MATRIX 320™ 2MP

ODATALOGIC

Top performing 2D reader to empower shop floor and intralogistic traceability



Matrix 320 image based code reader has been designed to EMPOWER TRACEABILITY applications providing benefits for End Users and Machine Builders. Matrix 320 brilliantly solves traceability applications in Intralogistics, Distribution, 3PL, Retail logistics and the Shop Floor.

Matrix 320 offers a COMPLETE SOLUTION and TOP PERFORMANCE to achieve higher productivity at the best price/performance ratio with its superior 2MP sensor (1920 \times 1080 pixels with a 16:9 form factor), achieving an extra large Field of View (FOV) on horizontal axis that competes against 3MP readers.

Matrix 320 has excellent reading performance on label and high resolution DPM with a powerful Smart configurable lighting allowing 3 color options able to solve extremely challenging traceability applications. To boost productivity in Intralogistics and Logistics segments, hands-free operations enjoy higher performance with Matrix 320 snappy reactivity and its outstanding Depth of Field (DOF).

Matrix 320 provides the highest market application flexibility with a modular design, a reduced number of models complemented by a complete portfolio of lenses, lightings, filters, and accessories.

Embedded electronic focus for the Liquid Lens models dramatically reduces installation time and allows easy reconfiguration improving production flexibility in line with Industry 4.0 requirements. Matrix 320 is very easy to install with its improved integrated aiming system, X-Press button HMI and DL.Code software powered by easy and intuitive autolearning/autosetup features.

C-Mount assembly modular design provides the highest flexibility in the selection and in the combination of the parts reducing the feasibility time and cost, helping system integrators to find effective powerful solutions for vertical applications in any industrial environment to grow the business opportunities.

Full industrial connectivity, overall compactness, rotating connectors and a top industrial grade make Matrix 320 extremely easy to fit into every industrial environment. New configurable 360-degree multicolor read-feedback and Green / Red Spot technology provide an outstanding visual feedback. Performance Analysis is also simplified by a new web interface to monitor the reader with a complete suite of diagnostics that leverages a new generation of FTP image saving. The new web Device Discovery simplifies the access and monitoring of all the readers in the network.

Matrix 320 2MP models compliment the current Matrix family of Matrix 120 and Matrix 220, once again establishing Datalogic leadership in Stationary Industrial Scanners.

HIGHLIGHTS

- Innovative 2MP sensor (1920 \times 1080 pixels with 16:9 form factor) performs outstanding Depth of Field (D0F) and Horizontal Field of View (F0V $_{\rm H}$)
- \bullet Smart configurable lighting solutions allowing 3 color options in two formats
- · Electronic focus adjustment
- · C-Mount models for maximum optical configurability and high intrinsic DOF
- · Covers and filters accessories for easy stock management
- New Generation FTP Image saving
- · Full industrial connectivity
- New web Device Discovery to quickly access all the readers in the network
- New configurable 360 degree multicolor visual feedback
- Top Industrial grade

APPLICATIONS

Manufacturing

Automotive, Food & Beverage, Pharmaceutical, Electronics, General Manufacturing

- Direct Part Marking Reading
- Component and Part Traceability
- Wip Traceability (Automatic)
- · Print & Apply
- Secondary Packaging Traceability
- · End of Line Traceability

Manufacturing, Transportation and Logistics, Retail

Intralogistics Automation, Automated Warehouse, Distribution Center

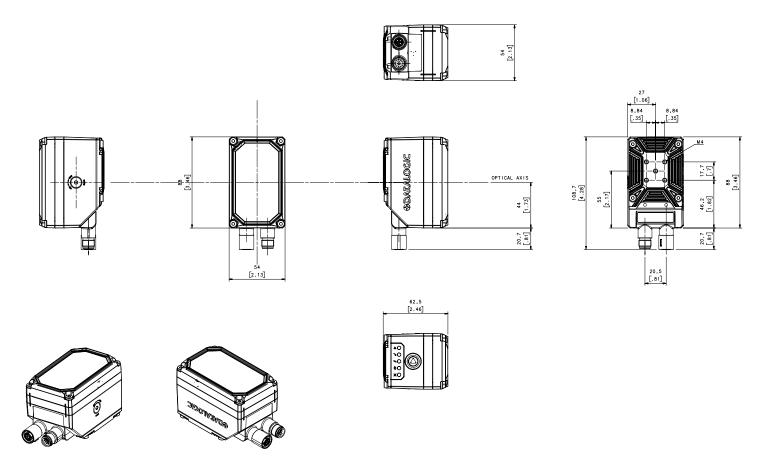
- Inbound, Pallet Picking (Fork Lift)
- Print & Apply verification (Re-labelling)
- Depalletizing, Part Traceability
- Order Fulfillment (Automatic, Manual)
- Palletizing (Automatic, Manual), Cage Preparation
- Pallet Traceability, Pallet Wrapping
- Retrieval for outbound (Forklift)
- Reverse Logistics

