

See First, Understand First, Act First and Finish Decisively.



WatchMaster™ PRO

The DRS WatchMaster™ Pro brings military technology to security and force protection requirements in a small and inexpensive product built to operate in hostile environments. DRS developed the WatchMaster™ Pro modular imaging system based on the DRS 640 x 480 uncooled cameras with multiple lens options. WatchMaster™ Pro embraces high performance in a small package and is designed to be configurable for different applications.

As a system, WatchMaster™ Pro is completely upgradeable with new camera blocks by the user in the field. No other competing product on the market can match the performance and quality of WatchMaster™ Pro.

WatchMaster™ Pro uses the Quickset QPT-LT dual side-mount positioner, which can be configured with single or multiple camera blocks for day and night capability. With exceptional resolution and sensitivity, WatchMaster™ Pro offers 24-hour capability for enhanced situational awareness.



HIGHLIGHTS

- DRS uncooled thermal imaging technology
- Compact/Light weight
- Quick-change camera modules (blocks) with true plug-n-play
- Network controllable or dedicated (Unicom-LT™) controller
- Mobile and invertible
- Full two-way communication
- MIL-STD-810F, IP67 (tested) sealed and pressurized camera housings
- Full range of mounting fixtures



SYSTEM FEATURES

GENERAL

Video Output	RS-170 (NTSC)
Control Interface	RS422/RS485 (IP optional)
Power Consumption	10 - 30 VDC with reverse polarity
Weight	<30 pounds with dual cameras
Size	16.5 x 12.7 x 8.1 inches
Enclosures	IP67, sealed and pressurized camera enclosures; marine resistant paint, bearings and gaskets; stainless steel HW, aluminum housings
Operating Temperature	-32° C to 55° C (-26° F to 131° F)
Pan Range	360° continuous
Pan Speed	0.25° - 100°/seconds
Tilt Range	-90° to + 90° non-continuous
Tilt Speed	0.25° - 60°/seconds
Motor Type/Drive	Steppers with belt drive
Microprocessor Control	32 presets and 2 preset tours

THERMAL CAMERA

Detector	Uncooled Vanadium Oxide (VOx) Microbolometer
Frame Rate	30 Hz
Resolution	640 x 480
Spectral Response	LWIR, 8-12 μm
Thermal Sensitivity	50 mK
HFOV	9°
VFOV	6.9°
Focus	Motorized
Gain/Level	Automatic gain control or manual
Zoom	3X electronic

CCD CAMERA

Narrow FOV	1.6°
WFOV	42°
Zoom	Optical 26X, digital 12X, total 312X
Minimum Illumination	1.0 lux typical

*Specifications subject to change without notice. Export of the commodities described herein is strictly prohibited without a valid export license issued by the U.S. Department of State, Directorate of Defense Trade Controls, prescribed in the International Traffic in Arms Regulations (ITAR), Title 22, Code of Federal Regulation, Parts 120-130.



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