

COGNEX

DataMan[®] 470 Series Quick Reference Guide

2018 October 03
Revision: 6.1.03000001.14



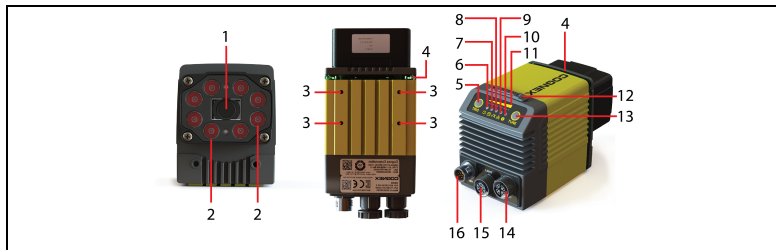
Precautions

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

- The reader is intended to be supplied by a UL or NRTL listed power supply with a 24VDC output rated for at least 2A continuous and a maximum short circuit current rating of less than 8A and a maximum power rating of less than 100VA and marked Class 2 or Limited Power Source (LPS). Any other voltage creates a risk of fire or shock and can damage the components. Applicable national and local wiring standards and rules must be followed.
- 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.
- Do not install Cognex products where they are exposed to environmental hazards such as excessive heat, dust, moisture, humidity, impact, vibration, corrosive substances, flammable substances, or static electricity.
- Do not expose the image sensor to laser light. Image sensors can be damaged by direct, or reflected, laser light. If your application requires laser light that might strike the image sensor, use a lens filter at the corresponding laser wavelength. For suggestions, contact your local integrator or application engineer.
- Changes or modifications not expressly approved by the party responsible for regulatory compliance could void the user's authority to operate the equipment.
- Include service loops with cable connections.

- 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











1	Lens
2	Illumination LED clusters
3	Mounting holes (M3 x 5mm)
4	Indicator light ring
5	Trigger button
6	Power
7	Train status
8	Read/no-read indicator
9	Network
10	Error
11	Peak meter
12	SD card slot
13	Tuning button
14	Ethernet
15	External light control
16	Power, I/O, and RS-232

DataMan 470 Series Accessories





LENS OPTIONS AND COVERS

Accessory		
12 mm F8 fixed aperture lens	LEC-CFF12-F8	
16 mm F8 fixed aperture lens	LEC-CFF16-F8	
16 mm F11 fixed aperture lens	LEC-CFF16-F11	
25 mm F8 fixed aperture lens	LEC-CFF25-F8	
25 mm F11 fixed aperture lens	LEC-CFF25-F11	
35 mm F8 fixed aperture lens	LEC-CFF35-F8	
35 mm F11 fixed aperture lens	LEC-CFF35-F11	
35 mm F16 fixed aperture lens	LEC-CFF35-F16	
40 mm F11 fixed aperture lens	LEC-CFF40-F11	
40 mm F16 fixed aperture lens	LEC-CFF40-F16	
DM500 C-Mount cover (use with HPIA)	DM500-CMTLC-000	
C-Mount cover for C-Mount lenses	DM300-CMCOV	
Short C-Mount cover for C-Mount lenses	DM300-CMCOV-SH	
Extension kit	DM300-EXT	
Spacer kit for DM3xx with HPIA	DMA-SPKIT-30X-00	
DM500 Lens cover extender	DM500-LNSEXT-000	
10.3 mm M12 lens with locking 10.3 mm IR M12 lens with locking	DM300-LENS-10 DM300-LENS-10-IR	