TECHNICAL DATA

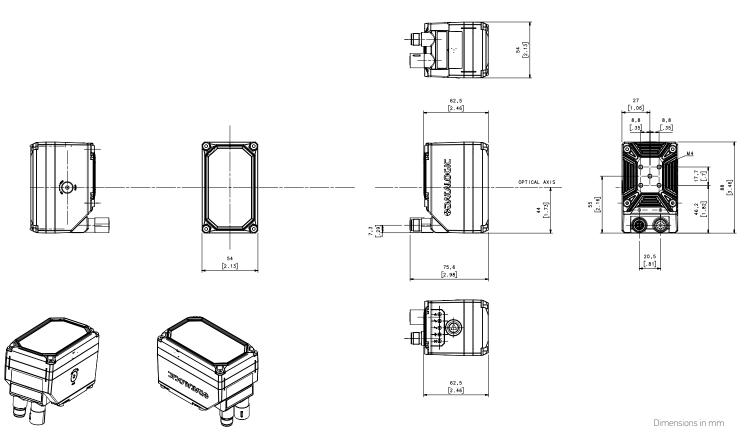
Sensor	Image resolution 2.0 Mnivel (1920 v 1090) 14	·9 form factor - 1/3" CMOS global shutter			
Frame Rate	Image resolution 2.0 Mpixel (1920 x 1080) 16:9 form factor - 1/3" CMOS global shutter 60 frames/s				
	00 HdH	es/s			
LIQUID LENS MODELS					
Reading Range	6mm: Minimum: 50 - Maximum: 550 mm 9mm: Minimum: 35 - Maximum: 1000 mm 16mm: Minimum: 70 - Maximum: 1500 mm				
Optical Models (Viewing Angles)	Liquid Lens 9 mm (34°), Liquid Lens 16 mm (20°)				
Optical Focus Control	Electronic focus control				
Illumination	Internal illuminators colors: Blue, Red, White lights (only for Liquid Lens 9 mm and 16 mm)				
ntummution	Internal illuminator power: High Power 14 LEDs	Internal illuminator power: Very High Power 36 LEDs			
C-MOUNT MODELS					
Optical Models (Viewing Angles)	C-Mount Lens 4 mm (68°), 6 mm (48°), 8 mm (37°), 12	2 mm (25°), 16 mm (19°), 25 mm (12°), 35 mm (9°)			
Optical Focus Control	Manual focus a	adjustment			
Warning and a second	Internal illuminators colo	rs: Blue, White, IR, UV			
Illumination	Not available Internal illuminators power: Very High Po				
Polarizing Filter	Available as front c	over accessory			
Code Quality Metrics	1D CQ Standard: I				
<u> </u>	2D CQ Standard: ISO/IEC 16022/18004, ISO/IEC 29158 (AIM-DPM), ISO/IEC 15415				
Power Supply	24 VDC ±	± 10%			
Max Power Consumption	0.42 A, 10 W max	0.62 A, 15 W max.			
Protection Class EN60529	IP65 and	IP67			
Operating Temperature	Liquid lens models: -0 to C-MOUNT models: -10 to				
Storage Temperature	-20 to 70 °C / -	4 to 158 °F			
Case Material	Aluminium case and plastic	protective window cover			
Dimensions	H 108.7 x W 54 x L 55.5 mm / 4.3 x 2.1 x 2.2 in; Connector at 0° H 88 x W 54 x L 75.6 mm / 4.3 x 2.1 x 2.2 in; Connector at 90°	H 115.5 x W 126 x L 70.3 mm / 4.6 x 4.9 x 2.8 in; Connector at H 101 x W 126 x L 90.7 mm / 4.6 x 4.9 x 2.8 in; Connector at 90.7 mm / 4.6 x 4.9 x 2.8 in;			
	Liquid lens 14 LED illuminator: 380 gr / 13.4 oz	Liquid lens 36 LED illuminator: 650 gr / 22.9 oz			
Weight		C-MOUNT 36 LED illuminator: reader body 300 gr / 10.6 oz illuminator adapter 300 gr / 10.6 oz illuminator 300 gr / 10.6 oz			
Sulfur Gas Resistance	Available for all models accord	ding to ISO EN 60068-2-43			
ESD Safe	Available as front cover accessory	Not Available			
YAG Laser Protection	Available as filter accessory (c	compatible with ESD cover)			
Flexible Cables	Available as a	ccessories			
Embedded Communication Interfaces	- Ethernet 10/100/1000 Mbit/s: TCP/IP, UDP, FTP, SFTP and Fieldbus PROFINET IO, Ethernet IP, Modbus TCP - Serial RS-232/RS4-22FD up to 115.2 Kbit/s + Serial Aux RS-232 up to 115.2 Kbit/s - OPC UA				
Reader Networking	Datalogic IE	D-NET™			
Connectivity Modes	Pass Through, Master/Slave				
Digital Inputs	2 inputs opto-coupled ar Max. Voltago Max. Input Cur	e 30 VDC			
Digital Outputs	3 Outputs: configurable NPN, PNP and PP short-circuit protected VOUT (ILOAD = 0 mA) max. 24 VDC VOUT (ILOAD = 100 mA) max. 3 VDC ILOAD max. 100mA				
	Using CBX connection box the fire	on box the first 2 outputs are opto-coupled			
Aiming System	Laser cross red pro	· · · · · · · · · · · · · · · · · · ·			
User Interface	Configurable 360 degree mo Green Spot and R X-PRESS™ Human N Beeper, X-PRESS™ Push Button, 7 LEDs (Status, Communi Web Monitorin	Red Spot LEDs Machine Interface ication , Trigger, Good Read, Ready, Power on, Network)			
Device Programming	DL.CODE™ Windows-based software (programming via Ethe Serial Host Mode X-PRESS™ Human N	ernet or Serial Interface) with Javascript output formatter programming			
	2-Year Factory Warranty				

