



Single Camera

SpeedSpection

High Speed Recording Systems



Features at a Glance

- Complete turnkey system
- Multiple options to fit your application
- Up to **25 MP** resolution in mono or color
- Frame rates up to **500 fps** at native resolution and up to **35,000 fps** at reduced resolutions
- Up to **43 min** of continuous recording time at full resolution and frame rate
- Options available for cost-efficient solutions
- Small cameras for portable use
- I/O management for trigger and outputs

Fields of Applications

- Missile Analysis
- Fragment Tracking
- Tire Testing
- Vibrational Analysis
- Animal Studies
- Sports
- Machine Optimization
- Biomedical
- High Speed Image Analysis



| Option 1 | | Option 2 | | Option 3 | |
|-------------|------------|-------------|------------|-------------|------------|
| Resolution | Frame Rate | Resolution | Frame Rate | Resolution | Frame Rate |
| 2448 x 2048 | 77 fps | 4096 x 3000 | 64 fps | 5120 x 5120 | 80 fps |
| 2448 x 1024 | 154 fps | 4096 x 2160 | 88 fps | 4096 x 3072 | 160 fps |
| 1900 x 1200 | 167 fps | 2448 x 2048 | 144 fps | 2336 x 1728 | 563 fps |
| 1900 x 600 | 334 fps | 2048 x 2048 | 180 fps | 1920 x 1080 | 900 fps |
| 1280 x 1024 | 222 fps | 2048 x 1088 | 338 fps | 1024 x 768 | 1,260 fps |
| 1280 x 512 | 444 fps | 2048 x 544 | 676 fps | 640 x 480 | 2,020 fps |
| 1280 x 256 | 888 fps | 2048 x 272 | 1352 fps | 128 x 128 | 7,490 fps |

Camera Specifications (more details are available upon request)

| | | | | | |
|------------------|-----------------|------------------|------------------|------------------|------------------|
| Sensor | 1/2", 2/3" CMOS | Sensor | 2/3", 1" CMOS | Sensor | 4/3", 35 mm CMOS |
| Pixel Size | 4.8, 3.5 um | Pixel Size | 5.5, 3.5 um | Pixel Size | 4.5 x 4.5 um |
| Interface | USB3 | Interface | 10 GigE | Interface | CoaXpress |
| Optical Mount | C-mount | Optical Mount | C-mount | Optical Mount | C-mount |
| Size | 29 x 29 x 38 mm | Size | 135 x 76 x 60 mm | Size | 80 x 80 x 66 mm |
| Weight | 90 g | Weight | 90 g | Weight | 540 g |
| Protection Class | IP40 | Protection Class | IP40 | Protection Class | IP40 |
| Power | 5 VDC | Power | 24 VDC | Power | 24 VDC |

Computer Specifications (more details are available upon request)

| | | | | | |
|---------------|--|---------------|--|---------------|---|
| Processor | Intel E3845 Quad-core | Processor | Intel Core i5-3610ME | Processor | Intel Core i7-3610QE |
| Memory | 16 GB DDR3L | Memory | 16 GB DDR3 (20 s continuous recording) | Memory | 32 GB DDR3 (15 s continuous recording) |
| Storage | 500 GB (21.5 min rec. time) 1 TB (43 min rec. time) | Storage | 1 TB (21.2 min rec. time) 2 TB (42 min rec. time) | Storage | 1 TB (8 min rec. time) 2 TB (16 min rec. time) |
| I/O Interface | 3x USB 3.0 1x USB 2.0 2x GigE ports | I/O Interface | 4x USB 3.0 4x USB 2.0 5x GigE ports | I/O Interface | 4x USB 3.0 4x USB 2.0 5x GigE ports |
| Size | 149 mm x 105 mm x 53 mm | Size | 240 mm x 225 mm x 89.7 mm | Size | 240 mm x 225 mm x 89.7 mm |
| Weight | 1.1 kg | Weight | 4.4 kg | Weight | 4.4 kg |
| Power | Built in 8~35V DC input | Power | Built in 8~25V DC input | Power | Built in 8~25V DC input |

System Scope

Camera (defined by option)
 Lens (defined by option/application requirements)
 Computer (defined by option)
 Recording software w/ manual and documentation
 Cable for camera connection
 Power Supply

Optional

Lighting
 Memory Expansion
 Transport Case
 I/O-adaptor cable w/ BNC plugs
 Cable Extensions

Pyramid Imaging, Inc. is a Franchise Authorized Distributor Value Added Reseller (VAR), Integrator, and Original Equipment Manufacturer (OEM) for video imaging components and systems ISO9001/AS9120 certified. Our customers use our products for inspection, high speed analysis, automated controls, high end surveillance, anywhere that video images need to be acquired, processed, and analyzed.

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