MPT-50 CAMERA SYSTEM

MEDIUM RANGE CAMERA SYSTEM

Quickset's MPT-50 positioner is a versatile and rugged platform, well-suited for medium range optics packages. These systems are configured with mid-wave infrared (MWIR) sensors using continuous zoom 300 mm or 550 mm optics in addition to either a 500 mm or 800 mm continuous zoom near infrared (NIR) sensitive day/night camera.

The MPT-50 leverages a decades-proven drivetrain with Quickset's latest generation of control electronics which includes health and usage monitoring (HUMS), finer velocity control and numerous payload ports for expanded 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

Visible Camera Features

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

Thermal Camera Features

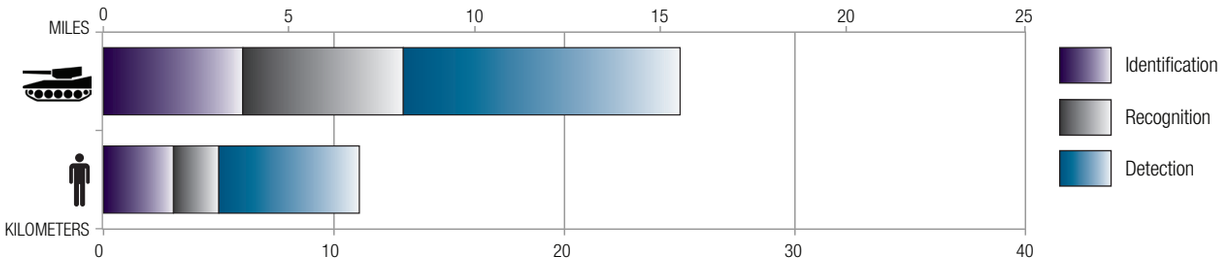
- Cooled 3 to 5 µm MWIR detector
- Continuous zoom optics
  300: (17 to 300 mm)
  550: (30 to 550 mm)
- Auto focus
- Edge and contrast enhancement

QuickSet®
Defense Technologies, LLC

MPT-50 CAMERA SYSTEM

MPT-50 300 MR

THERMAL CAMERA RANGE PERFORMANCE



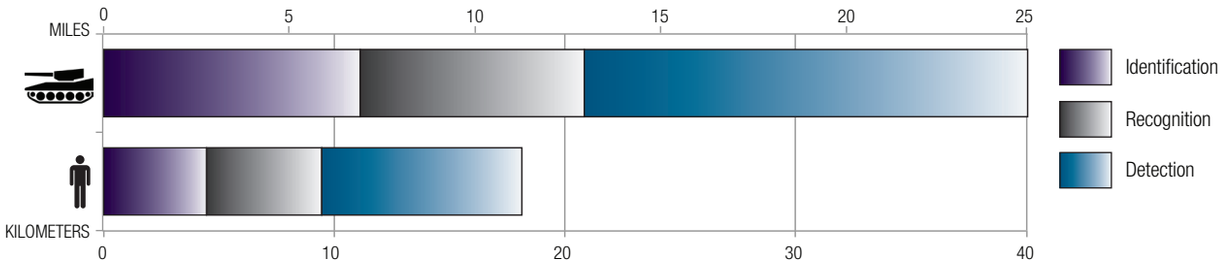
50% Probability DRI; Target 2 degree delta T vs background; Clear Atmosphere/Low Turbulence. Actual range performance may vary based on a number of conditions.

THERMAL CAMERA PERFORMANCE SPECIFICATIONS

Focal Length/F#	17 to 300 mm; F4.0
Sensor	640 x 512 pixels, 15 µm pitch
Spectral Band	3 to 5 µm
Field of View	32° (wide) to 1.8° (tele)
Features	Auto Focus, Sharpness, AGC, Level Controls
Video Output	IP Video or SD-SDI

MPT-50 550 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.

THERMAL CAMERA PERFORMANCE SPECIFICATIONS

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

SYSTEM PERFORMANCE

Operating Voltage Range	24 to 28 VDC; 24 VDC Nominal
System Azimuth Range	360° continuous rotation
Azimuth Speed	0.005° to 50°/sec
Tilt-Axis Range	+/- 90˚ from Horizon
Tilt-Axis Speed	0.005° to 12°/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	HD-SDI, IP Video Optional
Video Compression	Encoding available. Specifics depend upon system configuration.
Available Colors	White, custom colors available upon request.

VISIBLE CAMERA PERFORMANCE SPECIFICATIONS

	500 mm Package	800 mm Package
Lens	15.6 to 500 mm (32x), F3.9 to F16	20 to 800 mm (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, 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	

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