



**ROBOTEX**  
robot technology solutions



**AVATAR<sup>®</sup> III** Robot Series

**YOU NEED  
THIS ROBOT.**

[www.RoboteX.com](http://www.RoboteX.com)



**AVATAR® III** Robot Series



**The RoboteX  
AVATAR® III  
is a rugged,  
affordable,  
easy-to-use  
plug-and-play  
robot.**

**Now features  
an industry  
leading three  
year warranty.**

## **Why do I need an AVATAR® III?**

Whether SWAT, HazMat, EOD, or other emergency personnel, the **AVATAR® III** enhances the capabilities of first responders by allowing them to quickly and safely inspect dangerous situations without putting anyone in harm's way.

The **AVATAR® III** saves lives by keeping first responders at a safer standoff distance, and it does so at a fraction of the cost of other robots. **AVATAR® III** is so easy to use, you don't have to have a dedicated robot operator; anyone on the team can use it.

The **AVATAR® III** is a completely customizable base robotic platform with plug-and-play payload bays, allowing users to build the robot to fit their needs. With the wide array of accessories available, the robot can fill the needs of different types of first responders.



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## Activate & Go

- Deploy in seconds with the AVATAR® III's simple setup — just insert the battery and go.
- Control the robot with its easy-to-use, handheld touchscreen controller.

## Drive & Maneuver

- Navigate the robot over varied terrain, including carpet, clothing, grass, mud, water, and household debris.
- Self-right the robot if it lands upside down.
- Climb stairs and over various obstacles using the front flippers and High Angle Stabilizers.

## Secure & Protect

- Gather valuable intelligence with the robot's built-in video and audio recording capability.
- Operate with confidence over the robot's secure 2.4 GHz Wi-Fi radio.

## Depend & Rely

- Finish the mission with up to 5 hours of battery life under normal use.
- Trust RoboteX's all-inclusive three year warranty — no hassles, no gimmicks.

## Identify & Communicate

- Locate threats with two infrared color cameras, including a 360° Pan-Tilt-Zoom camera.
- Listen and talk to subjects with push-to-talk, two-way audio capability.

## Expand & Save

- Customize your AVATAR® III with a variety of plug-and-play accessories.
- Spend less and get more with the AVATAR® III's market-beating price.



**AVATAR® III**

## Technical Specs

- ▣ Operating Range: 300 meters
- ▣ Battery Life: 4-5 hours average
- ▣ Climbing Angle: 60 degree incline
- ▣ Physical Dimensions:  
24.41 in x 15.35 in x 6.14 in
- ▣ Weight: 25 lb (without battery)
- ▣ Optics: Wide-angle color drive camera
- ▣ Chassis Material:  
Durable Monostructure Composite
- ▣ Battery: BB-2590 Rechargeable,  
Military-grade, Lithium-ion
- ▣ Track System: "Closed Track" Design  
with Brushless Motors
- ▣ Headlights: One 200 Lumen LED light and  
one 180 mW/sr IR light
- ▣ Radio Type: Secure 2.4 GHz Wi-Fi



Pictured above: **AVATAR® III**  
with handheld controller



**The RoboteX  
AVATAR® III is  
a rugged, affordable,  
easy-to-use tactical robot.**

**YOU NEED THIS ROBOT.**

# AVATAR® III Tactical Robot

## Why do I need an AVATAR® III Tactical Robot?

The **AVATAR® III** enhances the capabilities of SWAT and tactical response teams by allowing them to quickly and safely inspect dangerous situations, there is no longer a need to send personnel in before you've had a chance to assess the situation.

The **AVATAR® III** saves lives by keeping first responders out of harm's way, and it does so at a fraction of the price of other robots. The **AVATAR®** Robots are regarded by tactical teams as a standard operational tool, like a firearm, vehicle, or piece of body armor.

Departments across the United States and internationally are using the **AVATAR®** Robots. With the **AVATAR® III's** market-beating affordability and unparalleled ease-of-use, so can you.

### Recommended Configuration:

- AVATAR® III Base Robot
- AVATAR® Pan-Tilt-Zoom (PTZ) Camera
- Spare Robot Battery



# AVATAR® III HazMat Robot



The **AVATAR® III HazMat Robot** equipped with the **AVATAR® Gas and Radiation Detector Mount** enables users to check hazardous gas and radiation readings from a distance.

The **AVATAR® Gas and Radiation Detector Mount** is an integrated mount that houses any detector in the MultiRae family (MultiRAE Pro, MultiRAE, and MultiRAE Lite P2P wired versions only) on top of the robot. The data from the detector is then displayed on the controller's screen. Now users can send a robot in to inspect a situation before having to suit up, saving valuable time, especially in the case of a false alarm.