Accessory		
Liquid lens module and pre-focused 10.3 mm or 10.3 mm IR M12 lens with wrench	DM300-LENS-10LL DM300-LENS-10LL-IR	
24 mm F6 liquid lens module with built-in IR blocking filter	DM360-LENS-24LL	
24 mm F10 liquid lens	DMLN-C24F 10-LL	
Blue, red, green, orange bandpass filters	CKR-BP470 CKR-BP635 CKR-BP525 CKR-BP590	
Clear lens cover	DM300-CLCOV	
Clear lens cover with white LED illumination (Risk Group Exempt acc. IEC 62471)	DM300-CLCOV-WHI	
Diffuse lens cover with IR LED illumination, Diffuse lens cover with blue LED illumination, Diffuse lens cover with red LED illumination, Diffuse lens cover with red illumination (assembled), ESD safe Polarizer lens cover with red LED illumination (Risk Group Exempt acc. IEC 62471)	DM300-DLCOV-IR DM300-DLCOV-BL DM300-DLCOV-RE DM300-DLCOV-RE-ESD DM300-PLCOV-RE	
Red LED high-powered integrated light, 10.3 mm lens (Risk Group Red LED Exempt acc. IEC 62471, Risk Group Green LED Aimer Exempt acc. IEC 62471)	DM360-HPIL-RE	
Polarized red LED high-powered integrated light, ESD safe, 10.3 mm lens (Risk Group Red LED Exempt acc. IEC 62471, Risk Group Green LED Aimer Exempt acc. IEC 62471)	DM360-HPIL-RE-P	
White LED high-powered integrated light, 10.3 mm lens (Risk Group White LED low risk acc. IEC 62471, Risk Group Green LED Aimer Exempt acc. IEC 62471)	DM360-HPIL-WHI	







Accessory		
Red LED high-powered integrated light, 24 mm lens (Risk Group Red LED Exempt acc. IEC 62471, Risk Group Green LED Aimer Exempt acc. IEC 62471)	DMLT-HPIL-RE	
Polarized red LED high-powered integrated light, 24 mm lens (Risk Group Red LED Exempt acc. IEC 62471, Risk Group Green LED Aimer Exempt acc. IEC 62471)	DMLT-HPIL-RE-P	
White LED high-powered integrated light, 24 mm lens (Risk Group White LED low risk acc. IEC 62471, Risk Group Green LED Aimer Exempt acc. IEC 62471)	DMLT-HPIL-WHI	


FIELD OF VIEW EXPANDERS

Accessory		
Field of view expander with mount	DMA-XPAND-100	
Field of view expander	DMA-XPAND-150	
Field of view expander	DMA-XPAND-250	
Field of view expander	DMA-XPAND-300	








EXTERNAL LIGHTS (RED LED) AND HIGH POWER ILLUMINATIONS






Accessory		
Ring Light	CLRR-R7030G1CLR	
Back light	CLRB-F100100G1	
Coaxial (DOAL) light	CLRO-K5050G1	

Accessory			
Spot light	CLRS-P14G1		
Dark-field light	CLRD-D120G1		
Brick light, narrow blue	IVSL-ODDM-S75-470		
Brick light, narrow red	IVSL-ODDM-S75-625		
Brick light, narrow white	IVSL-ODDM-S75-WHI		
Bar light, wide red	IVSL-YLW2X-625		
Bar light, narrow red, linear polarizer	IVSL-YLW2X-625P		
Bar light, narrow infrared	IVSL-YLW2X-850		
Bar light, narrow blue	IVSL-YLW2X-470		
Bar light, wide red	IVSL-YLW2X-625-W		
Bar light, narrow white	IVSL-YLW2X-WHI		
Bar light, wide white	IVSL-YLW2X-WHI-W		
Bar light, wide white, linear polarizer	IVSL-YLW2X-WHIP-W		
LX280-series light, blue	IVSL-LX280-470		
LX280-series light, red	IVSL-LX280-625		
HPIA, Red narrow	DM30X-HPIA3-625		
HPIA, Red wide	DM30X-HPIA3-625-W		
HPIA, Red narrow with polarizer	DM30X-HPIA3-625P		
HPIA, Red wide with polarizer	DM30X-HPIA3-625P-W		
HPIA, White narrow	DM30X-HPIA3-WHI		
HPIA, White wide	DM30X-HPIA3-WHI-W		
HPIA, Blue narrow	DM30X-HPIA3-470		
HPIA, Blue wide	DM30X-HPIA3-470-W		
HPIA, Infrared narrow	DM30X-HPIA3-IR		
HPIA, Infrared wide	DM30X-HPIA3-IR-W		

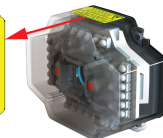
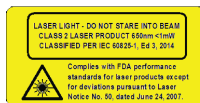
Accessory		
Linear Polarizer Kit	DM30X-HPIA3-LP	

