

A Whole New Dimension in Thermal Imaging Performance



WATCHMASTER™ IP ELITE

Utilizing technological advances and expansion into high-volume, low cost manufacturing, DRS brings affordable thermal imaging technology to commercial surveillance and security applications with the WatchMaster™ IP Elite.

With a detection range of up to 1 km, the WatchMaster™ IP Elite employs DRS' proven uncooled 320 x 240, 17 μm VOx thermal imaging technology. Unlike many conventional video surveillance cameras, the WatchMaster™ IP Elite does not require any ambient light or illumination. It detects infrared (heat) waves to provide users with superior thermal images in challenging environments, including complete darkness, over water and in dark corners, where threats are difficult to detect due to lighting constraints and weather conditions.

The camera system is an Internet Protocol (IP) networked solution, conforming to the Open Network Video Interface Forum (ONVIF™) standard and is operational in a networked environment through a central office, remote video management system or through the DRS provided Web interface utility.

With an industry leading low power consumption of less than 15 watts, the WatchMaster™ IP Elite is IEEE802.3af compliant, supporting video, camera control and power over

a single tamper resistant cable connection. As a result, the camera can be configured and installed easily into existing security infrastructure.

Measuring approximately 2025 cm^3 and weighing less than 1500 grams, the WatchMaster™ IP Elite is compact and lightweight. It is sealed to an IP66 outdoor rating, which makes it ideal for outdoor security of critical infrastructure such as airports, utility companies, and nuclear power plants. The camera is available with a choice of three fully sealed and hard carbon coated athermalized fixed focus lenses, which provide a horizontal field of view of 40°, 16° or 9°, and are all capable of 4X digital zoom.

- Supports multiple input power options: AC, DC, Power over Ethernet (PoE)
- 802.3af (PoE) simplifies installation over a single standard cable
- Conforms to ONVIF™ standard
- Small size and lightweight
- Interfaces to existing industry standard mounting hardware

SYSTEM FEATURES

FOCAL PLANE ARRAY

Detector Type	Uncooled VOx Microbolometer
Array Size	320 x 240
Detector Pitch	17 μ m
Spectral Response	8 – 14 μ m (LWIR)
Sensitivity	<50 mK
Temperature Stabilization	None Required

VIDEO

Frame Rate	30 Hz / 60 Hz
Format	10/100 BaseT, H.264/MJPEG
Gain/Level Control	Automatic
Image Polarity	White Hot/Black Hot, Invert/Revert
Zoom	4x Digital Zoom with ePan / eTilt

COMMUNICATION INTERFACE

Ethernet, ONVIF™ Conformant (v 1.02)

ELECTRICAL

Voltage	12 - 24 V DC; 24 V AC; Power over Ethernet (PoE)
Power	<15 W With Heater

ENVIRONMENTAL

Operating Temperature	-40°C to +65°C (-40°F to +149°F)
-----------------------	----------------------------------

MECHANICAL

Dimensions (L x H x W)	25 x 9 x 9 cm
Weight	<1500 grams
Enclosure	IP66, Tamper Resistant

OPTICS

Lens	Athermalized Fixed Focus	Athermalized Fixed Focus	Athermalized Fixed Focus
Horizontal Field of View (HFOV)	40°	16°	9°
f/no.	1.2	1.2	1.2

SOFTWARE

DRS Web Interface	Administrator and User with Password Protection
-------------------	---

HARDWARE

Embedded Memory	Image Storage and Edge Analytics
-----------------	----------------------------------



40° HFOV



16° HFOV



9° HFOV

* ONVIF is a trademark of ONVIF, Inc.

Specifications subject to change without notice. The commodities described herein may require U.S. Government authorization prior to export or re-export.



Copyright © DRS RSTA, Inc. 2011 All Rights Reserved.
Approved for Release MR -2011-09-361

Reconnaissance, Surveillance & Target Acquisition Group

100 N Babcock St, Melbourne, FL 32935 | Tel 855.230.2372 | www.drs.com | info@drs-rsta.com