

# MATRIX 320™ 5MP



## The next step beyond intralogistics traceability



Matrix 320 5MP image based code reader has been designed to EMPOWER INTRALOGISTICS TRACEABILITY applications providing benefits for End Users and Machine Builders. Matrix 320 5MP brilliantly solves traceability applications in Intralogistics, Distribution, 3PL, Retail, logistics and in the Shop Floor and Factory Automation.

Matrix 320 5MP offers a COMPLETE SOLUTION and TOP PERFORMANCE to achieve higher productivity at the best price/performance ratio. Matrix 320 5MP has excellent reading performance with a powerful smart configurable lighting system allowing 2 color options (blue, white) and 2 power options (Very and Ultra High Power) able to solve extremely challenging traceability applications.

To boost productivity in Intralogistics and Logistics segments, hands-free operations enjoy higher performance with Matrix 320 5MP snappy reactivity because of its outstanding Depth of Field (DOF), a new grid pattern aiming system, a new embedded distance sensor for the best user experience and reading throughput.

Matrix 320 5MP modular design with a complete portfolio of lenses, lightings, filters, and accessories provides the highest market application 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.

Matrix 320 5MP is very easy to install with its new embedded orientation sensor, the new fast replacing bracket, the smart adapter that allows live focus and iris calibration without exposing the inside product to harsh environmental condition, the improved integrated aiming system, the embedX-Press button HMI and DL.Code software powered by an intuitive autolearning/autosetup features.

Full industrial connectivity, overall compactness, rotating connectors, a top industrial grade make Matrix 320 5MP 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 fast FTP image saving. The new web Device Discovery simplifies the access and monitoring of all the readers in the network.

Matrix 320 5MP models together with Matrix 320 2MP, compliment the current Matrix family of Matrix 120 and Matrix 220, once again establishing Datalogic leadership in Stationary Industrial Scanners.

### HIGHLIGHTS

- C-Mount models for maximum optical configurability and high intrinsic DOF
- Standard VHP (Very High Power) and new UHP (Ultra High Power) lightings for challenging applications
- Covers and filters for special applications provided as accessories for easy stock management
- Packtrack capability to minimize the gap between objects and increase system productivity
- New embedded orientation sensor and smart aiming systems for easy installation
- Grid pattern aiming system and embedded distance sensor to improve throughput in presentation applications
- Web monitoring and fast image saving at Gigabit Ethernet speed for complete performance diagnostics
- Configurable 360 degree visual feedback for enhanced operator experience
- Full industrial connectivity and Top Industrial Grade for easy and safe integration

### APPLICATIONS

#### Intralogistics, Logistic, E-Commerce - Retail Logistic Automation

- Inbound / Outbound Pallet Picking (Fork Lift)
- Print & Apply verification (Re-labelling)
- Order Fulfillment (Automatic/Manual) and Order Verification
- Tote verification
- Apparel and Small Items traceability
- Depalletizing, Palletizing, Cage Preparation
- Pallet Traceability / Pallet Wrapping
- Reverse Logistic

#### Manufacturing

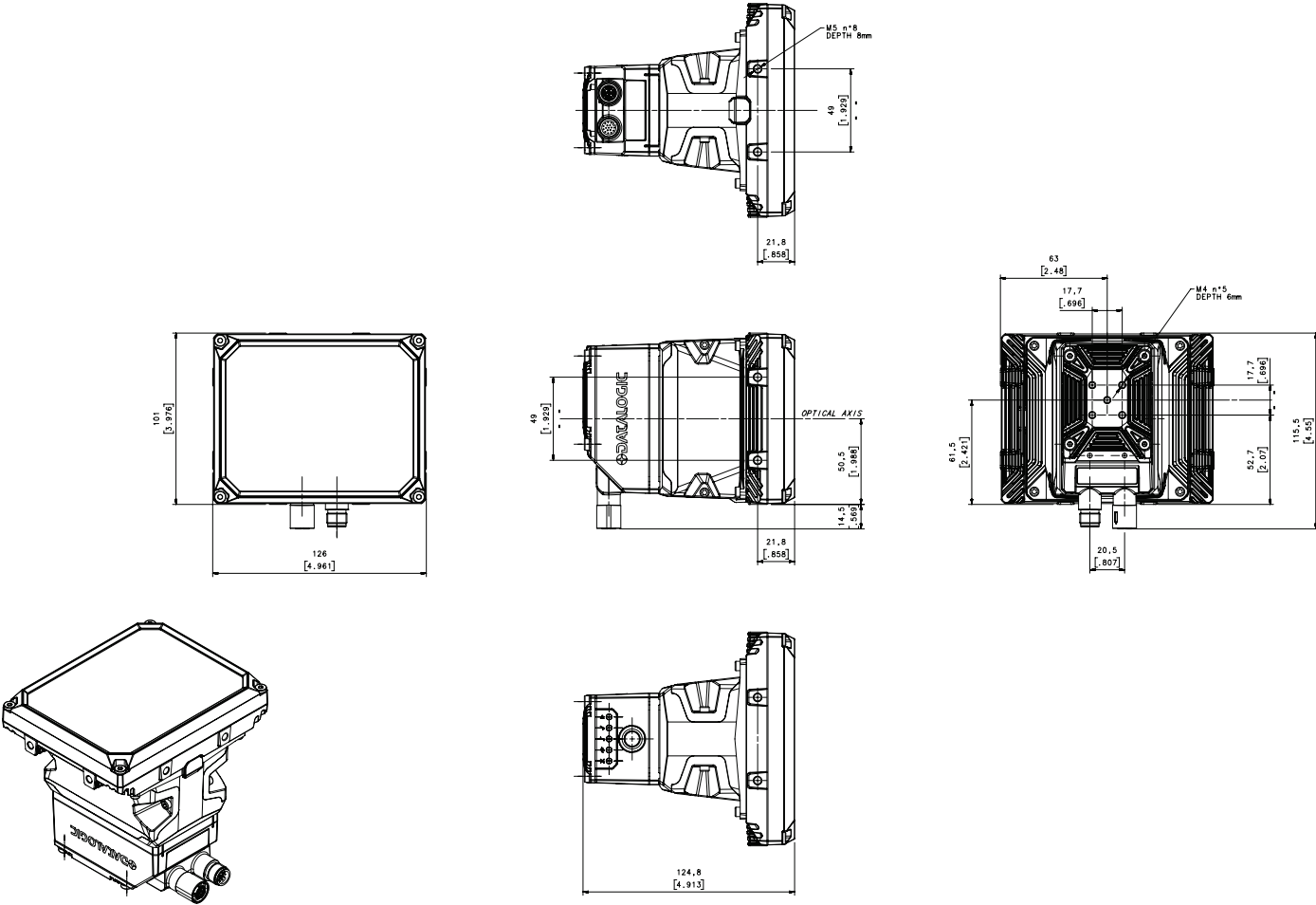
- Automotive Work in Progress (WIP) and Traceability
- Component / Part Traceability
- Secondary Packaging Traceability (bundling)
- End of Line Traceability