OTHER

Accessory		
Connection cable 24V, I/O, RS-232 (y straight/angled, xx specifies length)	CCB-M12x12Fy-xx	
Connection cable 24V, I/O, RS-232	CCBL-05-01	
Power and I/O breakout cable, M12-12, straight, xx specifies length: 5m, 10m, 15m, angled, xx specifies length: 5m, 10m, 15m	CCB-PWRIO-xx CCB-PWRIO-xxR	
Connection cable RS-232	CCB-M12xDB9Y-05	
X-Coded to A-Coded Ethernet cable adapter, 0.5m	CCB-M12X8MS-XCAC	
External light cable (xxx specifies length)	CCB-M12x4MS-xxx	
I/O extension cable, 5m straight	CKR-200-CBL-EXT	
Laser aimer (use with HPIA)	DM300-AIMER-00	
Connection module (4 or 1 camera) (xx can be US, EU, UK or JP)	DMA-CCM-4X-xx or DMA-CCM-1-xx	

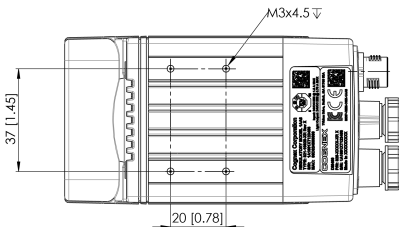
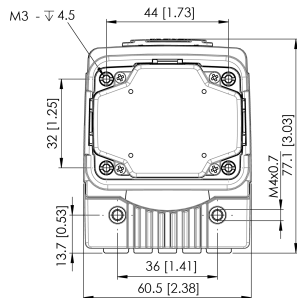
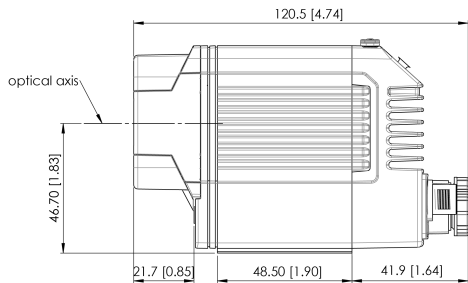
Accessory		
External light mounting brackets (xx specifies light type) (may get used in combination with DM500-BRKT-000 or DM100-PIVOTM-00 if pivoting is required)	DM300-ELMB-xx	
Mounting Bracket Kit	DMBK-470-MNT	
Logistics Bracket	DMA-BKT-LGS	
Universal Mounting Bracket	DM100-UBRK-000	
Pivot Mounting Bracket	DM100-PIVOTM-00	

WARNING: For illuminations DM300-CLOV-WHI, DM300-DLCOV-IR, DM300-PLCOV-RE, DM300-DLCOV-RE-ESD, and DM300-AIMER-00 equipped with laser: This device has been tested in accordance with IEC60825-1 3rd ed., 2014., and has been certified to be under the limits of a Class 2 Laser device.

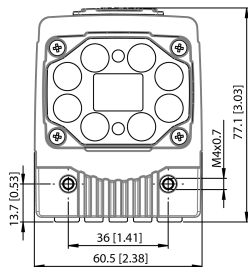
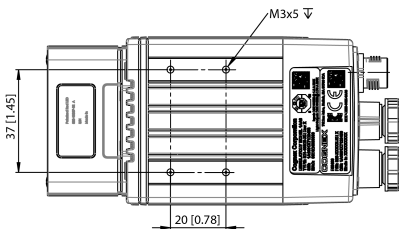
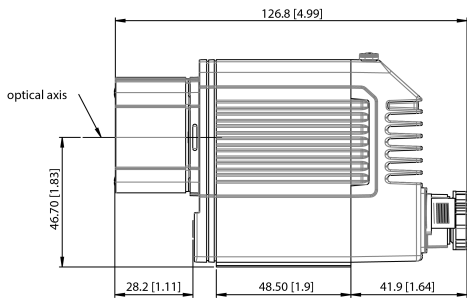


