

2014 Edition

AVATAR[®] III

User Manual



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Safety Information

 Read this manual carefully before operating the Avatar® III. 

-  Carefully inspect the Avatar® III before each use.
-  Ensure that all parts are secured in place and properly installed. Do not try to make repairs yourself. Parts may not work properly if they have been repaired by a party other than RoboteX, Inc.
-  Do not modify any components on the robot yourself. Doing so may cause permanent damage not covered by your warranty.
-  Do not place fingers in between the tracks or flippers when the unit is powered on. Keep fingers and other body parts away from moving parts at all times.
-  Care should be taken when running the Avatar® III near pedestrians, small children, or objects that can be harmed. Be aware of your and the robot's surroundings at all times.
-  AC Adapter Handling:
 - Use **only** the supplied AC adapter. Do **not** use any other unauthorized AC adapters. Damage to robot and battery may occur from use of alternate AC adapters.
-  FCC Caution: This equipment generates and uses radio frequency energy and may cause interference to external reception if not installed and used properly in strict accordance with the manufacturer's instructions.
-  Before switching payloads/accessories on the robot, make sure the battery is unplugged and the unit is powered down.

Avatar® III Overview

The Avatar® III is a compact, lightweight robotic platform that is part of the Robotex Avatar® Series. Designed from the ground up for portability, expandability, and ease-of-use, the Avatar® III serves as a useful tool for a variety of users.

The Avatar® III can be customized with a variety of plug-and-play accessories. These accessories facilitate use of the robot in a variety of scenarios, including Tactical, CBRNE, EOD, K9, and personal security settings. Visit www.robotex.com or contact your Account Manager for more information.



Basic Setup and Maintenance

1) Pre-Use Setup

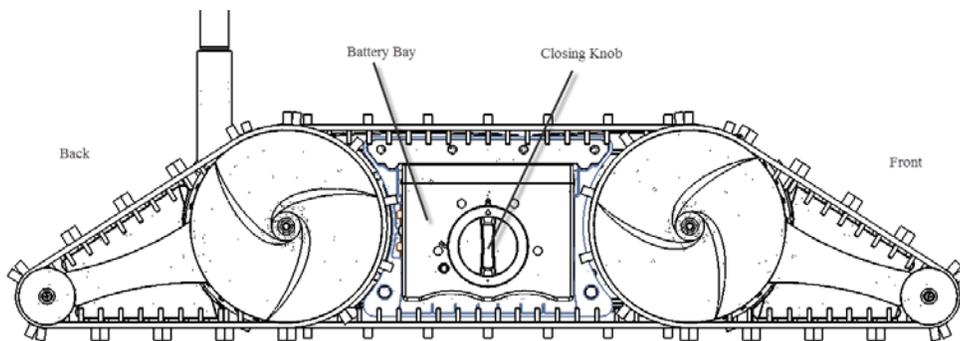
A) *Setting up the Flippers*

Before driving the robot, please make sure that both sets of flippers are unfolded and locked in place. If the robot is being taken out of a case, it is likely that both sets of flippers will be folded in.

Straighten out the front set and back set of flippers separately. When unfolding a set of flippers (front or back), make sure to grip both flippers and move the two flippers in each pair (front pair or back pair) at the same time. Push outward (away from payload ports - it's OK to apply some force) to straighten out the flippers.

Both sets of flippers should lock into place. When in use the back flippers should be flat against the ground and remain stationary. The front flippers can be moved up and down with the controller.

B) *Installing the Battery*



- 1) The battery bay is located on the side of the robot. To open the battery bay, grip the “Closing Knob” and push in, turning the knob in counter-clockwise direction. You should feel a slight “pop” or “click,” indicating the door is open. Pull the latch outward and pull out the battery ejector bar to open the battery bay.
- 2) To install the robot battery, line up the connectors on the battery with the slots inside the battery bay. Next, gently slide the battery into the bay. A properly installed battery will slide entirely into the robot – if any part of the battery is sticking out, remove battery, check alignment of connector with battery bay, and reinsert.