# TECHNICAL DATA

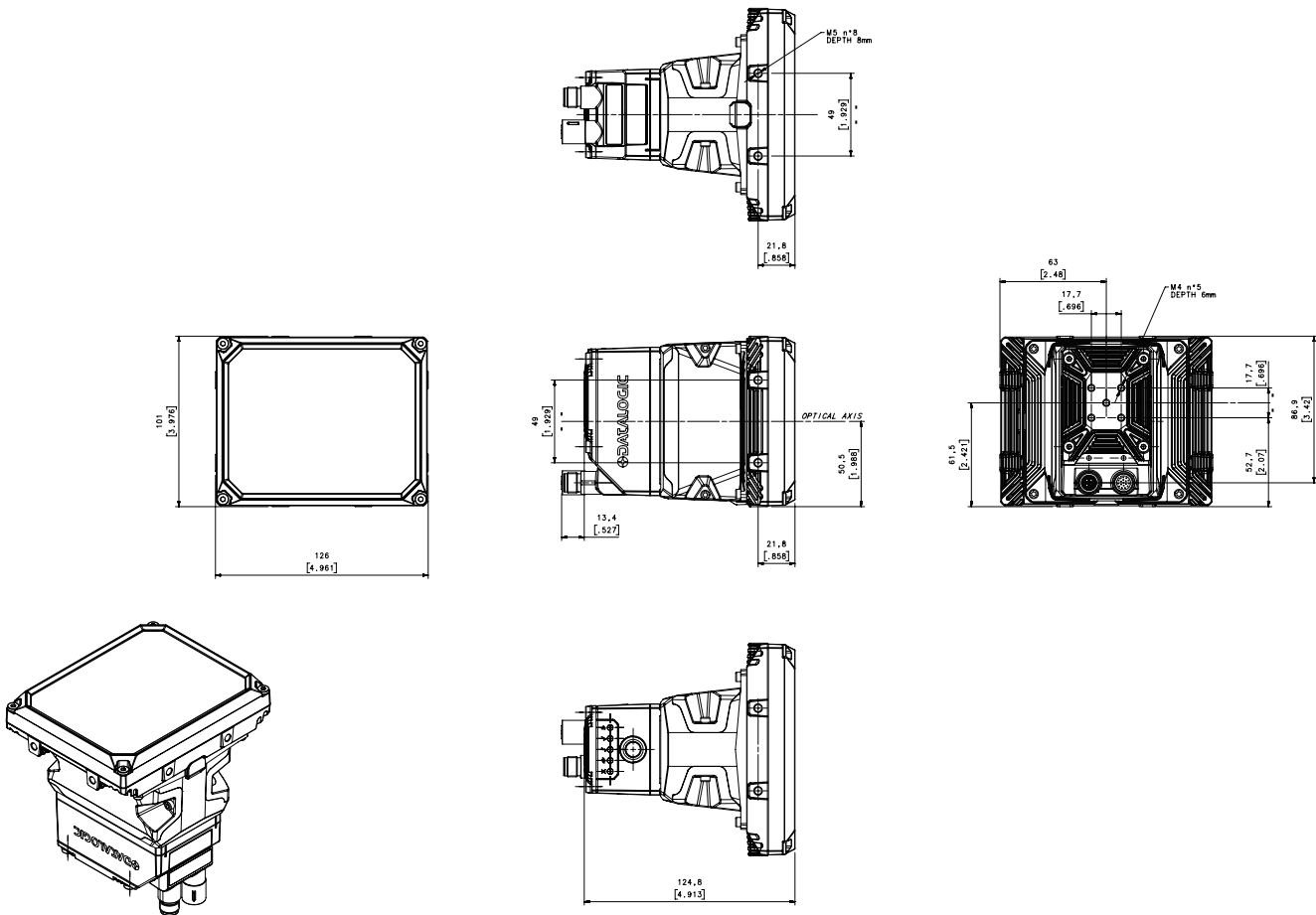
|                                          | <b>Very High Power VHP 36 Led Illuminator Model</b>                                                                                                                                                                                                              | <b>Ultra High Power UHP 72 Led Illuminator Model</b>                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Sensor</b>                            | Sensor Image resolution 5.0 Mpixel (2560 × 1936) - 1/1.8" CMOS global shutter                                                                                                                                                                                    |                                                                                                                                   |
| <b>Frame Rate</b>                        | 25 frames/s                                                                                                                                                                                                                                                      |                                                                                                                                   |
| <b>Optical models (Viewing angles)</b>   | C-Mount Lens 8mm (50°), 12mm (34°), 16mm (25°), 25mm (16°), 35mm (12°), 50mm (8°)                                                                                                                                                                                |                                                                                                                                   |
| <b>Optical Focus Control</b>             | Manual focus adjustment                                                                                                                                                                                                                                          |                                                                                                                                   |
| <b>Illumination</b>                      | Internal illuminators colors: Blue, White, IR, UV                                                                                                                                                                                                                | Internal illuminators colors: Blue, White                                                                                         |
| <b>Polarizing filter</b>                 | Available as front cover accessory                                                                                                                                                                                                                               |                                                                                                                                   |
| <b>Code Quality Metrics</b>              | 1D CQ Standard: ISO/IEC 15416<br>2D CQ Standard: ISO/IEC 16022/18004, ISO/IEC 29158 (AIM-DPM), ISO/IEC 15415                                                                                                                                                     |                                                                                                                                   |
| <b>Power Supply</b>                      | 24 Vdc ± 10%                                                                                                                                                                                                                                                     |                                                                                                                                   |
| <b>Max Power Consumption</b>             | 0.85 A, 20,5 W max.                                                                                                                                                                                                                                              | 1.30 A, 31 W max.                                                                                                                 |
| <b>Protection Class EN60529</b>          | IP65 and IP67                                                                                                                                                                                                                                                    |                                                                                                                                   |
| <b>Operating Temperature</b>             | -10 to 50°C (14 to 122 °F)                                                                                                                                                                                                                                       |                                                                                                                                   |
| <b>Storage Temperature</b>               | -20 to 70 °C (-4 to 158 °F)                                                                                                                                                                                                                                      |                                                                                                                                   |
| <b>Case Material</b>                     | Aluminium case and plastic protective window cover                                                                                                                                                                                                               |                                                                                                                                   |
| <b>Dimensions</b>                        | H 115.5 x W 126 x L 124.8 mm (4.6 x 4.9 x 4.91 in) Connector at 0°<br>H 101 x W 126 x L 138.2 mm (4.6 x 4.9 x 5.44 in) Connector at 90°                                                                                                                          | H 145 x W 181 x L 121.5 mm (5.7 x 7.1 x 4.8 in) Connector at 0°<br>H 145 x W 181 x L 142 mm (5.7 x 7.1 x 5.9 in) Connector at 90° |
| <b>Weight</b>                            | reader body 300 gr (10.6 oz)<br>illuminator adapter 300 gr (10.6 oz)<br>illuminator 300 gr (10.6 oz)                                                                                                                                                             | reader body 300 gr (10.6 oz)<br>illuminator adapter 300 gr (10.6 oz)<br>850 gr (29.9 oz)                                          |
| <b>Sulfur gas resistance</b>             | Available for all models according to ISO EN 60068-2-43                                                                                                                                                                                                          |                                                                                                                                   |
| <b>YAG Laser Protection</b>              | Available as filter accessory                                                                                                                                                                                                                                    | Not available                                                                                                                     |
| <b>Embedded communication interfaces</b> | - Ethernet 10/100/1000 Mbit/s: TCP/IP, UDP, FTP, SFTP and Fieldbus PROFINET IO, Ethernet IP, Modbus TCP<br>- Serial RS232/RS422FD up to 115.2 Kbit/s + Serial Aux RS232 up to 115.2 Kbit/s<br>- OPC UA                                                           |                                                                                                                                   |
| <b>Reader Networking</b>                 | Datalogic ID-NET™                                                                                                                                                                                                                                                |                                                                                                                                   |
| <b>Connectivity Modes</b>                | Pass Through, Master/Slave, Ethernet point to point                                                                                                                                                                                                              |                                                                                                                                   |
| <b>Digital Inputs</b>                    | 2 inputs opto-coupled and polarity insensitive<br>Max. Voltage 30 Vdc<br>Max. Input Current 10 mA                                                                                                                                                                |                                                                                                                                   |
| <b>Digital Outputs</b>                   | 3 Outputs: configurable NPN, PNP and PP short-circuit protected<br>VOUT (ILOAD = 0 mA) max. 24 Vdc<br>VOUT (ILOAD = 100 mA) max. 3 Vdc<br>ILOAD max. 100mA<br>Using CBX connection box the first 2 outputs are opto-coupled                                      |                                                                                                                                   |
| <b>Aiming System</b>                     | Cross aiming Laser Class II<br>Grid pattern aiming Laser Class I                                                                                                                                                                                                 | Dual spot aiming Laser Class II                                                                                                   |
| <b>Embedded distance sensor</b>          | Distance range: 100mm to 2500mm<br>Viewing angle: Horizontal: 18°; Vertical 12°                                                                                                                                                                                  |                                                                                                                                   |
| <b>Embedded orientation sensor</b>       | Measure the device orientation (pitch and roll angles)<br>Can be enabled to generate alarm in case of device orientation change                                                                                                                                  |                                                                                                                                   |
| <b>User Interface</b>                    | Configurable 360 degree multicolor visual feedback<br>Green spot and Red spot LEDs<br>X-PRESS™ Human Machine Interface<br>Beeper, X-PRESS™ Push Button, 7 LEDs (Status, Communication, Trigger, Good Read, Ready, Power on, Network)<br>Web Monitoring Interface |                                                                                                                                   |
| <b>Device Programming</b>                | DL.CODE™ Windows-based software (programming via Ethernet or Serial Interface) with Javascript output formatter<br>Serial Host Mode programming<br>X-PRESS™ Human Machine Interface                                                                              |                                                                                                                                   |
| <b>Warranty</b>                          | 2-Year Factory Warranty                                                                                                                                                                                                                                          |                                                                                                                                   |

