



M SERIES

area scan cameras for industrial and research environments

M-Series

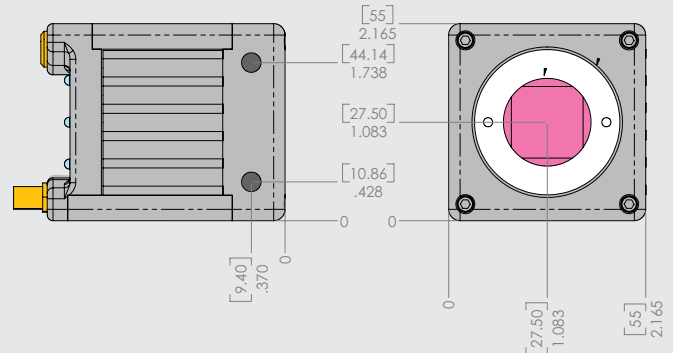
The M-series comprises two configurations of area scan cameras which are designed for use in industrial and research environments. The M-3 features a 1.3 Million pixel sensor delivering over 500 fps via a standard Camera Link® interface, whereas the M-5 provides a very high resolution image with 4 Million pixels and sustained rates over 150 fps. The camera electronics are packaged in a very compact and rugged housing capable of withstanding high-G forces and vibration.

Image capture to a computer system is done via a full camera link frame grabber.* To ensure the best possible performance and ease of use the M-series have seamlessly integrated to operate with the MotionPro X software suite. The MotionPro X suite and SDK integrates the M-series in a single software platform with IDT X-series, and Redlake MotionXtra camera systems.

The camera benefits of such features such as pre and post triggering for event capture, circular buffering, external synchronization and flexible choice of ROI. When very long record times are required this compact camera system is configured with a dedicated disk array system.

This flexible and compact camera system is well suited for a variety of vision inspection applications as well as for R&D laboratory usage.

**supported frame grabbers:*
 Coreco
 National Instruments
 Epix



Key features:

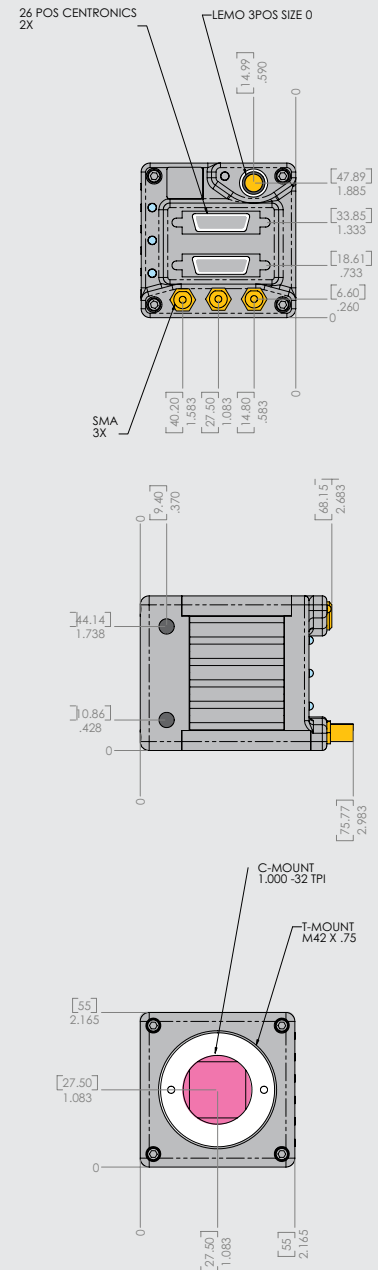
- Compact and rugged solution for use in harsh environments**
- Direct streaming of 1.3 Mega pixel images at over 500 frames per second**
- Circular buffering with pre and post triggering for event capture**
- External triggering and synchronization**
- Fully integrated with MotionPro X imaging suite**



Technical Data

| | M-3 | M-5 |
|----------------------------|---|---|
| Sensor Size (H x V pixels) | 1280 x 1024 | 2352 x 1758 |
| Sensor Type | Progressive Scan CMOS | Progressive Scan CMOS |
| Size (Diagonal) | 19.67 mm | 20.55 mm |
| Pixel Size | 12.0 μm x 12.0 μm | 7.0 μm x 7.0 μm |
| Pixel Clock | 72 MHz | 40 MHz |
| Frame Rate | 520 frames/s | 150 frames/s |
| Color / Mono | Color or Mono | Color or Mono |
| Video Output Type | Camera Link (full) | Camera Link (full) |
| Video Data Output Modes | 10 taps 8 bits each | 10 taps 8 bits each |
| Synchronization | Internal clock or via external TTL input | Internal clock or via external TTL input |
| Exposure Control | Internal or pulse-high or pulse-low level-controlled via external TTL input | Internal or pulse-high or pulse-low level-controlled via external TTL input |
| Power Requirements | 12 VDC (+/- 10%) Max. 6.0 W | 12 VDC (+/- 10%) Max. 6.0 W |
| Lens Mount | c-Mount | c-Mount |

| | | |
|---|--------------|--------------|
| Housing Size (L x W x H in mm) including connectors | 75 x 55 x 55 | 75 x 55 x 55 |
| Weight | Max. 320 g | Max. 320 g |
| Conformity | CE, FCC | CE, FCC |



all dimensions shown in mm



NORTH AMERICA
 1804 Miccosukee Commons
 Drive, Suite 208
 Tallahassee, FL 32308
 United States
 P: (+001) 850-222-5939
 F: (+001) 850-222-4591

EUROPE
 via Pennella, 94
 I-38057 - Pergine Valsugana
 (TN)
 Italy
 P: (+39) 0461-53.21.12
 F: (+39) 0461-53.21.04

www.idtvision.com

ASIA
 Unit 6, 9F, 77, Hun Hua S. Road
 Section 2, Taipei, Taiwan
 Tel: (+02) 2706-2110
 Fax: (+02) 2706-3837

No.388, Caonong Road,
 Songjiang Industry Zone,
 Shanghai, China
 Zip Code: 201612
 Tel: (+86) 21-57687667
 Fax: (+86) 21-57686418

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