LARGER VOLUMES
With its wide 56° square FOV, 96 IR LED’s, and scalability up to 96 cameras, the S250e can capture volumes of 50’ x 50’ and beyond.

HIGH SPEED CAPTURE
Precisely track fast moving objects, like UAVs and golf clubs, with the S250e’s global shutter imager and 250 FPS capture speed.

WORLD CLASS LENSES
We custom design our own super low distortion, high illuminance lenses. Our “fast glass” dramatically increases camera range and capture volumes.

REFERENCE VIDEO
Any of your S250e capture cameras can also operate in full frame grayscale, for flexible reference video that’s calibrated into your mocap system.

ON-CAMERA AIM ASSIST
One person can efficiently setup their system with our on-camera Aim Assist. Activate your camera for aiming with one button press on the back of the camera.

FILTER SWITCHER
Move from visible to infrared imaging with a single mouse-click, enabled with FS technology.

ON-BOARD PROCESSING
Our heralded real time, on-camera image analysis delivers clean, reliable data to your PC with minimal demands on your CPU for efficient system scaling.

CAMERA CONTROL
Control exposure, frame rate, resolution, image processing mode, LED intensity, and more directly from the application UI.

FREE CAMERA SDK
Integrate S250e cameras into your custom tracking and vision applications with the free Camera SDK, which offers a simple C++ interface.
### TECHNICAL SPECIFICATIONS

#### CAMERA BODY
- Width: 3.19 inches (81 mm)
- Height: 3.15 inches (80 mm)
- Depth: 2.66 inches (67.6 mm)
- Weight: 15.2 ounces (0.43 kg)
- Mounting: 1/4"-20 tripod thread
- Status Indicator:
  - 2 digit numeric LEDs
  - 1 internal LED

#### IMAGE SENSOR
- Resolution: 832 × 832 (0.7 MP)
- Frame Rate: 30-250 FPS (adjustable)
- Accuracy: Sub-millimeter
- Latency: 4 ms
- Shutter Type: Global
- Shutter Speed:
  - Default: 500 µs (0.5 ms)
  - Minimum: 10 µs (0.01 ms)
  - Maximum:
    - 7,800 µs (7.8 ms) at 125 FPS
    - 3,800 µs (3.8 ms) at 250 FPS

#### IMAGE PROCESSING TYPES
- Object (Centroids)
- Precision (Grayscale)
- Segment (Thresholded)
- MJPEG Grayscale (up to 125 FPS)
- Raw Grayscale

#### LENS & FILTER
- Default Lens: 5.5mm F#1.8
  - FOV: 56°
- Optional Lens: 8 mm F#1.8
  - FOV: 43°
- M12 Lens Mount
- Adjustable focus w/ spring assist
- 800 nm IR pass filter w/ Filter Switcher

#### LED RING
- 96 LEDs
- 850 nm IR
- Adjustable brightness
- Strobe or continuous illumination
- Removable

#### INPUT/OUTPUT & POWER
- Data: Ethernet (100BASE-T)
- Camera Sync: Ethernet
- Power: PoE

#### SYSTEM REQUIREMENTS
- Windows XP/Vista/7
- 1GHz processor
- 1GB of RAM
- 50MB of available disk space
- Ethernet connection
- 1 PoE Ethernet Switch port per camera (with full 15.4 watts at 44 volts per port)

#### IN THE BOX
- 1 S250e camera (part number: S250e)
- 1 Quick start guide