# DIMENSIONS

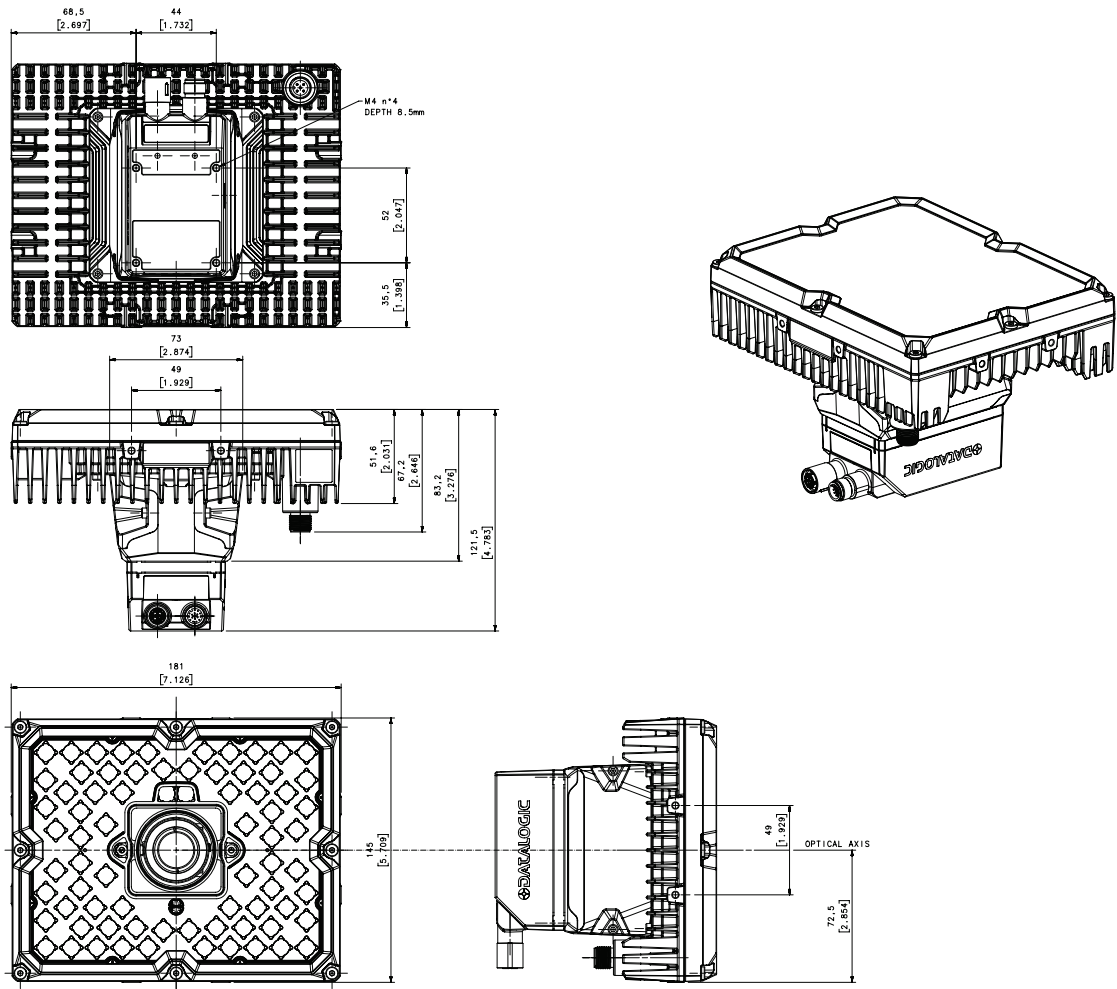
## MATRIX 320 C-MOUNT 36 LED FULL PRODUCT - STRAIGHT 0° CONNECTOR



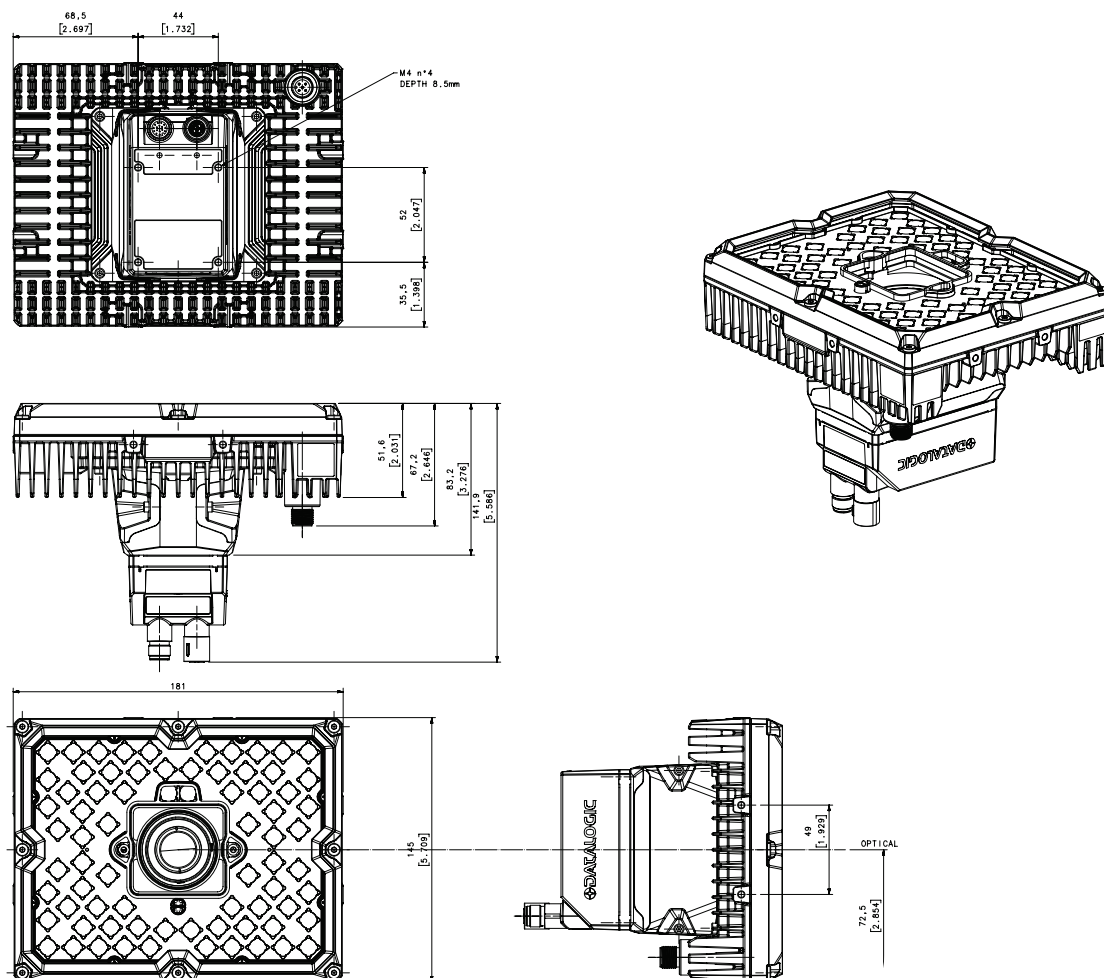
## MATRIX 320 C-MOUNT 36 LED FULL PRODUCT - STRAIGHT 90° CONNECTOR



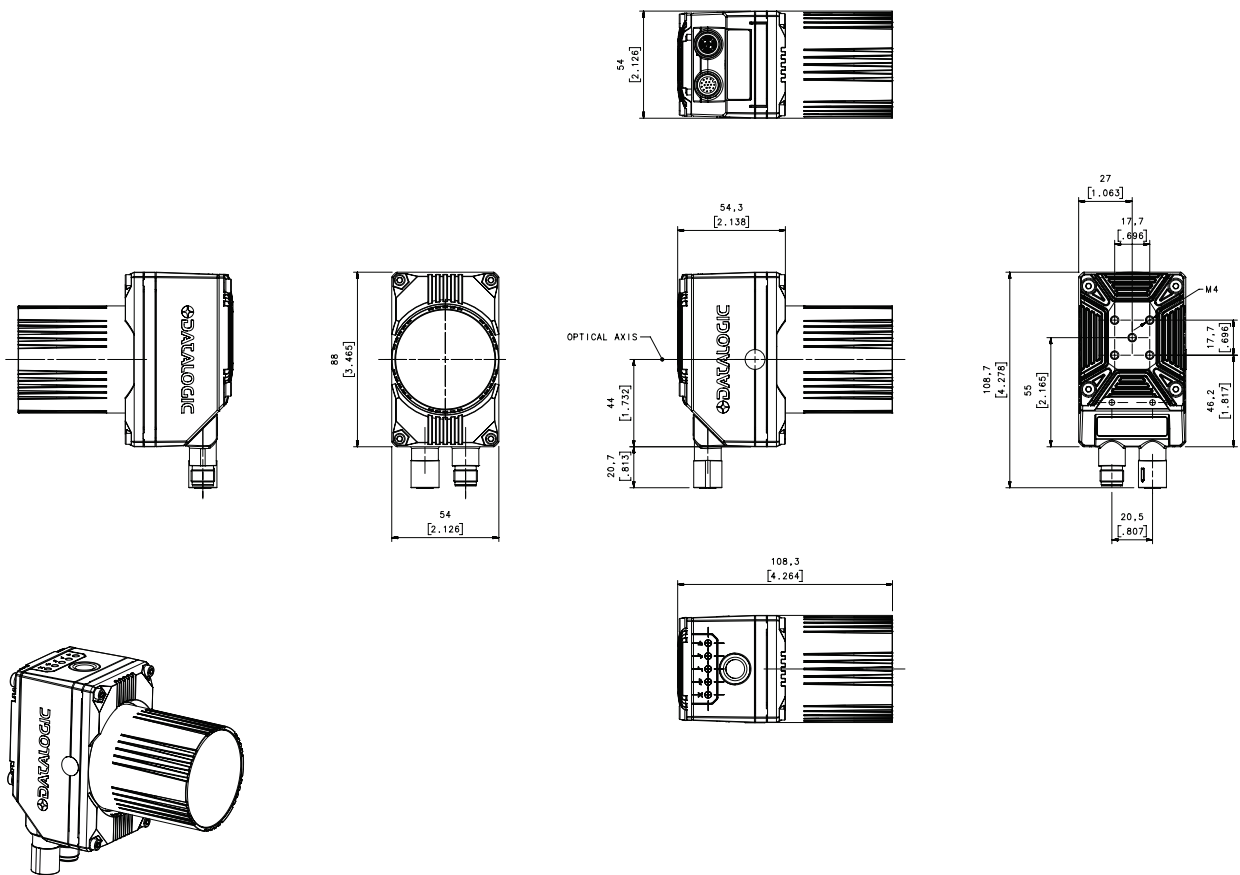