DIMENSIONS

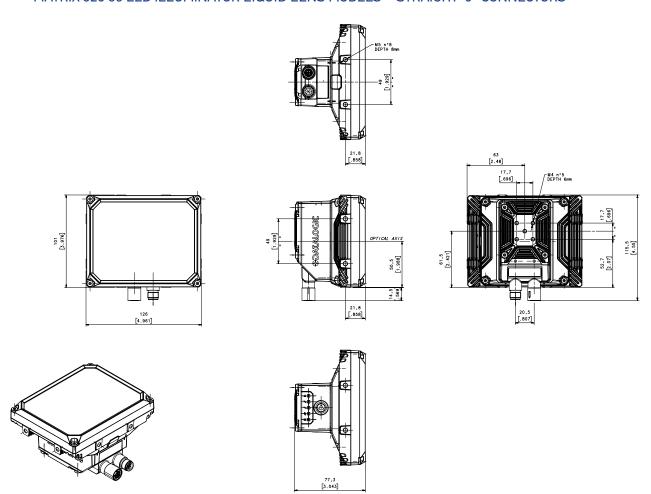
MATRIX 320 14 LED ILLUMINATOR LIQUID LENS MODELS - STRAIGHT 0° CONNECTORS



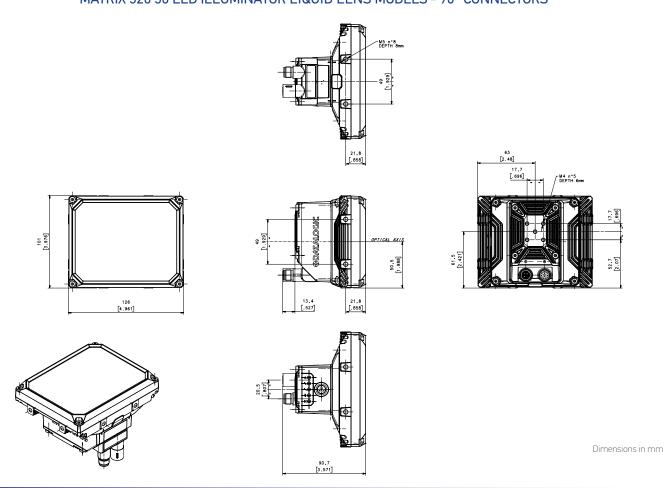
MATRIX 320 14 LED ILLUMINATOR LIQUID LENS MODELS - 90° CONNECTORS



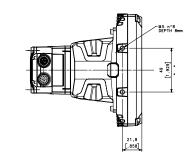
MATRIX 320 36 LED ILLUMINATOR LIQUID LENS MODELS - STRAIGHT 0° CONNECTORS

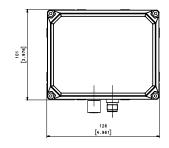


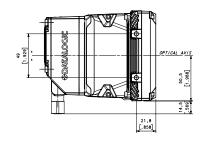
MATRIX 320 36 LED ILLUMINATOR LIQUID LENS MODELS - 90° CONNECTORS

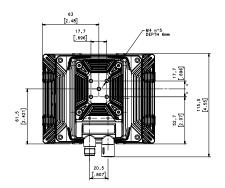


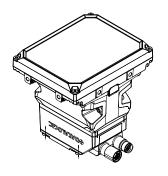
MATRIX 320 C-MOUNT FULL PRODUCT - STRAIGHT 0° CONNECTORS

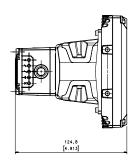




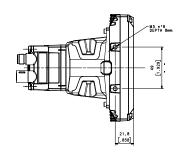


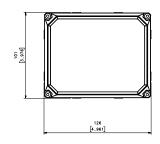


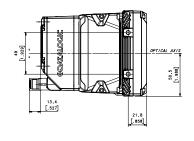


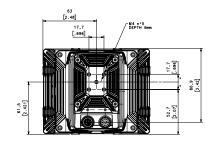


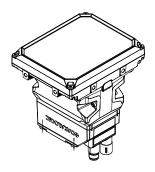
MATRIX 320 C-MOUNT FULL PRODUCT - 90° CONNECTORS