Dimensions

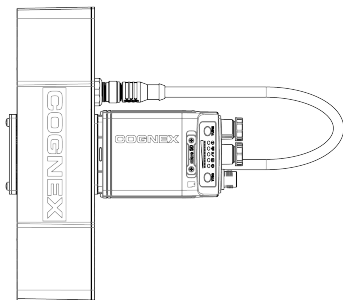
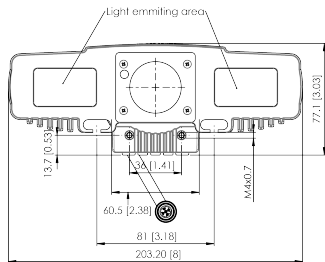
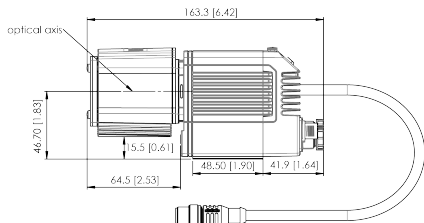
DataMan 474 with LED Cover



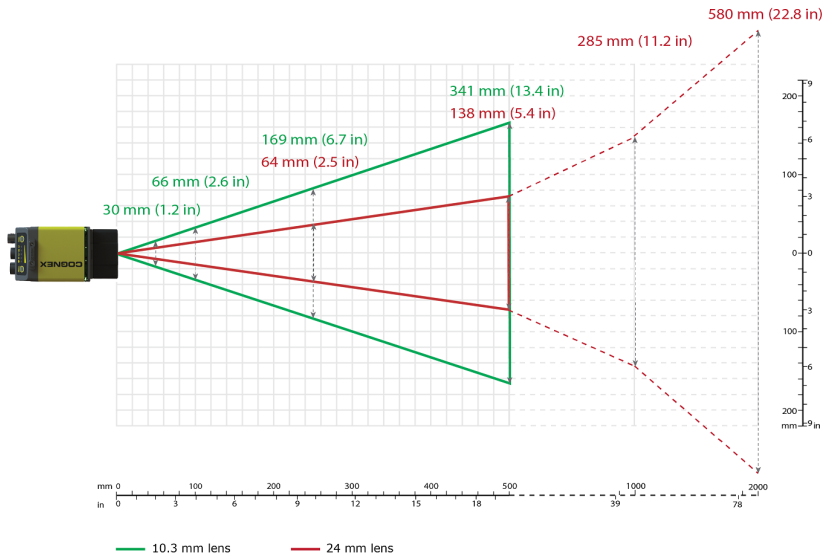
DataMan 474 with High-powered Integrated Light (HPIL)



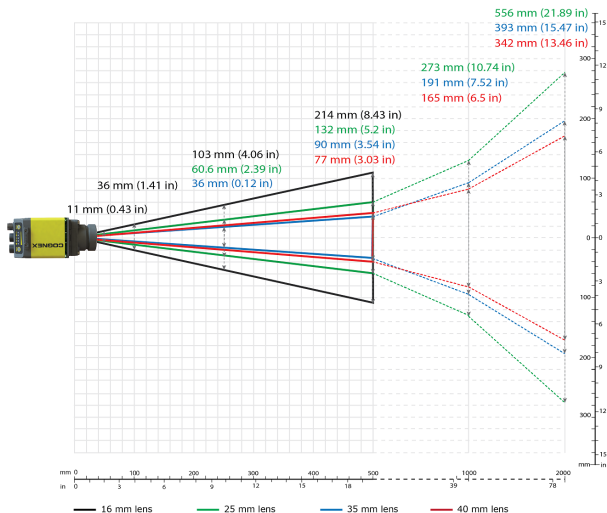
DataMan 474 with High-power Illumination Accessory (HPIA)



Field of View and Reading Distances



Device	Distances in mm/ 2D min. code 10.3 mm lens		Distances in mm/ 1D min. code 10.3 mm lens		Device	Distances in mm/ 2D min. code 24 mm lens		Distances in mm/ 1D min. code 24 mm lens	
	DM474	2-196	5 MIL	21-515		7 MIL	DM474	57-211	2 MIL
0-408		10 MIL	13-643	13 MIL	55-407	4 MIL		73-590	4 MIL
0-831		20 MIL	6-705	18 MIL	51-801	8 MIL		69-1074	6 MIL



