

ODR™ HV

Omni-Directional Reconnaissance System for Heavy Vehicles



Specially designed for tanks and armored vehicles engaged in urban warfare, anti-terrorism and rescue activities

You're driving into the unknown. You can't afford to drop your guard. You're safe, behind the armor on the inside, but how are you going to see what's going on outside without putting yourself at risk? Just press a button.



The ODR (Omni-Directional Reconnaissance) System for heavy armored vehicles gives you a panoramic view of everything going on outside, while you remain safe and secure inside your vehicle.

The ODR HV central pole is mounted on the top of the vehicle. Its ruggedized display and control unit is safe and secure inside the vehicle.

The central pole contains five cameras able to zoom in on specific areas for 360° situational awareness, and a single high-resolution PTZ (Pan, Tilt & Zoom) camera for thorough investigation of suspected threats. The pole can also contain an IR camera with night vision capabilities. ODR's image analysis software synthesizes the video images from all the cameras into one, easy-to-understand, 360° panoramic view. The display uses a traditional clock view marked 1 through 12, to keep the operator completely oriented.

The ODR HV is a ruggedized, all-weather unit, able to withstand rough terrain and difficult conditions. It can be installed in a variety of platforms, and integrates seamlessly into existing Battlefield Management Systems. The image can be recorded and is adjustable to the specific needs of the commander, driver and other personnel in the vehicle.

ODR's VMD feature further extends its surveillance capabilities by allowing the user to establish a Region of Interest (ROI) in which potential threats, indicated by motion, trigger alerts.

The ODR HV eliminates guesswork and gives onboard personnel all the visual information they need to make decisions without exposing themselves to external danger. It greatly enhances crew safety,

- Continual, crystal clear day & night 360° video while in motion or stationary
- A dedicated Pan-Tilt-Zoom Camera and optional Thermal IR Camera for focusing in on identified threats
- B&W or Color cameras available, thermal zoom camera (optional)
- Easily-integrated into all types of vehicles (wheeled and tracked; combat and support)
- Proprietary Video Motion Detection (VMD) and real-time alerts of threats to vehicle operators
- Ruggedized, all-weather, all-terrain anti-shock stabilization system
- Image recording capability and integration into Battlefield Management Systems (BMS) with real-time images transmitted to central command for total battlefield control



ODR. Bring the world outside, inside.



Product Specifications



System Components

- Omni-directional observation module
- Display and Control unit installed with ODF proprietary omni-directional software package
- Cables linking observation module to control unit and power source

Observation Module

Panorama – FOV	360° (H) / 64° (V)
Pan-Tilt-Zoom camera FOV	32° (H) / 24° (V)
Video Output	B&W – CCIR Color – PAL
Dimensions	37cm (Height) x 17cm (Diameter)*
Power Supply	10-32 VDC

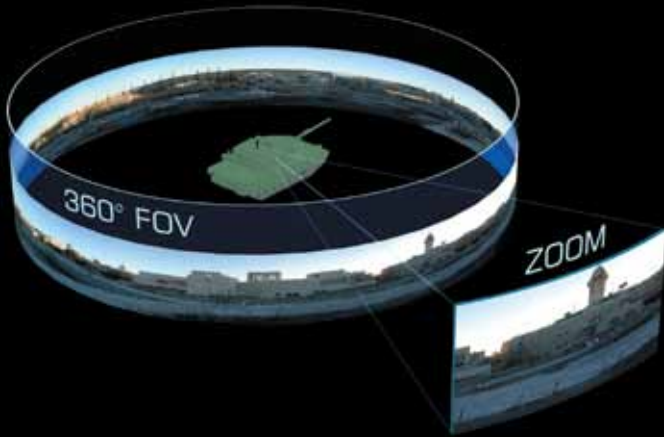
*May change as per vehicle type

Control and Display unit specifications

- ODF proprietary
- Screen size: 10.4"
- Screen resolution: 1024 X 768
- Dimensions: 31 (L) X 27.5 (W) X 8 (H) cm
- Power supply: 10-32 VDC



ODR™ Monitor Screen Shot



ODR™ Thermal Camera Display

ODF Optronics Ltd. may change the product specifications without prior notice.
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www.odfopt.com

ODF Optronics Ltd.
Toyota Tower, 65 Yigal Alon St.
Tel Aviv 67443 Israel

Tel:+972 (0)3 6255870
Fax:+972 (0)3 6255871
E-mail:info@odfopt.com

