

## DataMan<sup>®</sup> 260 Series Reference Manual



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# Symbols


The following symbols indicate safety precautions and supplemental information:

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 **WARNING:** This symbol indicates a hazard that could cause death, serious personal injury or electrical shock.


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 **CAUTION:** This symbol indicates a hazard that could result in property damage.


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 **Note:** This symbol indicates additional information about a subject.

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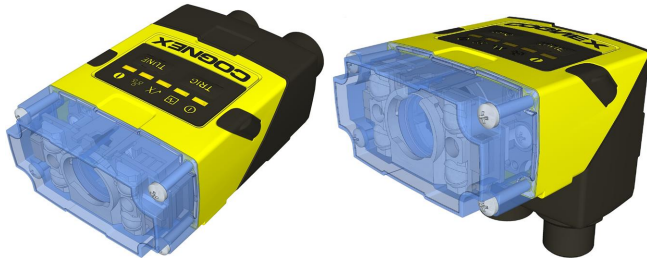
 **Tip:** This symbol indicates suggestions and shortcuts that might not otherwise be apparent.

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# Getting Started

This section provides general information about the DataMan 260 series readers as well as about the DataMan 260 accessories and systems.

## About DataMan 260



The DataMan 260 readers are best in class ID readers, offering superior performance with the latest ID tools, flexibility to configure the reader in terms of lighting and optics to optimize the application, and an ease-of-use giving the user the ability to setup and deploy an application quickly and efficiently all without the need for PC:

- Superior performance, 1-D and 2-D code reading, including HotBars2™ and patent-pending PowerGrid™
- Flexible optics/lighting, including field upgrades, allowing for the protection of your investment
- Ease-of-use, including an auto-tune and trigger button on the reader, the ability to configure the reader in a straight or right-angle orientation and auto-focus capability utilizing a liquid lens

The DataMan 260 readers provide support for Ethernet and RS-232 communications.

Key highlights:

- 1DMax with HotBars2™, best in class 1-D reading, 2DMax with PowerGrid™, best in class 2-D reading. Reading codes no other ID reader on the market can.
- Multiple options for LED lighting, along with optical filters and polarizing filters. Options for different powered lens, with autofocus capabilities for each.

## Configuration

This document provides basic information about how to configure and use DataMan 260 readers. Additional information is available through the Windows **Start** menu or the DataMan Setup Tool **Help** menu after you install the DataMan software on your PC:

- The **DataMan Communications and Programming Guide** shows you how to integrate your DataMan reader into your particular automation and factory environment.

Cognex->DataMan Software v x.x.x->Documentation->Communications->DataMan Communications and Programming Guide

- The **DataMan Industrial Protocols Manual** provides information on how to integrate DataMan readers into your particular environment using industrial protocols.

Cognex->DataMan Software v x.x.x->Documentation->Communications->DataMan Industrial Protocols Manual

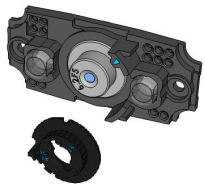
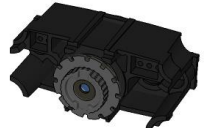

- The **DataMan Reader Configuration Codes** document provides printable 2-D codes that you can use to configure the DataMan reader.

Cognex->DataMan Software v x.x.x->Documentation->English->Reader Configuration Codes

- The **DM260 Quick Reference Guide** provides essential information about the DM260 readers.  
Cognex->DataMan Software v x.x.x->Documentation->English->DM260 Series->DM260 Quick Reference Guide
- The **DataMan Fixed-Mount Readers Reference** is a complete online hardware reference for the DataMan fixed-mount ID readers.  
Cognex->DataMan Software v x.x.x->Documentation->English->DM260 ->Fixed-Mount Reference Manual
- The **DataMan Questions and Answers** document provides context-sensitive information. You can view this help inside the DataMan Setup Tool or as a stand-alone help file.  
Cognex->DataMan Software v x.x.x->Documentation->DM260->Questions and Answers
- The **DataMan Control Commands** lists DataMan Control Commands with all relevant information. You can view this help inside the Setup Tool or as a stand-alone help file.  
Cognex->DataMan Software v x.x.x->Documentation->English->DataMan Control Commands
- The **Setup Tool Reference Manual** describes the user interface of the DataMan Setup Tool software.  
Cognex->DataMan Software v x.x.x->Documentation->English->Setup Tool Reference Manual
- The **Release Notes** list detailed system requirements and additional information about this DataMan software release.  
Cognex->DataMan Software v x.x.x->Documentation->DataMan v x.x.x Release Notes

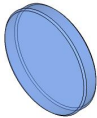
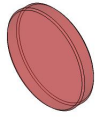
## DataMan 260 Accessories

### Lens Options

<p>6.2 mm lens kit (DM150-LENS-62)</p> <ul style="list-style-type: none"> <li>• 6.2 mm optics mount</li> <li>• 6.2 mm lens</li> <li>• manual lens cap (assembled)</li> <li>• screws</li> </ul>	
<p>16 mm lens with extended optics mount (requires the use of an extended front cover and high-powered red LED) (DM260-LENS-16)</p> <ul style="list-style-type: none"> <li>• 16 mm optics mount</li> <li>• 16 mm lens</li> <li>• manual lens cap (assembled)</li> <li>• screws</li> </ul>	
<p>IR 6.2 mm lens kit, 3-position with IR LED (DMA-KIT-IR-62)</p> <ul style="list-style-type: none"> <li>• 6.2 mm optics mount</li> <li>• 6.2 mm lens (IR)</li> <li>• Standard Infrared Light for 6.2mm (Risk Group Exempt acc. IEC62471)</li> <li>• manual lens cap (not assembled)</li> <li>• screws</li> </ul>	

