

EyeBall™ R1

System Specifications

Image Sensor

Color or B&W	
Resolution	470 TVL
Frame rate	Live video - 25 fps
FOV	55°
Shutter	Automatic shutter

Audio - Microphone

Detection field	Omni-directional detection
Sensitivity	Detects human voice from a distance of 5m
Special features	Automatic squelch to decrease noise

Video and Audio Transmission

Transmission	Indoor - 35m (approximately)
Distance	Outdoor - 150m (approximately)

Illumination

Wavelength	N.I.R., visible or invisible to the naked eye
Illumination distance	8m
Light sensor	Enables automatic activation and deactivation of the illumination source according to lighting conditions

Rotation Motor

Rotation speed	4 rpm
Special features	Quiet operation Operates in harsh environmental conditions

Rechargeable Energy Pack

Operation Time	Illumination LEDs off - up to 2½ hours
	Illumination LEDs on - up to 2 hours
	Standby mode - up to 24 hours
	Up to 1½ hours

Maximum time to full recharge

Mechanical Specifications (Sensor)

Dimensions	85mm diameter
Weight	580 gr
Stabilization	Quick self stabilization

Portable Display and Control Unit

Operation	Enables display of 2 sensors alternately
Resolution	960(V) x 234 (H)
Size	Display screen 6.4"
Monitor type	TFT
Brightness	Brightness control, 300cd/m²
Contrast	Contrast control 1:200
Energy	Continuous operation up to 3 hours
S- Video connector	A video output socket enables connection to an external recording device
Earphone	Earphone jack

Charger

Charger for the EyeBall sensors and the display unit	
Input voltage	110-220 v AC

Operating this device may require authorization of local/national communication regulation authority.
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Winner of the Frost & Sullivan 2007 'Excellence in Technology' Award in the field of digital imaging



Winner of the US Law Enforcement 2006 'Most Innovative Tactical Product' Award



Winner of the Israeli Ministry of Defense 2006 'Creative Thinking' Award

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EyeBall™ R1

360° Reconnaissance Wireless Deployable Sensors



EyeBall. Looking out for you.



EyeBall™ R1

Field surveillance system specially designed for rapid deployment and real-time intelligence

You're in a tough situation; the clock is ticking. Somewhere ahead - around the corner, through a 2nd floor window, in an underground chamber - is your objective. You need to see what's going on, to hear what is being said.

But do you really want to risk sending a man in there?

Now, you don't have to.

EyeBall is an advanced, audio/visual surveillance sensor that can be deployed and operated by a single person. Each unit is only slightly larger than a baseball making deployment easy; simply throw the EyeBall into the area you need to survey, mount it on a pole or lower it on a cable through a tunnel. EyeBall is self-righting and rotates, to provide continuous 360° video and audio coverage of the target area. Night illumination, visible or invisible, allows the EyeBall to operate at night or in darkened areas.

The sensor is rugged enough to survive a "throw" or "roll" of more than 50 meters with landings in rough terrain, concrete, piles of debris, or through windows.

Each EyeBall kit comes with two EyeBall sensors, a Portable Display Unit (PDU), a training ball, power chargers to keep the EyeBalls in operation, and a mounting pole. An optional Deployment Kit offers a variety of mounting devices to increase system versatility and functional options.

A lightweight, compact, and ruggedized carrying case allows the entire kit to be quickly transported to the scene - an enormous advantage when you need immediate intelligence.

- Rapid deployment for real-time intelligence and surveillance
- Compact and lightweight for easy transport
- 360° audio visual coverage
- Transmission range of 150 meters outdoors and 35 meters indoors
- Continuous operation for up to 2.5 hours
- Night vision capability

EyeBall R1 and PDU



Deployment Kit

Variety of mounting devices to increase system versatility and functional options: ground spike, wood screw, magnets, adhesive plates, pole to spike adapter, ball head, retrieval device, sensor retrieval clip ring, lowering wire adapter, 1/4" adapter for optional accessories, door hanger, rollup sack, camouflage covers



EyeBall™ R1 Add-On Options

Extended Battery Pack

The Extended Battery Pack brings extended capabilities for long-term surveillance. The External Battery Pack is an add-on to the EyeBall sensor, enabling long-term operation (up to 10 hours) without recharging. The pack uses commercial, off-the-shelf, field-replaceable batteries. The unit allows full sensor rotation. It is stable, compact, IP 65 compliant and easy to conceal. It connects to the sensor base using a 1/8" screw, and to the sensor charging jack with a power cable. The unit can also attach to the EyeBall R1 stationary accessories, and can even be hung upside down



Observation Kit

Unique software/hardware hybrid receives real-time 360° continuous EyeBall R1 sensor images and audio, from the field directly to the field commander computer. The Observation Kit gives commanders the ability to see and hear exactly what their operators are receiving, simply and unambiguously. They can monitor the overall situation, record and send info to higher command posts. The Observation Kit also features advanced Video Motion Detection (VMD), with specific ROI's (Region of Interest), as well as other multiple image analysis features

System Requirements:

Windows XP, 2+Ghz for a single processor or a dual core processor, at least 1GB RAM.
Graphic accelerator with at least 128 MB RAM, USB 2.0 port, display resolution 1024 X 768, at least 200Mb free disk space. Direct X 9.0 (or newer)

Observation Kit Application