Device	Distances in mm/ 20 min. code 16 mm lens		Distances in mm/ 10 min. code 16 mm lens		Device	Distances in mm/ 20 min. code 25 mm lens		Distances in mm/ 10 min. code 25 mm lens		Device	Distances in mm/ 20 min. code 35 mm lens		Distances in mm/ 10 min. code 35 mm lens		Device	Distances in mm/ 20 min. code 40 mm lens		Distances in mm/ 10 min. code 40 mm lens	
	20 min. code	10 min. code	20 min. code	10 min. code		20 min. code	10 min. code	20 min. code	10 min. code		20 min. code	10 min. code	20 min. code	10 min. code		20 min. code	10 min. code	20 min. code	10 min. code
DM474	25-129	2 MIL	20-603	7 MIL	DM474	61-222	2 MIL	61-360	2 MIL	DM474	101-325	2 MIL	100-552	2 MIL	DM474	121-376	2 MIL	120-635	2 MIL
	22-260	4 MIL	11-717	13 MIL		58-426	4 MIL	58-752	4 MIL		98-610	4 MIL	96-1067	4 MIL		118-702	4 MIL	116-1225	4 MIL
	19-523	8 MIL	4-795	18 MIL		54-837	8 MIL	56-1121	6 MIL		94-1184	8 MIL	93-1584	6 MIL		114-1357	8 MIL	113-1570	6 MIL

Connecting the Reader

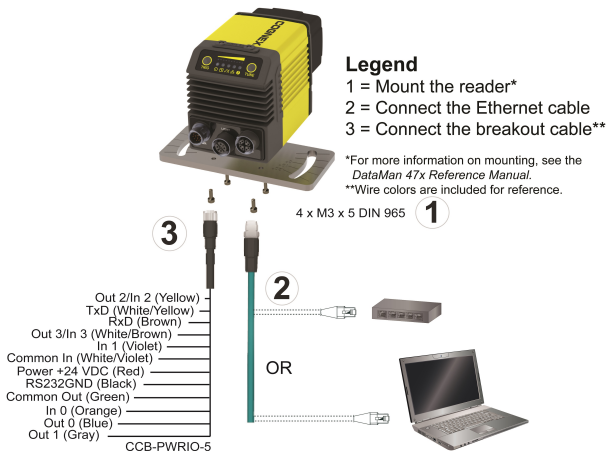
CAUTION: The Ethernet cable shield must be grounded at the far end.



Whatever this cable is plugged into (usually a switch or router) should have a grounded Ethernet connector. A digital voltmeter should be used to validate the grounding. If the far end device is not grounded, a ground wire should be added in compliance with local electrical codes.



CAUTION: To reduce emissions, connect the far end of the Breakout cable shield to frame ground.



Installation

Installation procedures and specifications are presented in detail in the *DataMan 470 Series 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.

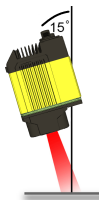
Mounting



CAUTION: It is recommended the reader be grounded, either by mounting the reader to a fixture that is electrically grounded or by attaching a wire from the reader's mounting fixture to frame ground or Earth ground. If a ground wire is used, it should be attached to one of the four mounting points on the back plate of the reader; not to the mounting points on the front of the reader.

Mounting the DataMan reader at a slight angle (15°) can reduce reflections and improve performance.


Use the set of mounting holes on the bottom part to mount the DataMan reader.



For more information on mounting, see the *DataMan 470 Series Reference Manual*.

Connect the Ethernet Cable

CAUTION: The Ethernet cable shield must be grounded at the far end.

 Whatever this cable is plugged into (usually a switch or router) should have a grounded Ethernet connector. A digital voltmeter should be used to validate the grounding. If the far end device is not grounded, a ground wire should be added in compliance with local electrical codes.

1. Connect the Ethernet cable's M12 connector to the DataMan system's ENET connector.
2. Connect the Ethernet cable's RJ-45 connector to a switch/router or PC, as applicable.

Connect the Breakout Cable



CAUTION: To reduce emissions, connect the far end of the Breakout cable shield to frame ground.