<p>UV Light Kit for 6.2 mm lens (DMA-KIT-UV365-62)</p> <ul style="list-style-type: none"> <li>• UV light board (365nm wavelength)</li> <li>• UV resistant front cover</li> <li>• screws</li> </ul>	
<p>IR 16 mm lens kit (DMA-KIT-IR-16)</p> <ul style="list-style-type: none"> <li>• 16 mm optics mount</li> <li>• 16 mm lens (IR)</li> <li>• Standard Infrared Light for 16mm (Risk Group Exempt acc. IEC62471)</li> <li>• manual lens cap (assembled)</li> <li>• screws</li> </ul>	
<p>Liquid Lens Module (LLM) to be used with 6.2 mm lens or 16 mm lens (DMA-LLM-150-260)</p>	
<p>16 mm lens with ImageMax kit (DM260-KIT-16LL)</p> <ul style="list-style-type: none"> <li>• 16 mm optics mount</li> <li>• 16 mm lens</li> <li>• Liquid Lens Module (DMA-LLM-150-260)</li> <li>• High Powered red LED illumination (DM260-LED-RED-HP) (Risk Group Exempt acc. IEC62471)</li> <li>• 2-LED half-polarized extended cover (DM260-LENS-16CVR-P) (Risk Group Exempt acc. IEC62471)</li> </ul>	

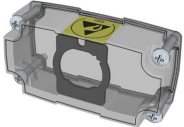




## Filters

<p>Blue bandpass filter (DM150-BP470)</p>	
<p>Red bandpass filter (DM150-BP635)</p>	

## Lens Covers

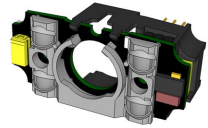
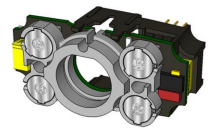
<p>Clear lens cover (DM150-CVR-CLR)*</p>	
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Clear lens cover, ESD safe (DM150-CVR-ESD)*	
Polarized front cover (DM260-LENS-62CVR-F)*	
Extended lens cover, un-polarized (DM260-LENS-16CVR)**	
Extended lens cover, half-polarized (DM260-LENS-16CVR-P)**	
Extended lens cover, fully polarized (DM260-LENS-16CVR-F)**	
C-mount adaptor, IP40 (DM260-CMNT-00)	
C-mount adaptor, IP65 (DM260-CMNT-CVR)	


**Note:** \*Use with a 6.2 mm lens only!  
**\*\*Use with a 16 mm lens only!** For maximum light power 24VDC supply is recommended.


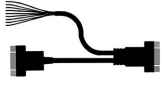
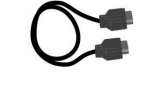

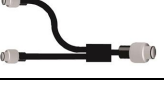

## Light Options

Red LED illumination (DM150-LED-RED)* Risk Group Exempt acc. IEC62471	
White LED illumination (DM150-LED-WHT) * Risk Group Exempt acc. IEC62471	
Blue LED illumination (DM150-LED-BLU)* Risk Group Exempt acc. IEC62471	
High Powered red LED illumination (DM260-LED-RED-HP)** Risk Group Exempt acc. IEC62471	

**Note:** \*Use with a 6.2 mm lens only!  
**\*\*Use with a 16 mm lens only!**

## Cables



Connection cable 24V, I/O, RS-232 (CCBL-05-01) Connection cable 24V, I/O, RS-232 (CCB-M12x12Fy-xx) (y=S: straight / y=A: angled *, xx specifies length)	
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Connection cable RS-232 (CCB-M12xDB9Y-05)	
RS-232 & Flying Leads I/O Cable, 2.5 m (DM-RS232IO-00)	
RS-232 adapter cable with power tap (DM100-RS232-000)	
X-Coded to RJ45 Ethernet Cable, 5 m (CCB-84901-2001-xx, where xx can be 02, 05, 10 or 15, indicating length in meters)	
Adapter cable, M12x12 to M8x4/M8x5, 0.5 m (DM260-ADAP-M12M8)	
Adapter cable, ETH, M12, X-CODED/A-CODED, 0.5 m (CCB-M12x8MS-XCAC)	


## Power Supplies

Power supply, 6V (DM100-PWR-000)	
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## Mounting Brackets

Mounting bracket	(DM100-UBRK-000)	
Pivot mounting bracket	(DM100-PIVOTM-00)	

## DataMan 260 Systems

	1-D and Stacked Codes	Omni-directional 1-D Code Reading	1DMax™ — Best-In-Class 1-D Reading	IDQuick™ — High-Speed 2-D Reading	2DMax™ — for hard to read DPM and damaged 2-D codes	Resolution
DataMan 260 S		√	√	√		752 x 480 Global shutter
DataMan 260 QL		√	√			752 x 480 Global shutter
DataMan 260 Q		√	√	√		752 x 480 Global shutter