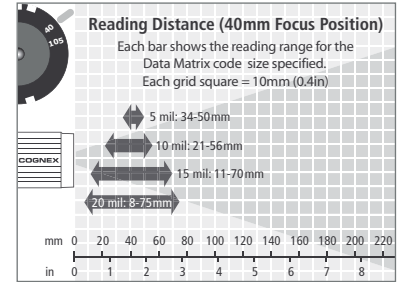## DATAMAN 100 ACCESSORIES

Description	Part Number
Basic Accessory Kit	
(Includes the following items)	DM100-BAK-000
USB adapter cable with power tap	DM100-USB-000
Universal mounting bracket	DM100-UBRK-000
Setup tool and drivers (CD)	206-6400-220
Quick Reference Guide	590-7013

Additional Accessories

ESD-safe red lens cover	DM100-RLC-000
SHD lens kit	DM100-SHD-000
C-Mount lens adapter	DM100-CMNT-000
DPM reading light	DM100-DPML-000

Additional Accessories (Continued)

DM100 expanded I/O module	DM100-1400-000
Basic I/O Module	DM100-IOBOX-000
Extension cable, 5 meter (15ft)	DM100-EXTCBL-000
RS-232 adapter cable with power tap	DM100-RS232-000
Power supply (USB and RS-232)	DM100-PWR-000

Reading Distance (40mm Focus Position)
Each bar shows the reading range for the Data Matrix code size specified.
Each grid square = 10mm (0.4in)

5 mil: 34-50mm
10 mil: 21-56mm
15 mil: 11-70mm
20 mil: 8-75mm

Reading Distance (65mm Focus Position)
Each bar shows the reading range for the Data Matrix code size specified.
Each grid square = 10mm (0.4in)

10 mil: 32-88mm
15 mil: 28-105mm
20 mil: 18-115mm
30 mil: 10-140mm

Reading Distance (105mm Focus Position)
Each bar shows the reading range for the Data Matrix code size specified.
Each grid square = 10mm (0.4in)

10 mil: 61-131mm
15 mil: 35-170mm
20 mil: 27-185mm
30 mil: 15-225mm

Visit www.cognex.com/dataman for additional product information