COGNEX

DataMan® 8072 Verifier
Quick Reference Guide

Precautions

> **⚠ WARNING: LASER LIGHT, DO NOT STARE INTO BEAM: CLASS 2 LASER PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE SERIOUS INJURY.**

To reduce the risk of injury or equipment damage, observe the following precautions when you install the Cognex product:

- This product is intended for industrial use in automated manufacturing or similar applications.
- The safety of any system incorporating this product is the responsibility of the assembler of the system.
- This product does not contain user-serviceable parts. Do not make electrical or mechanical modifications to product components. Unauthorized modifications can void your warranty.
- Route cables and wires away from high-current wiring or high-voltage power sources to reduce the risk of damage or malfunction from the following causes: over-voltage, line noise, electrostatic discharge (ESD), power surges, or other irregularities in the power supply.
- Changes or modifications not expressly approved by the party responsible for regulatory compliance could void the user's authority to operate the equipment.
- Ensure that the cable bend radius begins at least six inches from the connector. Cable shielding can be degraded or cables can be damaged or wear out faster if a service loop or bend radius is tighter than 10X the cable diameter.

- This device should be used in accordance with the instructions in this manual.
- All specifications are for reference purposes only and can change without notice.

Product Overview

⚠ **WARNING**: **LASER LIGHT, DO NOT STARE INTO BEAM**
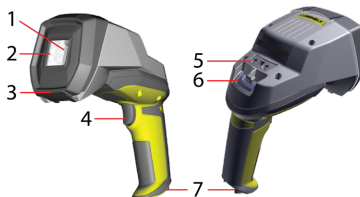
1		Imager and Lens Optical System
2		Illumination
3		Removable Standoff
4		Trigger (press and release)
5		Lanyard hook
6		Indicator light
7		Communication module insertion point

Status indicators:

- Communication:
  - GREEN = good verification
  - RED = bad verification

DataMan DataMan 8072V Verifier Kits

The DataMan 8072V Verifier is available in the following kits:

Model number	Description
DMV-8072V-S-0200	DataMan 8072V Verifier Ethernet Kit with Stand: - 8072V Verifier - Standoff - Ethernet Slide-In - Ethernet Cable Attachment - Standard Ethernet Cable - POE Injector - Basic Calibration Card - Stand Accessory
DMV-8072V-S-0100	DataMan 8072V Verifier USB Kit with Stand: - 8072V Verifier - Standoff - USB Slide-In - USB Cable - Power Supply - Basic Calibration Card - Stand Accessory
DMV-8072V-0200	DataMan 8072V Verifier Ethernet Kit: - 8072V Verifier - Standoff - Ethernet Slide-In - Ethernet Cable Attachment - POE Injector - Basic Calibration
DMV-8072V-0100	DataMan 8072V Verifier USB Kit - 8072V Verifier - Standoff - USB Slide-In - USB Cable - Power Supply - Basic Calibration Card
DMV-8072V-0000	DataMan 8072V Verifier Kit *No Slide-In* - 8072V Verifier - Standoff - Basic Calibration Card

DataMan 8072V verifier and stand-off

Ethernet or USB slide-in

Stand accessory

Calibration card

DataMan 8072V Verifier Accessories

Ethernet Slide-In	DMCM-ENETM-00	
Serial/USB 2.0 Slide-In	DMCM-USB2EN-00	
Power Supply for USB 2.0 Slide-In	DM100-PWR-000	
POE hub	CPS-AC-POE1A-US	
Stand Accessory	DMV-8072V-STAND	
Cognex Basic Calibration Card	DMV-CCC DMV-WCC	
GS1 Conformance Calibration Card	DMV-GS1CC	
Validation Protocol DM8072V	DMV-VPS-DPM	

Cables

USB Cable for USB 2.0 Slide-In, 2.5 m	DM8500-USBC-02	
Ethernet Cable for Ethernet Slide-In, 5 m	DM8000-ECABLE-05	
Standard Ethernet Cable	CBL-C10E	

Connecting the Verifier

1. Connect the slide-in to the reader, and tighten the screws to lock the slide-in.

2. Insert the plug. Slide the cable lock up to the verifier, and twist the cable lock in place.

> **Note**: Disconnect the DataMan 8072V Verifier from power or remove the battery before inserting/removing the communication modules.

Installation

Installation procedures are detailed in the *DataMan 8072 Verifier Reference Manual*, which is installed with the DataMan Setup Tool. From the Windows Start menu, select the following to access the manual: *All Programs > Cognex > DataMan Software vx.x.x > Documentation*.

> **Note**:
> ⓘ
> - Cables are sold separately.
> - If a standard component is missing or damaged, immediately contact your Cognex Authorized Service Provider (ASP) or Cognex Technical Support.

