



## Introducing Explorer HD. Get the only small tactical robot with full digital HD COFDM video starting under \$5k!

Imagine, a full 1080p HD digital COFDM video robot that easily fits in a police budget.

Stop imagining. Explorer HD provides exactly that. It is the ideal solution for maximizing situational awareness. With full 1080p HD digital COFDM video, allowing effective digital zoom, 4 wheel drive with differential steering, dual HD cameras giving crisp video with a substantial field of view, and an unheard of price point for digital COFDM, Explorer HD is the ideal and most budget friendly solution on the market.

### Rapid deploy and easy to operate

With Explorer simply turn it on and go. Explorer is small, rapid, and quick to deploy, allowing police to respond and gather information with minimal delay. The system includes the robot with wireless remote control via a gamepad, making it familiar and intuitive, dual HD cameras mounted in a watertight dome, digital COFDM transmitter and receiver, and a tablet with 1080p resolution for both viewing and recording of video.

To keep it simple and low cost the system comes ready to deploy right out of the box, with no setup required. The available options are:

- Choice of RF frequencies
- Choice of output power depending on range required
- Upgrade to a 11" tablet from the standard 8"
- Additional receivers to allow viewing by other officers on site
- Higher capacity batteries to extend operating time
- Pelican case
- Available two way audio
- Repeater, extending the operating range even further
- If required, replacement parts are readily available and low cost

Explorer HD – a small, rapid deploy scout robot with full digital COFDM with 1080p video



### Rotoconcept Robotics Inc.

2283 Argentia Road, Unit 24  
Mississauga, On  
L5N 5Z2  
Canada

905-997-1977  
800-915-0039

[www.rotoconcept.com](http://www.rotoconcept.com)  
[info@rotoconcept.com](mailto:info@rotoconcept.com)

# Explorer HD feature summary

## Basic configuration

In standard configuration Artemys comes with:

- Approximately 500 metres NLOS operating range when using UHF (400 – 600 MHz)
- Weather resistant aluminum chassis
- 4 wheeled drive platform with differential steering allowing a high degree of maneuverability
- Secure full 1080p DVB-T compliant video with dual HD cameras
- High quality audio
- IR illumination
- Up to 10 km/h speed
- 8" 1080p resolution tablet to view and record video to
- Choice of frequency and power output
- Familiar gamepad control making operation easy and intuitive
- Highly affordable price point
- Available with multiple USB COFDM video receivers



## Why Explorer?

- Low cost, making it affordable for Police budgets
- HD video vs SD
- Full digital COFDM vs analog
- Much longer range vs. analog systems
- Robust flicker free video vs. analog systems
- Easy to deploy and operate
- Ability to operate NLOS
- Ability to extend range even further with addition of a repeater

### Cameras

### Battery

### Wireless links

### Controller specifications

### Controller software features

### Robot Connectors

### Robot Mechanical

### Operating Time

## Summary of Specs and Options

Dual dome HD cameras with 1080p resolution, IR illumination

12V long life Lithium battery, rechargeable, charger included  
Dual 1080p Digital DVB-T compliant COFDM video and incoming audio

Video links available on 100 – 900 MHz, 2.2 – 2.6 GHz

Remote control on 900 MHz FHSS

Video integrates RSSI and robot battery indicator

8" 1280 x 720p sunlight readable with audio or upgrade to 11" screen with 1920 x 1080p sunlight readable

USB gamepad controller

On screen RSSI (Radio signal strength indicator)

Video recording to HDD with date and time stamping

Dual RF connectors for antennas

1 waterproof battery charger

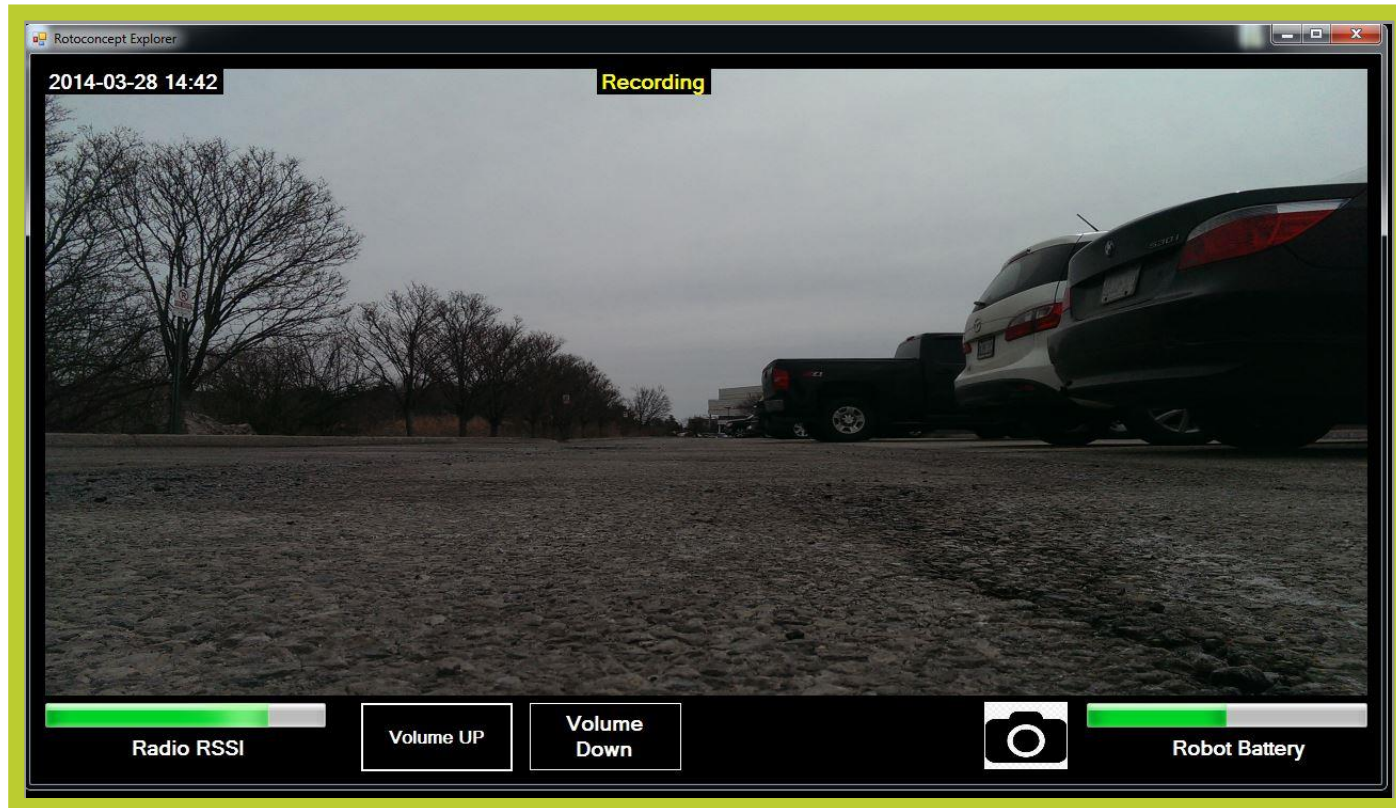
1 USB for configuration and software updates

L 18" x W 16" x H 8"

Weight, approximately 15 lbs depending on configuration.

Approximately 5 hours depending on usage.

## Explorer user interface



## SD vs. HD video comparison