## **Recommended Configuration:**

- AVATAR® III Base Robot
- AVATAR® Gas and Radiation Detector Mount
- Spare Robot Battery

# AVATAR® III EOD Robot

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## The perfect tool for EOD Teams

Building on the the same base model as the AVATAR® III Tactical and AVATAR® III HazMat Robots, the AVATAR® III EOD Robot features an extendable, five-axis robotic manipulator arm, wireless initiator, high angle stabilizer bars, and compatibility with a remote Percussion-Actuated Nonelectric (PAN) disrupter - giving EOD teams a host of new tactical and bomb disposal capabilities. In addition, the AVATAR® III EOD Robot features all of the same tactical capabilities and benefits as the AVATAR® III Tactical Robot, including high-quality video, push-to-talk audio, stair climbing ability, dual IR and LED lights, and a rugged drop-resistant chassis.

## Benefits:

- ▶ CarbonFire 10 PAN disrupter mounts easily onto the AVATAR® Manipulator Arm
- ▶ Allows EOD and Bomb Tech Teams to safely engage suspicious packages from a distance using a remote controlled robot system
- ▶ Enhanced visibility of dangerous objects with robot's built-in cameras
- ▶ Remote/stand-off activation of the CarbonFire 10 unit possible with a variety of initiator systems



## Now compatible with:

- A. CarbonFire 10 by Concept Development
- B. Robot Tool Block by Edge Tactical Solutions



## Recommended Configuration:

- AVATAR® III Base Robot
- AVATAR® Manipulator Arm or Extended Reach Manipulator Arm
- Spare Robot Battery
- AVATAR® Universal Shock Tube Initiator

## Video Recording

The AVATAR® II introduced video recording directly to the robot controller with the ability to download the recording onto a USB. The AVATAR® III has added the ability to record Gas and Radiation Detector readings and a memory meter that lets the user know how much time they have left.

## Position Indicators

The touch-screen features optional position indicators, showing the user the position of the Manipulator Arm, robot flippers, and Pan-Tilt-Zoom (PTZ) Camera in relation to the robot.

## PTZ Enhancement

Touch-screen options now enable manual focus for the Pan-Tilt-Zoom Camera and a home button that points the camera toward the front of the robot for quick orientation.

## Manipulator Arm Enhancement

Quick position pre-sets will position the arm with one touch to a pose best suited for different operations (opening doors, climbing stairs, etc.). The increased rotation will allow the robot to reach behind itself and place things in/take things out from the pull behind Hitch & Trailer.

## Channel Selection

Different locations have different types of interference, if the signal is weak, you can search and connect to a better channel to improve the robot's signal strength.

## Speed Selection

Optional low speed mode allows for more precise control over movements.

## High Angle Stabilizers

One set of High Angle Stabilizers to increase climbing incline now included with the robot.



Built with the same durability, and ruggedness as our older models, the **AVATAR® III** features an all new user interface with added touch-screen options and a standard three year warranty.

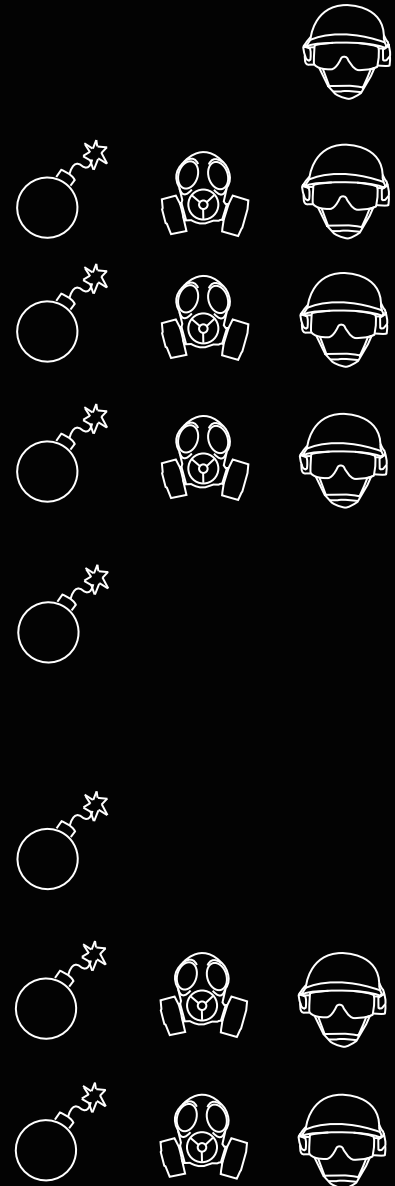
The look and feel of the new interface allows for a more user friendly experience. It gives the operator more control over the movements of the robot and improved audio/video recording capabilities.

# Customize your robot with a variety of **AVATAR® III** accessories

The **AVATAR® III** is a modular, plug-and-play platform that can be customized with a range of accessories to meet the unique tactical and strategic needs of your team.

## RECOMMENDED FOR

- A** PAN-TILT-ZOOM (PTZ) CAMERA – 360° color IR camera allows you to survey an area and zoom in (up to 100x) on objects of interest.
- B** SPARE ROBOT BATTERY – Greatly extends the operating time of the robot.
- C** HIGH ANGLE STABILIZERS – Stabilizing rods that attach to the back of the robot and allow it to climb steep inclines and tall objects.
- D** CONTROLLER CHARGER ADAPTER CABLE – Cable that enables the operator to charge the controller from a car outlet or a BB2590 robot battery.
- E** MANIPULATOR ARM – Five-axis manipulator arm allows you to remotely open doors and manipulate dangerous objects up to 8 lbs. in weight. Comes with integrated color IR camera to enable visibility over tall or elevated objects (up to 30 inches in height).
- F** EXTENDED REACH MANIPULATOR ARM – 9” extended reach allows the robot to open knob doors and reach higher objects than the standard arm.
- G** EXTERNAL AUDIO/VIDEO RECEIVER – Allows for remote viewing of the robot’s audio/video feed. Includes receiver unit and antenna only.
- H** HITCH & TRAILER – Flatbed trailer can tow up to 30 lbs. of cargo on a flat surface (or 10 lbs. up stairs). Remote latch allows you to disconnect trailer to deliver cargo.



# AVATAR® III accessories continued..

The variety of payloads available for the AVATAR® III allows you to **build the robot you want.**

## RECOMMENDED FOR

**I** GAS AND RADIATION DETECTOR MOUNT – Integrated mount that houses any detector in the MultRAE family on top of the robot (see HazMat page). Allows you to view readouts on the controller's screen.



**J** UNIVERSAL SHOCK TUBE INITIATOR – Shock Tube Initiator that attaches to the Manipulator Arm and the Extended Reach Manipulator Arm. Activated by using the controller touchscreen to fire a recoil-less Percussion Actuated Non-electric (PAN) disruptor or any other shock tube command-initiated device, via wireless technology. This allows the operator to maintain a safe distance from the firing site.



**K** DIRECTIONAL ANTENNA – Directional antenna that will significantly increase the range of the robot and controller radios in both outdoor and indoor conditions.



**L** 900 MHZ ROBOT RADIO – Swappable radio system allows for increased indoor range when robot's built-in 2.4 GHz radio encounters interference. Decreases outdoor range slightly.



**M** TACTICAL DEPLOYMENT BACKPACK – Custom fitted hard-shell backpack allows you to carry the AVATAR® III (and accessories) and be mission-ready in seconds.



**N** CONTROLLER E-Z SLING – Custom-fitted strap that allows you to secure the controller around your neck for more comfortable handling during prolonged operational deployments.



The **AVATAR® Robots** are currently helping first responders in various different fields across the country **explore, engage, and resolve** dangerous situations like never before.



## AVATAR® Robot Series Testimonials

“The RoboteX AVATAR® Robot has been nothing short of amazing. The Avatar’s superior mobility, in conjunction with its durability and video transmission technology, separates it from any other tool we have used to date. Bottom line, this thing is a game changer. Our team can’t say enough about this tool.”

— Sgt. Troy Greene  
Saint Paul Police Department SWAT Team  
Saint Paul, Minnesota

“On one callout, the AVATAR® was used to clear a house and open several doors that were partially closed. On another callout, it was used to locate a subject that was fatally wounded after firing at officers. The robot is a great piece of equipment that all SWAT teams could benefit from.”

— Officer Travis Ballew  
Texas Rangers SWAT Team  
Austin, Texas

“This robot has become extremely vital to our operations. The robot provides us with the safety and comfort of knowing that it keeps our operators out of harm’s way... the RoboteX AVATAR® is priceless”

— Officer Johnny Quinones  
Chicago Police Department SWAT  
Chicago, Illinois

“We deployed the AVATAR® recently on a barricaded subject. The robot worked great...it climbed two sets of stairs without a problem, the two way speakers were excellent, and the bubble cam was perfect. By the way, it did scare the subjects. I had to advise them the robot would not hurt them if they just complied — it was humorous.”