## MATRIX 320 C-MOUNT 72 LED FULL PRODUCT - STRAIGHT 0° CONNECTOR



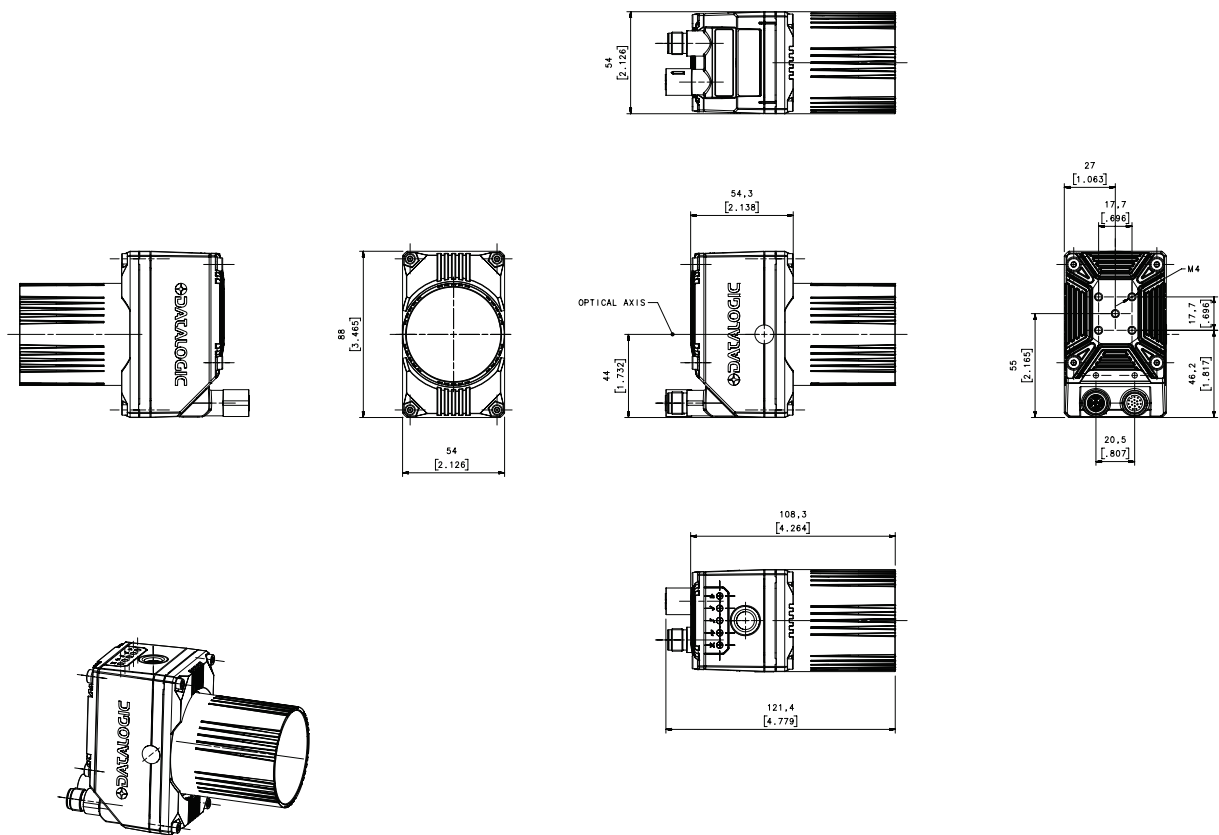
## MATRIX 320 C-MOUNT 72 LED FULL PRODUCT - STRAIGHT 90° CONNECTOR



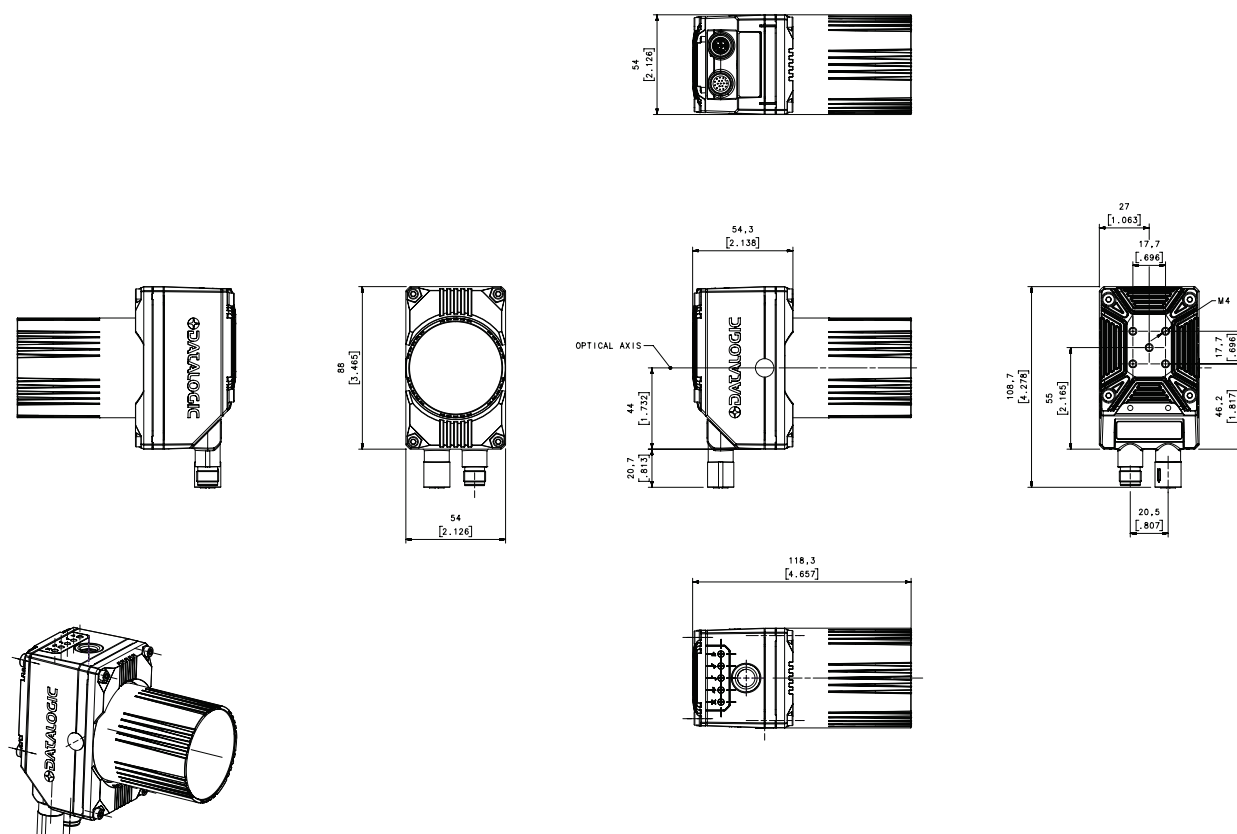
MATRIX 320 C-MOUNT READER and COVER LENS SHORT - STRAIGHT 0° CONNECTORS



