



## High Speed Camera Systems – designed for harsh environments

**S-Blast and Q-Blast from AOS Technologies capture up to 1000 frames per second in HD.**

Digital high-speed video and image analysis software is used to accurately quantify each blast to determine errors in blast practice and further areas of poor performance. The use of high-speed video allows the blaster to instantly review processes so that future blasts can be quickly and appropriately modified to deliver improved blasting performance and reduce costs. Typical framing speeds of 500–1000 frames per second (fps) capture one picture per millisecond to determine detonator timings, fragmentation, venting, fume generation and flyrock data associated with the blast. If required, the AOS S-Blast or Q-Blast can capture up to 100,000 frames per second.

### Unique features

- **Small compact and battery operated** – fits in the palm of your hand without any additional cabling.
- **Designed for harsh environments. Sealed camera** – Camera is protected and ready to use in environments where dust and debris is present.
- **Extended temperature range** – S-Blast and Q-Blast operate from -40 °C / +55 °C (-40 °F / +130 °F)

# S-Blast / Q-Blast – Key Specifications

## Camera models

|                | Q-Blast   | S-Blast  |
|----------------|---|--|
| Resolution     | 1696 x 1710 to 500 fps standard   | 1280 x 1024 @ 500 fps  |
| Format         | Standard - 1696 x 1710 to 500 fps<br>Optional - up to 100'000 fps<br>HD - 1920 x 1080 to 1000 fps | Basic - 1280 x 1024 to 500 fps<br>Full - up to 16'500 fps          |
| Recording Time | Up to 7.2 sec<br>depending on memory size   | Up to 16 sec<br>depending on memory size                           |
| Dynamic        | Up to 10 Bit with HDR<br>(High Dynamic Range)   | Up to 12 Bit with HDR<br>(High Dynamic Range)                      |
| Lens           | Standard C- and F-Mount   | Standard C- and F-Mount  |
| Mounting       | ¼" and 3/8" for tripod mounting   | ¼" and 3/8" for tripod mounting                                    |
| Battery        | Re-chargeable NiMH battery inside<br>for up to 2 hrs of operation.                                | Re-chargeable NiMH battery inside<br>for up to 3 hrs of operation. |
| Interface      | Gigabit Ethernet interface  | Gigabit Ethernet interface   |
| Trigger        | Trigger input<br>for multiple trigger devices   | Trigger input<br>for multiple trigger devices                      |
| Flash Card     | Up to 128 GB built-in flash card<br>optional  | Up to 128 GB built-in flash card<br>optional                       |
| Size           | 71 x 71 x 145 mm  | 71 x 71 x 145 mm   |
| Weight         | 1.2 kg  | 1.2 kg   |



## Motion analysis details

|          |   |
|----------|---|
| Tracking | 2D Automatic tracking of up to 5 points<br>Manual tracking<br>Interpolation of hidden point   |
| Analysis | Displacement<br>Velocity and acceleration<br>Angles between points<br>Distances between point |
| Diagram  | Timetable<br>x/t diagram<br>x/y diagram   |
| Export   | Export of diagrams and images to Word and Excel   |

## Your benefits

- AOS has a proven track record of designing cameras for outdoor field tests
- Reliable and proven design for harsh and dusty environments
- Worldwide service & support over lifetime
- Designed and built in Switzerland. Highest quality available

## Options and accessories

|                            |  |
|----------------------------|--|
| External Battery           | External battery pack with charged for up to 5 hrs operation<br>(connects to camera via solid lockable cable)  |
| Controller                 | Rugged MIL810 certified controller with sunlight readable touch display  |
| Trigger Devices            | Trigger devices for trigger recording on sound<br>Light barriers<br>Remote cable trigger for up to 100 m (300 feet)<br><br>Contact us for specific needs |
| Lenses                     | Various lenses for different views   |
| Lens Mount                 | Different lens mount adapters available such as for Nikon F-Mount  |
| Extended Temperature Range | -45 °C to 55 °C  |
| Humidity                   | Anti-Humidity and Fungus coating of electronic parts (MIL I 46058C)  |

Contact us at [www.aostechnologies.com](http://www.aostechnologies.com)

Your local AOS partner:

