



S250e



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.

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-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.

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.

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.

CAMERA CONTROL

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

WORLD CLASS LENSES

We custom design our own super low distortion, high illuminance lenses. Our "fast glass" dramatically increases camera range and capture volumes.

FILTER SWITCHER

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

FREE CAMERA SDK

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

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