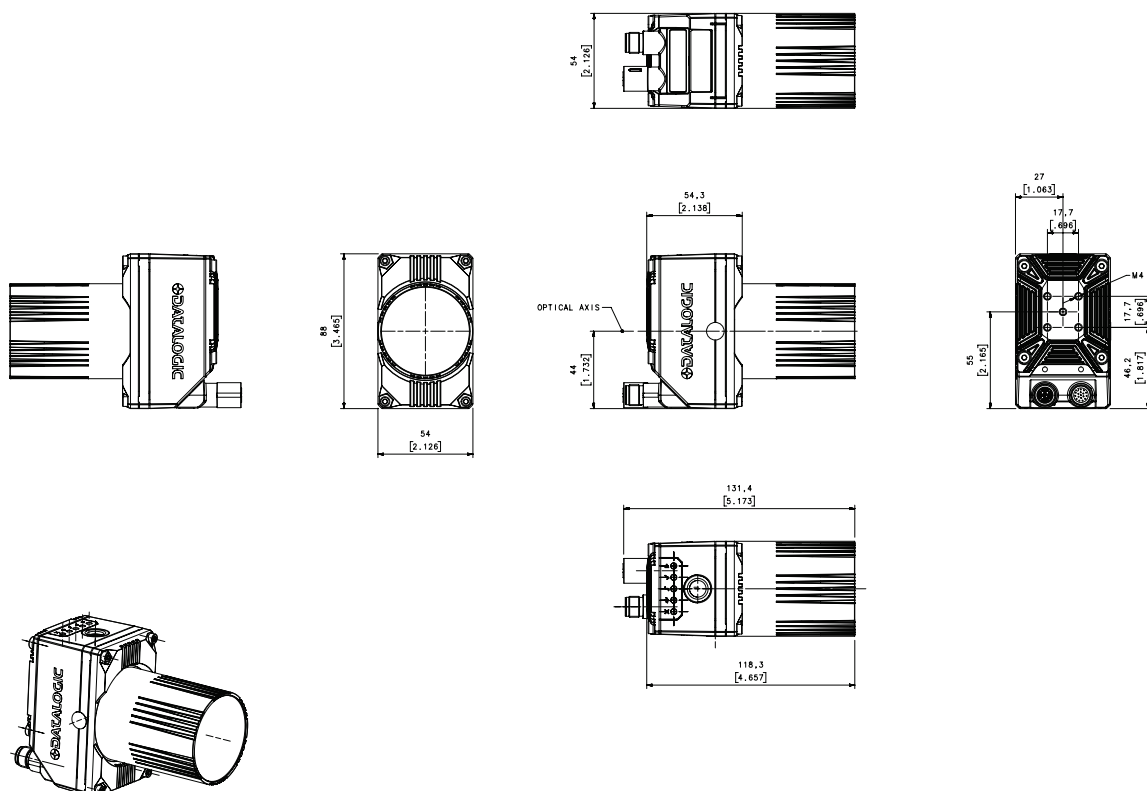
MATRIX 320 C-MOUNT READER and COVER LENS SHORT - 90° CONNECTORS