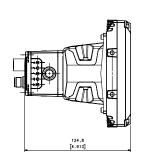






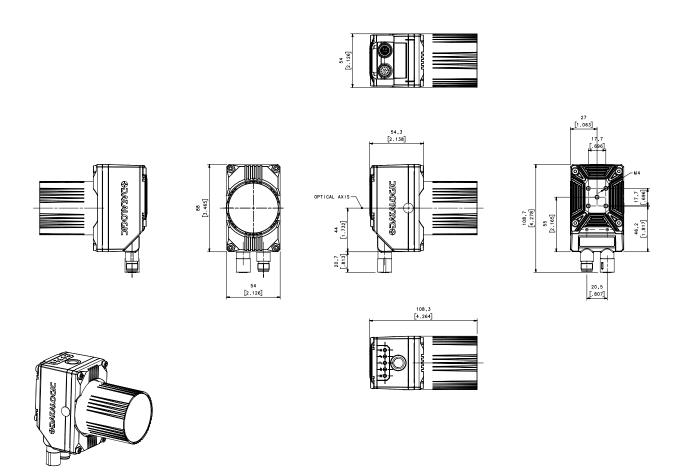




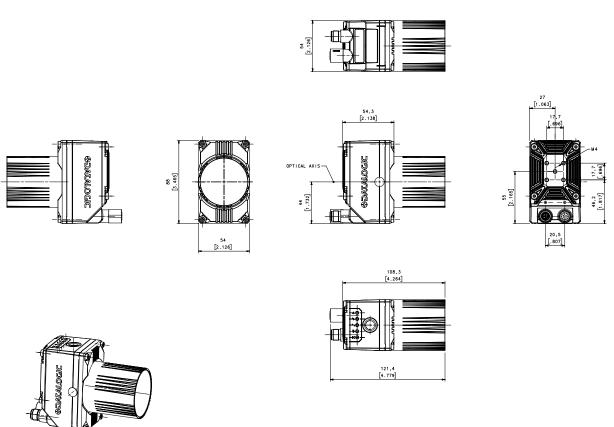


Dimensions in mm

MATRIX 320 C-MOUNT READER and COVER LENS SHORT - STRAIGHT 0° CONNECTORS

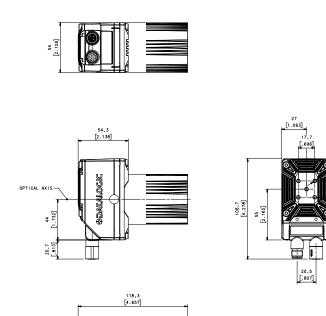


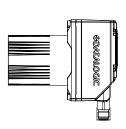
MATRIX 320 C-MOUNT READER and COVER LENS SHORT - 90° CONNECTORS

