

MERCURY CAMERA SYSTEM

MEDIUM TO LONG RANGE CAMERA SYSTEM

Quickset's Mercury camera system is the perfect solution for capturing video at medium ranges.

The system is a purposebuilt package with a mid wave infrared (MWIR) sensor using a continuous zoom 550mm or 785mm optic along with either a 500mm or 800mm continuous zoom near infrared (NIR) sensitive day/night camera.

The Mercury is precision designed to meet vast speed range needs. High speeds allow for rapid target acquisition, while very slow speeds keep the target centered in the frame while at the edge of the optics capabilities.

Leveraging 30+ years of system integration experience, Quickset has successfully deployed thousands of systems to support critical requirements worldwide.



KEY FEATURES

SYSTEM PERFORMANCE

- Reliable, repeatable positioning (0.05°)
- Wide operating temperature (-32° to +55°C)
- Built for rugged environments
- Video tracking available

VISIBLE CAMERA FEATURES

- Auto focus
- HD imagery and optics
- NIR correct optics
- Fog and haze mitigation
- Excellent low-light performance

THERMAL CAMERA FEATURES

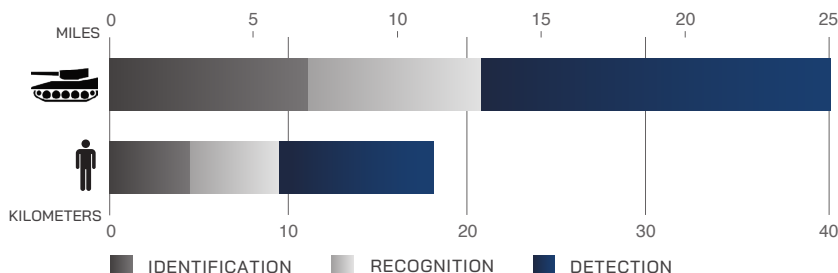
- Cooled 3 to 5 μ m MWIR detector
- Continuous zoom optics
550: (30 to 550 mm)
785: (44 to 785 mm)
- Auto focus
- Edge and contrast enhancement

MERCURY CAMERA SYSTEM : SPECIFICATIONS



MERCURY 550 MR

THERMAL CAMERA RANGE PERFORMANCE



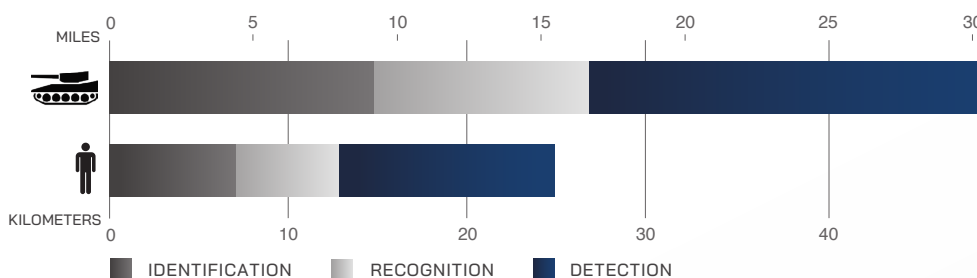
50% Probability DRI; Target 2 degree delta T vs background; Clear Atmosphere/Low Turbulence. Actual range performance may vary based on a number of conditions.

SPECIFICATIONS

Focal Length/F#	30 to 550mm; F4.0
Sensor	640 x 512 pixels, 15µm pitch
Spectral Band	3 to 5µm
Field of View	18° (wide) to 1° (tele)
Features	Auto Focus, Sharpness, AGC, Level Controls
Video Output	IP Video or SD-SDI

MERCURY 785 MR

THERMAL CAMERA RANGE PERFORMANCE



50% Probability DRI; Target 2 degree delta T vs background; Clear Atmosphere/Low Turbulence. Actual range performance may vary based on a number of conditions.

SPECIFICATIONS

Focal Length/F#	44 to 785mm; F4.0
Sensor	1280 x 1024 pixels, 10µm pitch
Spectral Band	3 to 5µm
Field of View	16.6° (wide) to 0.9° (tele)
Features	Auto Focus, Sharpness, AGC, Level Controls
Video Output	IP Video or HD-SDI

VISIBLE CAMERA PERFORMANCE SPECIFICATIONS

	500mm Package	800mm Package
Lens	15.6 to 500mm (32x), F3.9 to F16	20 to 800mm (40x), F4 to F16
Sensitivity	0.095 lux (F3.9 AGC:Max), 0.0031 lux (Integrated Mode)	0.0017 lux (F4.0)
Sensor	1/1.9 in, 16x9, 2.38 Megapixel CMOS Sensor, NIR Sensitive	1/1.8 in, 16x9, 2.1 Megapixel CMOS Sensor, NIR Sensitive
Features	Day/Night/NIR Corrected Lens with Black Glass, Auto Focus, Optional: Fog Mitigation, and Adaptive Fog Reduction	Day/Night/NIR Corrected Lens with Black Glass, Auto Focus, Heat Haze and Fog Reduction, and Optical Image Stabilization
Video Output	IP Video or HD-SDI	
Housing	Aluminum Housing with HD Glass	

MERCURY CAMERA SYSTEM : SPECIFICATIONS



SYSTEM PERFORMANCE

Operating Voltage Range	24 to 28 VDC; 24 VDC Nominal
System Azimuth Range	360° continuous rotation
Azimuth Speed	0.005° to 100°/sec
Tilt-Axis Range	+/- 90° from Horizon
Tilt-Axis Speed	0.005° to 100°/sec
Operating Temperature	-32° to +55°C (-25.6° to +131°F), No heater in this system
Positioner Resolution	Encoders (0.01° readout)
Repeatability	0.05°
System Control	Serial (RS232/422) or TCP/IP Ethernet
Health & Usage Monitoring	Duty cycle reading, axis odometers, CPU temperature, voltage and current measurements
Positioner Communication Protocol	Quickset PTZ or Pelco D
Video Connection	Dual HD-SDI, IP Video Optional
Video Compression	Encoding available. Specifics depend upon system configuration.
Available Colors	White, custom colors available upon request

OPTIONAL ELECTRONICS INTERFACE BOX

Voltage in/out	100 to 240 VAC in, 24 VDC out
Current Draw	10 A
Operational Temperature	-32° to +55° (-25.6° to +131°F)
Environmental	IP65
Features	Optional tracking, internal video encoder, network switch, circuit breaker and addressable relay for remote power cycling

OPTIONAL VIDEO TRACKING

Multi-Algorithm Tracking Located within Electronics Interface Box
User Selectable Tracking Modes for Improved Target Acquisition and Retention
Multi-Target Detection, Acquisition and Track within FOV
Robust Intrusion Detection, Coast and Target Recovery
Advanced Motion Compensation Filter
Zoom Lens Scaling and Correction
User Text Annotation and Graphics



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