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



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



# MODELS

| MATRIX 320 5MP C-MOUNT MODELS |                                        |                                                        |                         |                   |                |                                           |                                           |    |        |                                           |                                           |
|-------------------------------|----------------------------------------|--------------------------------------------------------|-------------------------|-------------------|----------------|-------------------------------------------|-------------------------------------------|----|--------|-------------------------------------------|-------------------------------------------|
| P/N                           | DESCRIPTION                            | Matrix 320 5MP reader body                             |                         |                   |                |                                           |                                           |    |        |                                           |                                           |
| 938100041                     | Matrix 320 800-030 CM 5.0MP 1/2"       | ILLUMINATOR ADAPTER to Matrix 320 reader body          |                         |                   |                |                                           |                                           |    |        |                                           |                                           |
| 93ACC0281                     | Adapter LT to CM M320                  | C-MOUNT LENSES                                         |                         |                   |                |                                           |                                           |    |        |                                           |                                           |
| P/N                           | DESCRIPTION                            | Focal lenght (mm)                                      | RED                     | Max Sensor Format | Aperture (f/#) | Min working distance (mm) from lens front | Max working distance (mm) from lens front |    |        |                                           |                                           |
| 93ACC0287                     | LNM 003-021 CM 8MM VF1.8 1/2" ED       | 8                                                      |                         | 1/2"              | f/1.8-f/11     | 50                                        | ∞                                         |    |        |                                           |                                           |
| 93ACC0288                     | LNM 005 021 CM 12MM VF1.8 1/1.8" ED    | 12                                                     |                         | 1/1.8"            | f/1.8-f/11     | 100                                       | ∞                                         |    |        |                                           |                                           |
| 93ACC0289                     | LNM 007-021 CM 16MM VF1.8 1/1.8" ED    | 16                                                     |                         | 1/1.8"            | f/1.8-f/11     | 200                                       | ∞                                         |    |        |                                           |                                           |
| 93ACC0290                     | LNM 009-031 CM 25MM VF1.85 1/1.8" ED   | 25                                                     |                         | 1/1.8"            | f/1.85-f/16    | 200                                       | ∞                                         |    |        |                                           |                                           |
| 93ACC0292                     | LNM 030-011 CM 35MM VF1.85 1/1.8" ED   | 35                                                     |                         | 1/1.8"            | f/1.85-f/16    | 200                                       | ∞                                         |    |        |                                           |                                           |
| 93ACC0343                     | LNM 011-042 CM 50MM VF2 2/3" AZ        | 50                                                     |                         | 2/3"              | f/2-f/32       | 400                                       | ∞                                         |    |        |                                           |                                           |
| P/N                           | DESCRIPTION                            | INCLUDES ILLUMINATOR, STANDARD COVER, ADAPTER, BRACKET |                         |                   |                |                                           |                                           |    |        |                                           |                                           |
|                               |                                        | 36 LED Very High Power                                 | 72 LED Ultra High Power | RED               | BLU            | WHT                                       | IR                                        | UV | Aiming | Illuminator adapter                       | Mounting Bracket                          |
| 93ACC0391                     | KIT LTM 002-001 S36L 120D WHT white NL | x                                                      |                         |                   |                | x                                         |                                           |    | cross  | 93ACC0281 included in the illuminator KIT | 93ACC0283 included in the illuminator KIT |
| 93ACC0356                     | KIT LTM 002-601 S36L 60D WHT white     | x                                                      |                         |                   |                | x                                         |                                           |    | cross  |                                           |                                           |
| 93ACC0357                     | KIT LTM 002-451 S36L 45D WHT white     | x                                                      |                         |                   |                | x                                         |                                           |    | cross  |                                           |                                           |
| 93ACC0393                     | KIT LTM 522-451 SA36L 45D WHT white    | x                                                      |                         |                   |                | x                                         |                                           |    | grid   |                                           |                                           |
| 93ACC0394                     | KIT LTM 002-351 S36L 35D WHT white     | x                                                      |                         |                   |                | x                                         |                                           |    | cross  |                                           |                                           |
| 93ACC0395                     | KIT LTM 002-151 S36L 15D WHT white     | x                                                      |                         |                   |                | x                                         |                                           |    | cross  |                                           |                                           |
| 93ACC0396                     | KIT LTM 002-000 S36L 120D RED 625nm NL | x                                                      |                         | x                 |                |                                           |                                           |    | cross  |                                           |                                           |
| 93ACC0397                     | KIT LTM 002-600 S36L 60D RED 625nm     | x                                                      |                         | x                 |                |                                           |                                           |    | cross  |                                           |                                           |
| 93ACC0398                     | KIT LTM 002-450 S36L 45D RED 625nm     | x                                                      |                         | x                 |                |                                           |                                           |    | cross  |                                           |                                           |
| 93ACC0399                     | KIT LTM 002-350 S36L 35D RED 625nm     | x                                                      |                         | x                 |                |                                           |                                           |    | cross  |                                           |                                           |
| 93ACC0400                     | KIT LTM 002-150 S36L 15D RED 625nm     | x                                                      |                         | x                 |                |                                           |                                           |    | cross  |                                           |                                           |
| 93ACC0358                     | KIT LTM 002-002 S36L 120D BLU 475nm NL | x                                                      |                         |                   | x              |                                           |                                           |    | cross  |                                           |                                           |
| 93ACC0359                     | KIT LTM 002-602 S36L 60D BLU 475nm     | x                                                      |                         |                   | x              |                                           |                                           |    | cross  |                                           |                                           |
| 93ACC0360                     | KIT LTM 002-452 S36L 45D BLU 475nm     | x                                                      |                         |                   | x              |                                           |                                           |    | cross  |                                           |                                           |
| 93ACC0361                     | KIT LTM 002-352 S36L 35D 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   | x                                                      |                         |                   |                |                                           | x                                         |    | cross  |                                           |                                           |
| 93ACC0363                     | KIT LTM 002-453 S36L 45D IR 850nm      | x                                                      |                         |                   |                |                                           | x                                         |    | cross  |                                           |                                           |
| 93ACC0402                     | KIT LTM 002-353 S36L 35D IR 850nm      | x                                                      |                         |                   |                |                                           | x                                         |    | cross  |                                           |                                           |
| 93ACC0403                     | KIT LTM 002-253 S36L 25D IR 850nm      | x                                                      |                         |                   |                |                                           | x                                         |    | cross  |                                           |                                           |