Note:



- I/O wiring or adjustments to I/O devices should be performed when the reader is not receiving power.
- You can clip unused wires short or use a tie made of non-conductive material to tie them back. Keep bare wires separated from the +24VDC wire.

1. Verify that the 24VDC power supply is unplugged and not receiving power.
 2. Attach the Breakout cable's +24VDC and Ground to the corresponding terminals on the power supply.
-



CAUTION: Never connect voltages other than 24VDC. Always observe the polarity shown.

3. Attach the Breakout cable's M12 connector to the DataMan 470 series reader's 24VDC connector.
4. Restore power to the 24VDC power supply and turn it on if necessary.

Install Software and Documentation and Connect the Reader

Follow the steps below to connect your reader to power and network:

1. Connect the I/O+RS232+24V cable to your reader.
2. For a network connection, connect your reader through an Ethernet cable to your network.
3. Connect the cable to a 24V power supply.

To configure a DataMan 470 series reader, the DataMan Setup Tool software must be installed on a networked PC. The DataMan Setup Tool is available from the DataMan support site: <http://www.cognex.com/support/dataman>.

1. After installing the software, connect the DataMan 470 series reader to your PC.
2. Launch the DataMan Setup Tool and click **Refresh**.
3. Select your DataMan 470 series reader from the list and click **Connect**.

DataMan 470 Specifications

Weight	373 g with S-mount adapter, without rubber front cover
Power Consumption	<ul style="list-style-type: none"> • 24VDC \pm10%, 1.5A maximum (HPIL)* • 24VDC, 250mA maximum (non-HPIL)* • 24VDC, 1000mA (HPIA)** <p>Supplied by LPS or NEC class 2 only.</p> <p>*HPIL denotes one of the DM360-HPIL-RE, DM360-HPIL-RE-P, DMLT-HPIL-RE or DMLT-HPIL-RE-P accessories. **HPIA denotes one of the DM30X-HPIA3-xxx-xx accessories.</p>
Power Output	24VDC @ 750 mA maximum to external light
Case Temperature ¹	0°C - 57°C (32°F - 134.6°F)
Operating Temperature ²	0°C - 40°C (32°F - 104°F)
Storage Temperature	-20°C - 80°C (-4°F - 176°F)
Humidity	< 95% non-condensing
Environmental	IP67 with cables and appropriate lens cover attached
Shock (Shipping and Storage)	IEC 60068-2-27: 18 shocks (3 shocks in each polarity in each (X, Y, Z) axis) 80 Gs (800m/s ² at 11ms, half-sinusoidal) with cables or cable plugs and appropriate lens cover attached.
Vibration (Shipping and Storage)	IEC 60068-2-6: vibration test in each of the three main axis for 2 hours @ 10 Gs (10 to 500 Hz at 100m/s ² / 15mm) with cables or cable plugs and appropriate lens cover attached
RS-232	RxD, TxD according to TIA/EIA-232-F

¹ Additional cooling measures may be to keep the case temperature from exceeding 50°C. Examples of such measures include: extra heat sinking and/or air movement.

² In situations where the operating temperature exceeds 40°C, an external heat sink is required.

Codes	DataMan 474 1-D barcodes: Codabar, Code 39, Code 128, and Code 93, Interleaved 2 of 5, MSI, UPC/EAN/JAN, Code25 2-D codes: Data Matrix™ (IDMax and IDQuick: ECC 0, 50, 80, 100, 140, and 200), QR Code and microQR Code, MaxiCode Stacked codes: PDF 417		
Discrete I/O operating limits	HS Output 0,1,2,3	I_{MAX}	50 mA
		R_{MIN}	@ 12VDC 200 Ω
	Input 0 (Trigger)	V_{IH}	$\pm 15 - \pm 28$ V
	Input 1,2,3	V_{IL}	0 — ± 5 V
		I_{TYP}	@ 12VDC 2.0 mA @ 24VDC 4.2 mA
Light Connector	0.75 A maximum		
Ethernet Speed	10/100/1000		
Duplex Mode	Full duplex or half duplex		

