

WAVcam® -LWIR

Wide Area Video Camera: Persistent, wide area surveillance

- Long-wave Infrared sensor – day/night operation
- Uncooled sensor does not require cryo cooler refurbishment.
- Simultaneous wide area coverage AND high spatial resolution
- **90°-wide** FOV – up to 360° coverage with multiple units
- Real-time display, detection, and detection history
- Extensive Video Storage with continuous real-time capture, instant playback and export



Cost-Effective Persistent Surveillance

WAVcam Area Coverage (1 WAVcam)

90° FOV
Range (0.1-5mi)
Width = 2xRange

One WAVcam Does the Job of a Large Array of Cameras

WAVcam Options	Array: No. of Cameras (N)
WC-LIR-66	13

Camera Array Area Coverage

Cameras
1
2
...
N
90° FOV

PERSISTENCE PERFORMANCE

- OPERATION WITH ZERO AMBIENT LIGHT
- FULL RESOLUTION OF THE CAMERA OVER THE FULL FIELD OF VIEW – ALL THE TIME
- USEFUL RESOLUTION TO THE HORIZON
- NETWORK CONNECTIVITY TO MULTIPLE USERS

WAVCAM ADVANTAGES VS CAMERA ARRAY

- LOWER EQUIPMENT COSTS
- REDUCED MAINTENANCE COSTS
- SUPERIOR DATA MANAGEMENT
- AUTO DETECTION & DETECTION HISTORY
- FAR GREATER HORIZONTAL RESOLUTION

	WC-LIR-66
FOV	9.5° x 90°
WAV resolution	640 x 6,240 pixels
WAV refresh rate	1 second per WAV
Power input	120 VAC
Sensor power consumption	250 W @ 2A
Sensor unit weight	50 lbs. approximately
Sensor unit size	29.2" x 16.1" x 10.7"
Sensor enclosure rating	NEMA 4
Sensor operating Temp	-10° C to 50° C

NOTE: Values may be affected by scene content, lighting conditions, lens and system parameter settings.
 WAVcam is protected by US Patent 8,072,482 B2

Automatic and User Functions

Includes Wide Area Video Display, Detection and Tracking Capabilities

Features:

- Three window types: (1) Real-time display of 90°-wide FOV with approx. 1 Hz update, (2) Alert and Detection History Window, and (3) multiple Zoom Windows for target identification
- Full support for multiple operators, network access, and multiple screen displays
- Software for internal image stabilization, automatic gain control, and target detection & history
- Built-in camera controls, video playback & storage controls, and digital zoom
- Interfaces to other surveillance functions, such as Common Operating Picture systems
- Enables persistent surveillance of very wide areas at an affordable cost
- Acts as a force multiplier for operators responsible for wide area surveillance
- Graphical user interface displays the WAV and track history of all detected moving objects

User Computer and Display Requirements:

Operating System:	Windows, MAC OSX, Linux
Hardware:	Typical network-connected desktop workstation. For best performance, Quadcore x55xx equivalent or better, Fast Ethernet, 4 GB RAM
Display:	WXGA or better, WSXGA or HD is recommended. Two 20" or larger displays enhance view provided by the 90 ° WAV display.

Functions and Analytics:

WAVcam is designed for persistent surveillance jobs demanding constant wide area coverage and target detection. Using an intuitive display technique, operators quickly recognize the track "signature" of various target types and are provided a graphic indication of motion direction and velocity. Multiple resolution views, (each with digital pan/tilt/zoom capability), of a target of interest can be selected with a single click on the target area within the WAVcam field of view.

WAVcam Applications:

Border Security

Port/Coastal Security

Airport Security

Law Enforcement Surveillance

Perimeter Surveillance

Disaster Response

Critical Infrastructure Surveillance

EXPORT SENSITIVE: EAR CONTROLLED WAVcam - LWIR is subject to Export Administration Regulations. This hardware may not be resold, diverted, transferred, transshipped, made available to a foreign national within the United States, or otherwise disposed of in any other country outside of its intended destination, either in original form or after being incorporated through an intermediate process into another product other than as allowed by US Export Administration Regulations.