| 93ACC0364                     | KIT LTM 002-004 S36L 130D UV 365nm NL  | x                                                      |                         |                   |                |                                           |                                           | x  | cross  |                                           |                                           |
| 93ACC0368                     | KIT LTM 034-601 S72L 60D WHT white     |                                                        | x                       |                   |                | x                                         |                                           |    | 2 spot | 93ACC0284 included in the illuminator KIT |                                           |
| 93ACC0369                     | KIT LTM 034-351 S72L 35D WHT white     |                                                        | x                       |                   |                | x                                         |                                           |    | 2 spot |                                           |                                           |
| 93ACC0370                     | KIT LTM 034-151 S72L 15D WHT white     |                                                        | x                       |                   |                | x                                         |                                           |    | 2 spot |                                           |                                           |
| 93ACC0365                     | KIT LTM 034-602 S72L 60D BLU 475nm     |                                                        | x                       |                   | x              |                                           |                                           |    | 2 spot |                                           |                                           |
| 93ACC0366                     | KIT LTM 034-352 S72L 35D BLU 475nm     |                                                        | x                       |                   | x              |                                           |                                           |    | 2 spot |                                           |                                           |
| 93ACC0367                     | KIT LTM 034-152 S72L 15D BLU 475nm     |                                                        | x                       |                   | x              |                                           |                                           |    | 2 spot |                                           |                                           |
| P/N                           | DESCRIPTION                            | ILLUMINATOR (INCLUDES STANDARD COVER)                  |                         |                   |                |                                           |                                           |    |        |                                           |                                           |
|                               |                                        | 36 LED Very High Power                                 | 72 LED Ultra High Power | RED               | BLU            | WHT                                       | IR                                        | UV | Aiming | Illuminator Adapter                       | Mounting Bracket                          |
| 93ACC0294                     | LTM 002-001 S36L 120D WHT white NL     | x                                                      |                         |                   |                | x                                         |                                           |    | Cross  | Not included in the illuminator box       |                                           |
| 93ACC0298                     | LTM 002-601 S36L 60D WHT white         | x                                                      |                         |                   |                | x                                         |                                           |    | Cross  |                                           |                                           |
| 93ACC0302                     | LTM 002-451 S36L 45D WHT white         | x                                                      |                         |                   |                | x                                         |                                           |    | Cross  |                                           |                                           |
| 93ACC0329                     | LTM 522-451 SA36L 45D WHT white        | x                                                      |                         |                   |                | x                                         |                                           |    | Grid   |                                           |                                           |
| 93ACC0306                     | LTM 002-351 S36L 35D WHT white         | x                                                      |                         |                   |                | x                                         |                                           |    | Cross  |                                           |                                           |
| 93ACC0354                     | LTM 002-151 S36L 15D WHT white         | x                                                      |                         |                   |                | x                                         |                                           |    | Cross  |                                           |                                           |
| 93ACC0293                     | LTM 002-000 S36L 120D RED 625nm NL     | x                                                      |                         | x                 |                |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0297                     | LTM 002-600 S36L 60D RED 625nm         | x                                                      |                         | x                 |                |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0301                     | LTM 002-450 S36L 45D RED 625nm         | x                                                      |                         | x                 |                |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0305                     | LTM 002-350 S36L 35D RED 625nm         | x                                                      |                         | x                 |                |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0353                     | LTM 002-150 S36L 15D RED 625nm         | x                                                      |                         | x                 |                |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0295                     | LTM 002-002 S36L 120D BLU 475nm NL     | x                                                      |                         |                   | x              |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0299                     | LTM 002-602 S36L 60D BLU 475nm         | x                                                      |                         |                   | x              |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0303                     | LTM 002-452 S36L 45D BLU 475nm         | x                                                      |                         |                   | x              |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0307                     | LTM 002-352 S36L 35D BLU 475nm         | x                                                      |                         |                   | x              |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0355                     | LTM 002-152 S36L 15D BLU 475nm         | x                                                      |                         |                   | x              |                                           |                                           |    | Cross  |                                           |                                           |
| 93ACC0296                     | LTM 002-003 S36L 90D IR 850nm NL       | x                                                      |                         |                   |                |                                           | x                                         |    | Cross  |                                           |                                           |
| 93ACC0300                     | LTM 002-453 S36L 45D IR 850nm          | x                                                      |                         |                   |                |                                           | x                                         |    | Cross  |                                           |                                           |
| 93ACC0304                     | LTM 002-353 S36L 35D IR 850nm          | x                                                      |                         |                   |                |                                           | x                                         |    | Cross  |                                           |                                           |
| 93ACC0308                     | LTM 002-253 S36L 25D IR 850nm          | x                                                      |                         |                   |                |                                           | x                                         |    | Cross  |                                           |                                           |
| 93ACC0309                     | LTM 002-004 S36L 130D UV 365nm NL      | x                                                      |                         |                   |                |                                           |                                           | x  | Cross  |                                           |                                           |
| 93ACC0332                     | LTM 034-601 S72L 60D WHT white         |                                                        | x                       |                   |                | x                                         |                                           |    | 2 Spot |                                           |                                           |
| 93ACC0336                     | LTM 034-351 S72L 35D WHT white         |                                                        | x                       |                   |                | x                                         |                                           |    | 2 Spot |                                           |                                           |
| 93ACC0340                     | LTM 034-151 S72L 15D WHT white         |                                                        | x                       |                   |                | x                                         |                                           |    | 2 Spot |                                           |                                           |
| 93ACC0331                     | LTM 034-602 S72L 60D BLU 475nm         |                                                        | x                       |                   | x              |                                           |                                           |    | 2 Spot |                                           |                                           |
| 93ACC0335                     | LTM 034-352 S72L 35D BLU 475nm         |                                                        | x                       |                   | x              |                                           |                                           |    | 2 Spot |                                           |                                           |
| 93ACC0339                     | LTM 034-152 S72L 15D BLU 475nm         |                                                        | x                       |                   | x              |                                           |                                           |    | 2 Spot |                                           |                                           |



