



# EyeDrive™

## Product

### Robot

#### 360° Omni-Directional Panoramic View

Black & white (B&W) or color cameras available  
 Omni-directional resolution 2,500 x 570  
 Field Of View 360°

#### Video & Audio Transmission

Transmission distance Up to 300 m / 984.3 ft (LOS)  
 Video 2.4 GHz  
 Data & control 902 - 928 MHz  
 Audio - microphone Up to 5 m / 16.4 ft

#### Intuitive User Interface

Drive mode Point 'n Go image navigation  
 Explore mode Point of interest automatic zooming

#### Illumination

360° NIR  
 Illumination distance 10 m / 32.8 ft

#### Rechargeable Battery

Operation time Active: 3 hours  
 Standby: 24 hours  
 Maximum time to recharge 4 hours  
 Operation Field replaceable

#### Mechanical

Motion system Wheeled  
 Speed Remote-controlled, up to 7 km/hour ( 4.35 miles/hour)  
 Dimensions 28 x 25 x 11 cm / 11 x 9.8 x 4.3"  
 Weight 3.5 kg / 7.7 lbs, additional payload up to 3 kg / 6 lbs

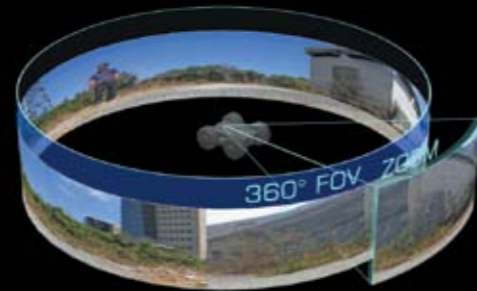
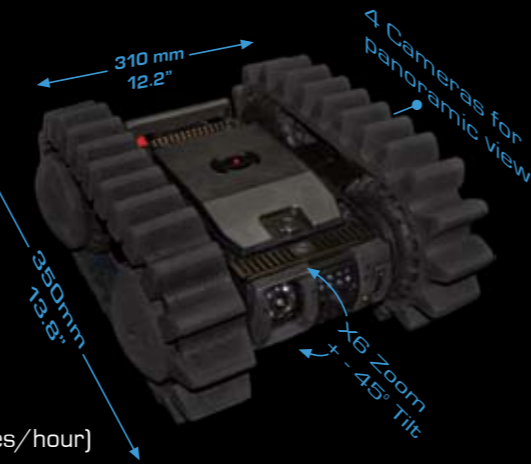
#### Communication Unit

Enables video and control communication between robot and laptop  
 Connects to a laptop via USB  
 Dimensions 18.5 X 11 X 4.5 cm / 7.3 x 4.3 x 1.8"  
 Weight 1 kg / 2 lbs

#### Computer

Minimum requirements:  
 Touch screen - recommended  
 CPU 3 GHz single processor or Dual Core 1.2 GHz  
 Memory 2 GB  
 Graphic card 128 MB not shared  
 Disk space 80 GB

360° FOV



# EyeDrive™

## Advanced Mini Robot for Wireless Surveillance



Specifications are subject to changes without prior notice. © 2009 ODF Optronics Ltd.

Available exclusively in North America from Northrop Grumman/Remotec  
 353 JD Yarnell Pky, Clinton, TN 37716  
 (865) 483-1426 | www.remotec.northropgrumman.com

Available in the rest of the world exclusively from ODF Optronics Ltd.  
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**NORTHROP GRUMMAN**



September 2009

## You See. You Decide! Eye Drive.

**NORTHROP GRUMMAN**



Specially designed for front-line personnel engaged in urban warfare anti-terror, law enforcement and search & rescue activities

They are somewhere on the other side, hidden from view, waiting for you to make a fatal mistake...  
Let them wait.

EyeDrive is an innovative observation and surveillance remote-controlled, lightweight mini-robot that provides continuous real-time 360° video and audio surveillance to ensure full scene orientation.

**A single operator can easily:**

- Carry and deploy the robot
- Maneuver it to an optimal position
- Observe and examine the scene in day, night and all weather conditions
- Track the threat

The operator can remain in safe conditions when deploying and placing the remote-controlled robot. The robot searches into corridors and rooms prior to entry, searches under vehicles, observes and detects suspicious objects. It can be placed in standby mode and activated when required.

Unique Point 'n Go navigation directs the robot to any location by touching the location on the panoramic view on the control unit; since no joystick is required, the operator is able to focus on the mission, rather than on driving the robot.

The robot is equipped with robust proprietary Video Motion Detection (VMD) providing automatic alerts of significant events based on video and audio detection. Events can be recorded, logged and retrieved for evidence and debriefing and/or sent to remote command centers.

**Each EyeDrive system includes:**

- A choice of one or two mini-robots
- Communication Unit
- Laptop (supplied by ODF or customer)
- Charger and an additional battery
- Tactical operations vest (optional)

EyeDrive can be thrown over walls or through open windows. Whichever way it lands, EyeDrive will remain operational. In case the EyeDrive lands upside down, the picture transmitted will automatically correct itself to display the image the right way round.

Now you have all the intelligence you need to make the on-site decisions that generate successful missions and save lives.



**Compact & Lightweight**

The entire system is easily carried and deployed by one operator



**EyeDrive Highlights**

- Compact - the entire system is easily carried and deployed by one operator
- Rugged – EyeDrive can be thrown over walls or through windows
- Point 'n Go navigation for intuitive operation and control
- Clear, precise, real-time 360° video images provided by four cameras for all around view plus a fifth Tilt and Zoom camera
- Provides sound
- Dual-sided operation – in case the EyeDrive lands upside down, the picture will automatically correct itself to display the image the right way round
- Robust ODF proprietary Video Motion Detection (VMD)
- Recording of the events (video and audio)
- Operates day, night and in all weather conditions
- Lightweight – robot weighs only 3.5kg/ 7.7 lbs
- Carries up to 3 kg/ 6 lbs of deployable sensors and explosives
- Military standard



**Point 'n Go™**

Innovative touchscreen controller provides intuitive operation & control

**Throwing the Robot**

EyeDrive can be thrown, over walls or through open windows