DataMan 470 Series Imager Specifications

Specification	DataMan 474 Imager
Image Sensor	1/1.8 inch CMOS
Image Sensor Properties	7.2 mm x 5.4 mm (H x V); 3.45 μ m square pixels
Image Resolution (pixels)	2048 x 1536
Electronic Shutter Speed	minimum exposure: 15 μ s maximum exposure: 25 ms with internal illumination/100000 μ s with external illumination
Image Acquisition at Full Resolution	max. 55 Hz

Specification	DataMan 474 Imager
Lens Type	S-Mount 10.3 mm F:5 with liquid lens only with IR blocking filter C-Mount 24 mm F:6 with liquid lens only with IR blocking filter C-Mount 24 mm F:10 with liquid lens with IR blocking filter C-Mount lenses (with limitations, see below) ¹ : 12 mm F:8 fixed aperture lens 16 mm F:8 fixed aperture lens 16 mm F:11 fixed aperture lens 25 mm F:8 fixed aperture lens 25 mm F:11 fixed aperture lens 35 mm F:8 fixed aperture lens 35 mm F:11 fixed aperture lens 40 mm F:11 fixed aperture lens

¹ Limitations to C-Mount lenses:

- The length of the thread may not exceed 5.4 mm.
- For a chosen lens, the distance from the C-mount shoulder to the bottom of the lens may not exceed 5.4mm. Possibly, a lens spacer is required.
- When using the C-Mount lens cover, lens dimensions including spacer and filters may not exceed 32 x 42 mm (diameter x length).

To avoid accelerated aging of built-in illumination LEDs, which results in light intensity degradation, consider the following duty cycle limits above 25°C (77°F):

- At 35°C (95°F): 4% duty cycle, for example, 750 μs exposure and 18493 μs interval.
- At 45°C (113°F): 2% duty cycle, for example, 350 μs exposure and 18093 μs interval or 1000 μs exposure and 50000 μs interval.

LED Wavelengths

The following table shows LED types and the related peak wavelengths:


LED	λ [nm]
WHITE	6500K
BLUE	470
RED	617
HIGH POWER RED	617
IR	850

Regulations/Conformity

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

DataMan 470 readers have Regulatory Model R00062 and meet or exceed 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.

Safety and Regulatory	
Manufacturer	Cognex Corporation One Vision Drive Natick, MA 01760 USA
USA	TÜV SÜD AM SCC/NRTL OSHA Scheme for UL/CAN 61010-1. 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.
Canada	TÜV SÜD AM SCC/NRTL OSHA Scheme for UL/CAN 61010-1. ICES-003, Class A 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.

Safety and Regulatory	
Europe	<p>CAUTION: 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 adequate measures.</p> 
	<p>The CE mark on the product indicates that the system has been tested to and conforms to the provisions noted within the 2014/30/EU Electromagnetic Compatibility Directive and the 2011/65/EU RoHS Directive. For further information, please contact: Cognex Corporation, One Vision Drive, Natick, MA 01760, USA. Cognex Corporation shall not be liable for use of our product with equipment (i.e., power supplies, personal computers, etc.) that is not CE.</p>
Korea	<p>A급 기기(업무용 방송통신기자재): 이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다. For DataMan 474 with Regulatory Model R00062: R-REM-CGX-R00062.</p>
International Product Safety	<p>Conforms to IEC 61010-1, CAN/CSA-C22.2 No. 61010-1:2012 + UPD No. 1:2015-07, UL 61010-1:2012 + R:2015-07, UL 61010-1:2012 + R:2015-07, EN 61010-1:2010.</p>
CB	<p>TÜV SÜD AM, IEC/EN 61010-1. CB report available upon request.</p>

For European Community Users

Cognex complies with Directive 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE).

This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems for product disposal. Those systems will reuse or recycle most of the materials of the product you are disposing in a sound way.



The crossed out wheeled bin symbol informs you that the product should not be disposed of along with municipal waste and invites you to use the appropriate separate take-back systems for product disposal.

If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You may also contact your supplier for more information on the environmental performance of this product.

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.

	Hazardous Substances 有害物质					
Part Name 部件名称	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 R00062	X	O	O	O	O	O
<p>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。</p> <p>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。</p> <p>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有害物质超过GB/T26572 - 2011的限制要求。</p>						

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