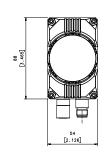


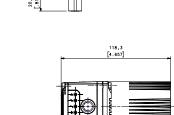
Dimensions in mm

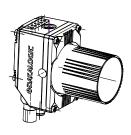
MATRIX 320 C-MOUNT READER and COVER LENS LONG - STRAIGHT 0° CONNECTORS



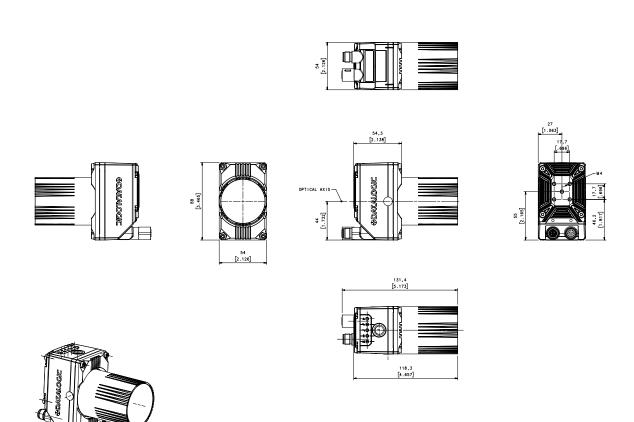








MATRIX 320 C-MOUNT READER and COVER LENS LONG - 90° CONNECTORS



Dimensions in mm

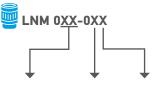
MODELS

D/N		RIX 320 2MP C-	MOUNT	MODEL	.J					
P/N	DESCRIPTION					00.6: :-				
938100035	Matrix 320 700-030 CM 2MP 1/3	Matrix 320 2MP reader body								
93ACC0281	Adapter LT to CM M320	ILLUMINATOR ADAPTER to Matrix 320 reader body								
					C-M	DUNT	LENS	ES		
P/N	DESCRIPTION	Focal lenght (mm)	Max Sensor Format		rture /#)	Min (mm	workin) from	g distance lens front	Max workii (mm) from	ng distance lens front
93ACC0285	LNM 000-021 CM 4MM VF1.8 1/2" ED	4	1/2"	f/1.8			0		0	
93ACC0286	LNM 001-031 CM 6MM VF1.85 1/2" ED	6	1/2"	f/1.85			50		0	
93ACC0287	LNM 003-021 CM 8MM VF1.8 1/2" ED	8	1/2"	f/1.8			50		0	
93ACC0288	LNM 005 021 CM 12MM VF1.8 1/1.8" ED	12	1/2"	f/1.8			10		٥	
93ACC0289	LNM 007-021 CM 16MM VF1.8 1/1.8" ED	16	1/2"	f/1.8					∞ ∞	
93ACC0290	LNM 009-031 CM 25MM VF1.85 1/1.8" ED	25 35	1/2"	f/1.85 f/1.85				0		
93ACC0292	LNM 010-011 CM 35MM VF1.65 1/1.8" ED								_	
P/N	DESCRIPTION	36 LED Very High Power	RED	BLU	WHT	IR	UV	Aiming	r, adapter, br Illuminator adapter	Mounting Bracket
93ACC0391	KIT LTM 002-001 S36L 120D WHT white NL	Х			Х			cross		
93ACC0356	KIT LTM 002-601 S36L 60D WHT white	Х			Х			cross		
93ACC0357	KIT LTM 002-451 S36L 45D WHT white	Х			Х			cross		
93ACC0392	KIT LTM 222-451 SA36L 45D WHT white	X			Х			grid		
93ACC0394	KIT LTM 002-351 S36L 35D WHT white	Х			Х			cross		
93ACC0395	KIT LTM 002-151 S36L 15D WHT white	Х			X			cross		
93ACC0396	KIT LTM 002-000 S36L 120D RED 625nm NL	Х	Х					cross		
93ACC0397	KIT LTM 002-600 S36L 60D RED 625nm	Х	Х					cross		
93ACC0398	KIT LTM 002-450 S36L 45D RED 625nm	X	Х					cross	93ACC0281	93ACC0283
93ACC0399	KIT LTM 002-350 S36L 35D RED 625nm	X	Х					cross	incuded	incuded
93ACC0400	KIT LTM 002-150 S36L 15D RED 625nm	X	X	.,				cross	in the illuminator	in the illuminator