— Sgt. Timothy Culian  
St. Louis County Police Department  
St. Louis, Missouri



# AVATAR® Case Study

## Oakland, California Police Department SWAT Operation

August 2011  
Oakland, California



### Background

After losing several officers in the line of duty, the Oakland, California Police Department SWAT team reevaluated their tactics and substantially modified their standard operating procedures. Now, the Oakland Police Department SWAT team will not enter a residence until a RoboteX AVATAR® has cleared the area first

### Event

In August 2011, the Oakland Police Department SWAT team served a search warrant on a residence. The team assigned to the operation consisted of 43 members, including a sniper team, a hostage negotiation team, a perimeter team, an entry team, support staff, a helicopter--- and an AVATAR® robot.

The team arrived at the residence at approximately 5:00 AM and took up their positions around the house. A helicopter directed its spotlight on the home and a SWAT Officer, using a loudspeaker, ordered everybody in the house to evacuate. Shortly thereafter, three persons emerged from the front door of the home and were immediately placed in custody. However, the SWAT team still did not know what was left inside the house --- guns, drugs, a bomb, or even more armed suspects waiting in ambush.

The AVATAR® played a critical role in allowing the Oakland Police Department SWAT team to finish the mission safely and efficiently. A SWAT Officer drove the robot towards the home from the safety of an armored vehicle. The robot mounted a curb, sped through wet grass in the front yard, and finally climbed two stairs before entering through the home's front door. The robot proceeded to move up another staircase and through each room of the home, navigating over toppled pieces of furniture, clothing, food, and drug paraphernalia. On several occasions, the Officer activated the robot's pan-tilt-zoom camera to scan for dangerous ordnance and additional suspects. Using this method, the SWAT Officer identified several shotguns in a bedroom, and he was able to clear the rest of the house rapidly.

After completing the survey of the house with the AVATAR® robot, the SWAT team sent in their Entry Team. An Oakland Police Department SWAT Officer later testified, "Before we had your robot, the process {of clearing the house} took several hours." As a result of the robot's reconnaissance work, the Entry Team was able to proceed through the home at a rapid pace, clearing it in less than five minutes and eliminating a great deal of risk from a dangerous situation.

For the Oakland Police Department SWAT team, the AVATAR® is an essential piece of tactical equipment that has been fully incorporated into their standard operating procedures. Specifically, absent immediate life threatening circumstances, the Oakland Police Department clears open areas, commercial buildings and homes with the AVATAR® robot first.

For SWAT teams and first responders at large, the choice is clear. The RoboteX AVATAR® is easy-to-use, affordable, and reliable. It is the first set of eyes and ears on the ground. It explores dangerous situations remotely and securely. It saves time, money, and lives.



# Need help buying, servicing, or operating an **AVATAR® III**? Want to test drive an **AVATAR® III**? Contact us today.

## Demos

Want to see an **AVATAR® III** in action? Contact us if you want a demo at your facility, or look for us at state and national law enforcement conventions. Either way, we'll do everything we can to get a robot into your hands so you can test and evaluate its performance.

## Testing & Evaluation

Want to test the robot at your department? We'll arrange a free T&E period so you can get first-hand experience operating an **AVATAR® III**. We will coordinate with you and make sure you have a robot for a training day. Contact us or visit our website at [www.robotex.com/test-drive](http://www.robotex.com/test-drive) and tell us the times and dates you prefer. After that we'll contact you directly to coordinate the details. It's that simple.

## Service Plan

The **AVATAR Service Plan** represents a new standard in robot service. With it, you'll never have to pay extra for service, repairs, or hardware upgrades again. For a flat yearly rate, you get your own **AVATAR® III** robot, 100% comprehensive warranty coverage, and free robot and software upgrades every three years.

## Grant Assistance

We understand that applying for grants can be a time consuming process. As part of our **Grant Assistance Program**, we will assist you in finding an applicable grant, help you with your proposal, and advise you on how the process works. E-mail or call us directly for more information.

## Training Packages

RoboteX training can help your team effectively deploy the **AVATAR® III** on tactical callouts. Covering both robot operation and advanced use case scenarios, our training courses are taught by veteran SWAT instructors and are customized to your team's needs. E-mail or call us directly for more information.

## Customer Service

RoboteX provides the best customer service in the robotics space. Unlike many of our competitors, we include a comprehensive three year warranty and personalized service with every robot purchase. When you call us, we'll get you to a real person. We'll also get to the bottom of your problem and fix it, fast. No catches or complicated processes. Straightforward, simple, honest service — that's the **RoboteX commitment**.



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