⚠️ **CAUTION**: All cable connectors are "keyed" to fit the connectors on the DataMan system; do not force the connectors or damage may occur.

Install Software, Documentation and Connect the Reader

To configure a DataMan 8072V Verifier, the DataMan Setup Tool software must be installed on a PC on the network. The DataMan Setup Tool is available from the DataMan support site: cognex.com/support/dataman.

1. After installing the software, connect the DataMan 8072V Verifier to your PC.
2. Launch the DataMan Setup Tool and click **Refresh**.
3. Select your DataMan 8072V Verifier from the list and click **Connect**.

DataMan 8072V Verifier Specifications

Weight	400 g (including grip assembly with battery)
Operating Temperature	0ºC — 45ºC (32ºF — 113ºF)
Storage Temperature	0ºC — 60ºC (32ºF — 140ºF)
Maximum Humidity	95% (non-condensing)
Environemntal	IP65
Codes	**2-D barcodes**: Data Matrix™ (IDMax and IDQuick: ECC200), QR Code
Power Supply Requirements	USB: bus powered (optionally: external 6W max LPS or NEC class 2 power supply +5V - +6V DC) ETH: Class 2 PoE supply IEEE 802.3af (connect only to PoE networks without routing to the outside plant)
Inrush current peak	5A maximum Duration: approx. 30µs
Ethernet	10/100 Base-T FULL/HALF DUPLEX, IEEE 802.3

DataMan 8072V Verifier Imager Specifications

Specification	DataMan 8072V Verifier Imager
Image Sensor	1/3 inch CMOS global shutter
Image Sensor Properties	3.75 µm square pixels
Image Resolution (Pixels)	1280 x 966
Lens Type	12 mm F:4 S-mount lens

LED Wavelengths for DataMan 8072V Verifier Reader

The following table shows LED types and the related wavelengths:

LED	λ [nm]
RED	660

Regulations and Conformity

The DataMan 8072V Verifier has Regulatory Model R00071, and meets or exceeds the requirements of all applicable standards organizations for safe operation. However, as with any electrical equipment, the best way to ensure safe operation is to operate them according to the agency guidelines that follow. Please read these guidelines carefully before using your device.

> **Note**: For the most current CE declaration and regulatory conformity information, see the Cognex support site: cognex.com/support.

Regulator	Specification
USA	FCC Part 15B, Class A
Canada	ICES-003, Class A
European Community	CE, Class A EN55032 EN55024
Japan	VCCI-3/2015.04 CISPR 22 Class A
Korea	KN32/KN35

| Safety and Regulatory	
Manufacturer	Cognex Corporation One Vision Drive Natick, MA 01760 USA
CE	DataMan 8072V: Regulatory Model R00071 This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take immediate measures. This equipment complies with the essential requirements of the EU Directive 2014/30/EU. Declarations are available from your local representative.
EU RoHS	Compliant to the most recent applicable directive.

Safety and Regulatory	
FCC	FCC Part 15, Class A This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Canadian Compliance	This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

LED Safety Statement

CAUTION: Illumination and Lens assembly: This device has been tested in accordance with IEC 62471-1:2008 and has been certified to the limits of Risk Group 2. Possibly hazardous optical radiation emitted from this product. Do not stare at the operating lamp. May be harmful to the eyes.

Laser Safety Statement

WARNING: Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. This device has been tested in accordance with IEC60825-1 3rd ed., and has been certified to be under the limits of a Class 2 Laser device.
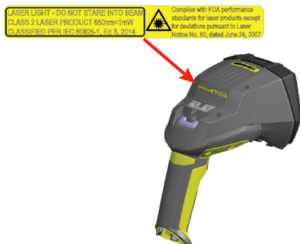
中国大陆RoHS (Information for China RoHS Compliance)

根据中国大陆《电子信息产品污染控制管理办法》(也称为中国大陆RoHS)，以下部份列出了本产品中可能包含的有毒有害物质或元素的名称和含量。

Table of toxic and hazardous substances/elements and their content, as required by China's management methods for controlling pollution by electronic information products.

Part Name 部件名称	Hazardous Substances 有害物质					
	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr (VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚
Regulatory Model R00071	X	O	O	O	O	O
This table is prepared in accordance with the provisions of SJ/T 11364. 这个标签是根据SJ / T 11364 的规定准备的。 O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB / T26572 - 2011. 表示本部件所有均质材料中含有的有害物质低于GB / T26572 - 2011 的限量要求。 X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB / T26572 - 2011. 表示用于本部件的至少一种均质材料中所含的危害物质超过GB / T26572 - 2011 的限制要求。						