93ACC0358 93ACC0359	KIT LTM 002-002 S36L 120D BLU 475nm NL KIT LTM 002-602 S36L 60D BLU 475nm	X		X				cross	KIT	KIT
93ACC0357	KIT LTM 002-002 536L 00D BLO 4751111 KIT LTM 002-452 S36L 45D BLU 475nm	X		X				cross		
93ACC0361	KIT LTM 002-452 S36L 45D BLU 475nm	X		X				cross		
93ACC0362	KIT LTM 002-152 S36L 15D BLU 475nm	X		X				cross		
93ACC0401	KIT LTM 002-003 S36L 90D IR 850nm NL	Х				Х		cross		
93ACC0363	KIT LTM 002-453 S36L 45D IR 850nm	Х				Х		cross		
93ACC0402	KIT LTM 002-353 S36L 35D IR 850nm	Х				Х		cross		
93ACC0403	KIT LTM 002-253 S36L 25D IR 850nm	Х				Х		cross		
93ACC0364	KIT LTM 002-004 S36L 130D UV 365nm NL	Х					Х	cross		
P/N	DESCRIPTION	36 LED Very High Power	RED	BLU		includ IR	des sta UV	andard cov Aiming	er) Illuminator adapter	Mounting Bracket
93ACC0294	LTM 002-001 S36L 120D WHT white NL	X			X			cross		
93ACC0298	LTM 002-601 S36L 60D WHT white	Х			Х			cross		
93ACC0302	LTM 002-451 S36L 45D WHT white	X			X			cross		
93ACC0330	LTM 222-451 SA36L 45D WHT white	X			X			grid		
93ACC0306 93ACC0354	LTM 002-351 S36L 35D WHT white LTM 002-151 S36L 15D WHT white	X			X			cross		
		X			X			cross		
03 V L L U 3 0 3		V						cross		
93ACC0293	LTM 002-000 S36L 120D RED 625nm NL	X	X					crocc		
93ACC0297	LTM 002-600 S36L 60D RED 625nm	Х	Х					cross		
93ACC0297 93ACC0301	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm	x x	X X					cross		
93ACC0297 93ACC0301 93ACC0305	LTM 002-600 S36L 60D RED 625nm	x x x	X X X					cross cross	Not inclu	
93ACC0297	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm	x x	X X	X				cross	Not inclu	
93ACC0297 93ACC0301 93ACC0305 93ACC0353	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm LTM 002-150 S36L 15D RED 625nm	X X X X	X X X	X				cross cross		
93ACC0297 93ACC0301 93ACC0305 93ACC0353 93ACC0295	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm LTM 002-150 S36L 15D RED 625nm LTM 002-002 S36L 120D BLU 475nm NL	x x x x	X X X					cross cross cross		
93ACC0297 93ACC0301 93ACC0305 93ACC0353 93ACC0295 93ACC0299	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm LTM 002-150 S36L 15D RED 625nm LTM 002-002 S36L 120D BLU 475nm NL LTM 002-602 S36L 60D BLU 475nm	X X X X	X X X	Х				cross cross cross cross		
