

TAURUS®-R CAMERA SYSTEM LONG RANGE SURVEILLANCE



Quickset's Taurus-R camera systems are optimized for the harshest mobile and stationary applications. Chassis reinforcements coupled with a decades-proven drivetrain allow for precise control of long range optics, giving critical intel to forward operators.

The stationary central turret allows for co-located radar or other devices to move independent of the optics packages.

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
- Provisions for co-located radar
- Dual HD-SDI output

Visible Camera Features

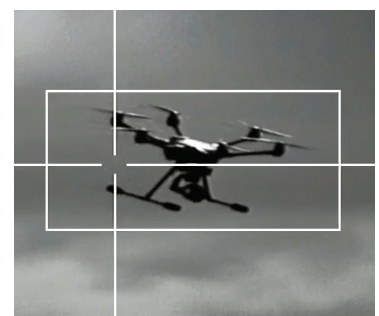
- Auto focus
- HD imagery and optics
- NIR correct optics
- Fog and haze mitigation
- Excellent low-light performance

Thermal Camera Features

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

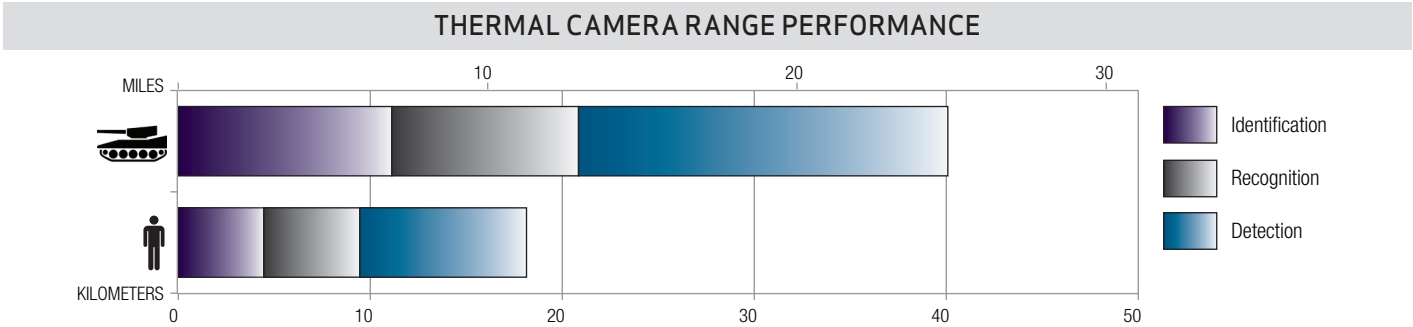
Video Tracking Features (optional)

- Located within electronics interface box
- Selectable edge, mass and intensity centroid, vector and correlation tracking algorithms for target variability
- Multi-Target detection, acquisition and track
- Robust intrusion detection, coast and target recovery
- Advanced motion compensation filter
- Zoom lens scaling and correction
- User text annotation and graphics



TAURUS-R CAMERA SYSTEM

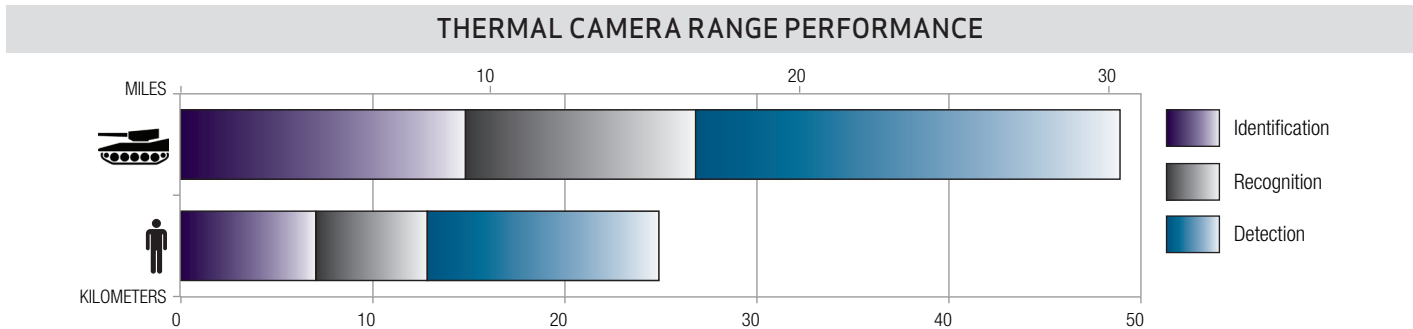
TAURUS-R 550 MR



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.

THERMAL CAMERA PERFORMANCE	
Features	Specifications
Focal Length/F#	30 to 550mm; F4.0
Sensor	640 x 512 pixels, 15 μm pitch
Spectral Band	3 to 5 μm
Field of View	18° (wide) to 1° (tele)
Functions	Auto focus, sharpness, AGC, level controls
Video Output	IP video or SD-SDI

TAURUS-R 785 MR



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.

THERMAL CAMERA PERFORMANCE	
Features	Specifications
Focal Length/F#	44 to 785mm; F4.0
Sensor	1280 x 1024 pixels, 10 μm pitch
Spectral Band	3 to 5 μm
Field of View	16.6° (wide) to 0.9° (tele)
Functions	Auto focus, sharpness, AGC, level controls
Video Output	IP video or HD-SDI

SYSTEM PERFORMANCE

Features	Specifications
Operating Voltage Range	24 to 28 VDC; 24 VDC nominal
System Azimuth Range	360° continuous rotation
Azimuth Speed	0.005° to 60°/s at 24 VDC
Tilt-Axis Range	+/- 90° from horizon
Tilt-Axis Speed	0.005° to 60°/s at 24 VDC
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.

ELECTRONICS INTERFACE BOX (OPTIONAL)

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

VISIBLE CAMERA PERFORMANCE

Features	Specifications	
	800mm Package	1000/2000mm Package
		without 2x Extender with 2x Extender
Lens	20 to 800mm (40x), F4 to F16	16.7 to 1000mm (60x), F3.5 to F32 33.4 to 2000mm (60x), F3.5 to F32
Sensitivity	0.0017 lux (F4.0)	0.077 lux (F3.5 AGC:MAX), 0.0026 lux (F3.5, SENSE UP: 30)
Sensor	1/1.8 in, 16x9, 2.1 megapixel CMOS sensor, NIR sensitive	1/1.9 in, 16x9, 2.38 megapixel CMOS sensor, NIR sensitive
Functions	Day/Night/NIR corrected lens with black glass, auto focus, heat haze and fog reduction, and optical image stabilization	Day/Night/NIR corrected lens with black glass, auto focus, fog mitigation, and adaptive fog reduction
Video Output	IP video or HD-SDI	
Housing	Aluminum housing with HD glass	



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