## Matrix 320 800-030

Sensor  
8 = 5MP

Interface  
3 = Gigabit Ethernet (GIGE)



## LNM 0XX-0XX

Focal length  
03 = 8mm  
05 = 12mm  
07 = 16mm  
09 = 25mm  
10 = 35mm  
11 = 50mm

Min F number  
2 = F1.8  
3 = F1.85  
4 = F2

Lens Type  
1 = Edmund  
2 = Azure



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

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



## LTM XXX-XXX

Aiming type  
0 = cross aiming  
2 = grid aiming  
3 = 2 spot aiming

Illuminator size  
2 = 36 LED  
4 = 72 LED

Illuminator LED lens aperture  
15 = ultra narrow (15D)  
35 = narrow (35D)  
45 = narrow (45D)  
60 = wide (60D)  
120 = ultra wide (120D)

Color  
0 = red  
1 = white  
2 = blue  
3 = IR  
4 = UV

# ILLUMINATORS

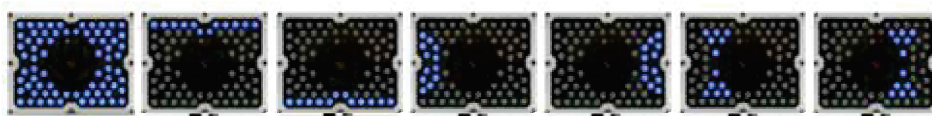
## 36 LED VHP ILLUMINATOR COLORS AND LED CHAIN CONFIGURATION

| Lights ON                                  | LEDs COLOR  |
|--------------------------------------------|-------------|
| All Chains                                 | White, Blue |
| Top Left                                   | White, Blue |
| Top right                                  | White, Blue |
| Bottom left                                | White, Blue |
| Bottom right                               | White, Blue |
| Left                                       | White, Blue |
| Right                                      | White, Blue |
| Any combination of the above chain options | White, Blue |



## 72 LED UHP ILLUMINATOR COLORS AND LED CHAIN CONFIGURATION

| Lights ON            | LEDs COLOR  |
|----------------------|-------------|
| Top                  | White, Blue |
| Bottom               | White, Blue |
| Left                 | White, Blue |
| Right                | White, Blue |
| Internal Left Chain  | White, Blue |
| Internal Right Chain | White, Blue |



## 360 DEGREE VISUAL FEEDBACK DEFAULT COLOR

| Default configuration | LEDs COLOR |
|-----------------------|------------|
| Good Read             | Green      |
| No Read               | Red        |
| Configuration         | Blue       |



# ACCESSORIES

| CATEGORY | PART NUMBER | DESCRIPTION                                             |
|----------|-------------|---------------------------------------------------------|
| CABLE    | 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)                       |
|          | 93A050122   | M12-IP67 GIGA Ethernet Cable X-Coded (1M)               |
|          | 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)              |
|          | 93A050129   | Adapter Cable GIGA Ethernet X-Coded to Ethernet D-Coded |
|          | 93ACC0268   | Serial RS232 to USB HID E Keybrd Converter Cbl          |
|          | 93A050141   | Adapter Cable FULL GIGA Ethernet X-Coded M12 to RJ45    |
|          | 93A050033   | CAB-LP-03 LIGHTING POWER 3M                             |
|          | 93A050037   | CAB-LP-05 LIGHTING POWER 5M                             |
|          | 93A050076   | CAB-GD03 M12 F/L 3M                                     |
| COVER    | 93A050077   | CAB-GD05 M12 F/L 5M                                     |
|          | 93A050078   | CAB-GD10 M12 F/L 10M                                    |
|          | 93ACC0272   | Cover STD LT 36L M320/P2                                |
|          | 93ACC0341   | Cover STD LT 72L M32                                    |
|          | 93ACC0274   | Cover Polarizer LT 36L M320/P2                          |
|          | 93ACC0342   | Cover Polarizer LT 72L M320                             |
| FILTER   | 93ACC0279   | Cover Lens and CM Base Short                            |
|          | 93ACC0280   | Cover Lens and CM Base Long                             |
|          | 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 Longpass 415 LT 36L M320/P2               |
| BRACKET  | 95A900022   | Filter YAG Cut LT 36L M320/P2                           |
|          | 93ACC0283   | BK-32-010 PIVOT FIX BRACKET M320/P2 BODY                |
|          | 93ACC0284   | BK-32-020 FAST REPLACEMENT BRACKET M320                 |



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