93ACC0297 93ACC0301 93ACC0305 93ACC0353 93ACC0295 93ACC0299 93ACC0303 93ACC0307	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm LTM 002-150 S36L 15D RED 625nm LTM 002-002 S36L 120D BLU 475nm NL LTM 002-602 S36L 60D BLU 475nm LTM 002-452 S36L 45D BLU 475nm	X X X X X X X	X X X	X				cross cross cross cross cross cross		
93ACC0297 93ACC0301 93ACC0305 93ACC0353 93ACC0295 93ACC0299 93ACC0303	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm LTM 002-150 S36L 15D RED 625nm LTM 002-150 S36L 12D BLU 475nm NL LTM 002-602 S36L 60D BLU 475nm LTM 002-452 S36L 45D BLU 475nm LTM 002-352 S36L 35D BLU 475nm	x x x x x x x	X X X	X X X		X		cross cross cross cross cross cross cross		
93ACC0297 93ACC0301 93ACC0305 93ACC0353 93ACC0295 93ACC0299 93ACC0303 93ACC0307 93ACC0355	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm LTM 002-150 S36L 15D RED 625nm LTM 002-002 S36L 120D BLU 475nm NL LTM 002-602 S36L 60D BLU 475nm LTM 002-452 S36L 45D BLU 475nm LTM 002-352 S36L 35D BLU 475nm LTM 002-352 S36L 15D BLU 475nm	x x x x x x x x	X X X	X X X		X		cross cross cross cross cross cross cross cross cross		
93ACC0297 93ACC0301 93ACC0305 93ACC0353 93ACC0295 93ACC0299 93ACC0303 93ACC0307 93ACC0355 93ACC0296	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm LTM 002-150 S36L 15D RED 625nm LTM 002-002 S36L 120D BLU 475nm NL LTM 002-602 S36L 60D BLU 475nm LTM 002-452 S36L 45D BLU 475nm LTM 002-352 S36L 35D BLU 475nm LTM 002-152 S36L 15D BLU 475nm LTM 002-103 S36L 90D IR 850nm NL	x x x x x x x x x	X X X	X X X				cross		
93ACC0297 93ACC0301 93ACC0305 93ACC0353 93ACC0295 93ACC0299 93ACC0303 93ACC0307 93ACC0355 93ACC0296 93ACC0300	LTM 002-600 S36L 60D RED 625nm LTM 002-450 S36L 45D RED 625nm LTM 002-350 S36L 35D RED 625nm LTM 002-150 S36L 15D RED 625nm LTM 002-002 S36L 120D BLU 475nm NL LTM 002-602 S36L 60D BLU 475nm LTM 002-452 S36L 45D BLU 475nm LTM 002-352 S36L 35D BLU 475nm LTM 002-152 S36L 15D BLU 475nm LTM 002-153 S36L 90D IR 850nm NL LTM 002-453 S36L 45D IR 850nm	x x x x x x x x x x x x x x	X X X	X X X		Х		cross		

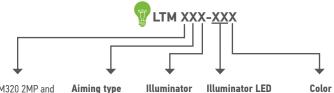




(GIGE)



Focal length	Min F	Lens Type 1 = Edmund
01 = 4mm	number	i = Euillullu
02 = 6 mm	2 = F1.8	
03 = 8 mm	3 = F1.85	



0=M320 2MP and M320 5MP 1=M320 2MP only 2=M320 5MP only

Aiming type0 = cross aiming
2 = grid aiming

Illuminator size 2 = 36 LED

lens aperture 15 = ultra narrow (15D)

0 = red

1 = white

2 = blue

3 = IR

4 = UV

35 = narrow (35D) 45 = narrow (45D) 60 = wide (60D)

120 = ultra wide (120D)



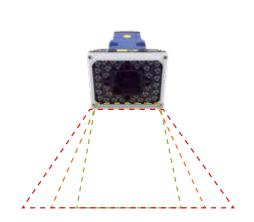
Different options of Total Internal Reflection (TIR) lenses on the illuminator LEDs to match smart camera lens aperture

05 = 12mm

07= 16mm

09= 25mm

10= 35mm



14 LED ILLUMINATOR MODELS AND LED CHAIN CONFIGURATION				
Lights ON	LEDs COLOR			
All Chains	White, Red, Blue			
Central Chain	White, Red, Blue			
Top/Bottom Chain	White, Red. Blue			







36 LED ILLUMINATOR MODELS AND LED CHAIN CONFIGURATION				
Lights ON	LEDs COLOR			
All Chains	White, Red, Blue			
Top Left	White, Red, Blue			
Top right	White, Red, Blue			
Bottom left	White, Red, Blue			
Bottom right	White, Red, Blue			
Left	White, Red, Blue			
Right	White, Red, Blue			
Any combination of the above chain options	White, Red, Blue			



ILLUMINATOR LEDS COLOR			
Illuminator Power	LEDs COLOR		
14 LED	White, Red, Blue		
36 LED	White, Red, Blue		













360 DEGREE VISUAL FEEDBACK DEFAULT COLOR			
Default configuration	LEDs COLOR		
Good Read	Green		
No Read	Red		
Configuration	Blue		













ACCESSORIES

CATEGORY	PART NUMBER	DESCRIPTION
	93A050058	M12-IP67 Cable To CBX or QL (1M)
	93A050059	M12-IP67 Cable To CBX or QL (3M)
	93A050060	M12-IP67 Cable To CBX or QL (5M)
	93A051390	M12-IP67 Cable To CBX or QL (10M)
	93A050116	M12-IP67 17p Flexible Cable To CBX or QL (1M)*
	93A050117	M12-IP67 17p Flexible Cable To CBX or QL (3M)*
	93A050118	M12-IP67 17p Flexible Cable To CBX or QL (5M)*
	93A050122	M12-IP67 GIGA Ethernet Cable X-Coded (1M)
CABLE	93A050123	M12-IP67 GIGA Ethernet Cable X-Coded (3M)
	93A050124	M12-IP67 GIGA Ethernet Cable X-Coded (5M)
	93A050140	M12-IP67 GIGA Ethernet Cable X-Coded (10M)
	93A050125	M12-IP67 GIGA Ethernet Flexible Cable X-Coded (1M)*
	93A050126	M12-IP67 GIGA Ethernet Flexible Cable X-Coded (3M)*
	93A050127	M12-IP67 GIGA Ethernet Flexible Cable X-Coded (5M)*
	93A050129	Adapter Cable GIGA Ethernet X-Coded to Ethernet D-Coded
	93ACC0268	Serial RS-232 HID E Keybrd Converter Cbl
	93A050141	Adapter Cable FULL GIGA Ethernet X-Coded M12 to RJ-45
	93ACC0271	Cover STD LT 14L M320/P2
	93ACC0272	Cover STD LT 36L M320/P2
	93ACC0273	Cover Polarizer LT 14L M320/P2
COVER	93ACC0274	Cover Polarizer LT 36L M320/P2
	93ACC0278	Cover ESD LT 14L M320/P2
	93ACC0279	Cover Lens and CM Base Short
	93ACC0280	Cover Lens and CM Base Long
	93ACC0275	Filter Half Polarizer LT 14L M320/P2
	95A900016	Filter BLU Bandpass 475nm LT 14L M320/P2
	95A900015	Filter RED Bandpass 625nm LT 14L M320/P2
	95A900017	Filter IR Bandpass 850nm LT 14L M320/P2
	95A900039	Filter UV Cut Longpass 415 LT 14L M320/P2
FILTER	95A900020	Filter BLU Bandpass 475nm LT 36L M320/P2
	95A900019	Filter RED Bandpass 625nm LT 36L M320/P2
	95A900021	Filter IR Bandpass 850nm LT 36L M320/P2
	95A900040	Filter UV Cut Longpass415 LT 36L M320/P2
	95A900018	Filter YAG Cut LT 14L M320/P2
	95A900022	Filter YAG Cut LT 36L M320/P2
BRACKET	93ACC0282	BK-32-000 STD FIX BRACKET M320/P2 BODY
DIMONEI	93ACC0283	BK-32-010 PIVOT FIX BRACKET M320/P2 BODY









^{*} Suitable for robotic arms applications