- 3) Close the battery bay door by returning the door to its closed position, making sure the folding bar is folded over the battery and the upper lip of the battery door tucks underneath the top strip of the battery bay. Shut the latch and turn the “Closing Knob” clockwise. You should feel a “pop” or “click” when the battery door has closed.



When closing the battery door, make sure the lip at the top strip of the battery door tucks underneath the top of the battery bay.

⚠ IF FLIPPERS ARE BLOCKING THE BATTERY DOOR, MOVE FRONT FLIPPERS AND BACK FLIPPERS. FRONT AND BACK FLIPPERS MUST BE MOVED IN PAIRS. DO NOT MOVE ONE FLIPPER AT A TIME.

C) Attaching the Antennas

Make sure that the controller antenna is attached before powering the unit on. (Also make sure you don't power on the robot without the robot radio installed)



The *controller antenna* attaches to the silver port on the top left of the controller. **DO NOT** plug it into the covered black port on the top right side of the controller. If you have more than one radio, make sure you are attaching the appropriate antenna for the radio you have installed. The controller antenna will be color coordinated with the robot radio antenna.

⚠ DO NOT PUT ANTENNA ON RIGHT PORT (COVERED BY BLACK CASING). DOING SO WILL PERMANENTLY DAMAGE YOUR CONTROLLER.

D) Powering On the Robot and Controller

Robot

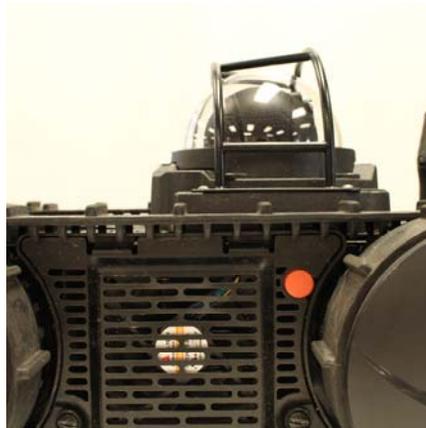
There is no on/off switch on the robot itself. The robot is powered on and off by inserting and removing the battery.

Power On: The robot is powered on whenever the battery is installed.

Power Off: The robot is powered off whenever the battery is removed.

There is a third option where the battery may be stored in the robot and the robot remains powered off. To do this, press the red button on the opposite side of the robot from the battery bay and hold until the battery door is closed. If the fans didn't turn on, the robot is powered off. If you press the button when the robot is already on with the battery installed, it does nothing.

If you've used the red button, simply remove the battery and put it back in to power on the robot.



Controller

The Controller has a small black power button located in the top right corner of the controller (just above the screen).

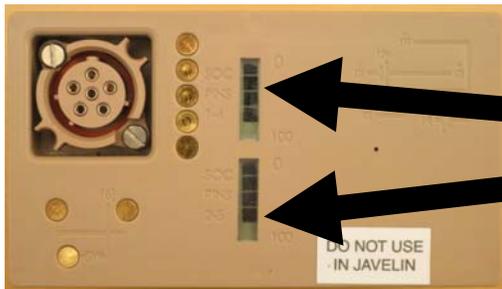
Power On: The Controller is powered on by pressing the black round power button.

Power Off: The Controller is powered off by pressing and holding the black round power button down until the LED light turns off.

2) Post-Use Maintenance

A) Charging the Robot Battery

- After removing the battery from the Avatar® III, align the charger and battery connectors and plug the adapter into an AC wall outlet.
- Battery is fully charged when the indicator on the top of the battery shows 5 full black bars, or when the indicator light on the top of the charger turns green (if you choose to, it is alright to leave the battery on the charger).
- To check charge levels, you can refer to the charge indicator on the battery itself, which will tell you how much charge is left. You can also look at the on-screen controller indicators (see page 12).



These are the indicator bars. The dark bars reflect the amount of charge in the battery. Five black bars mean the battery is fully charged. When no black bars are present, the battery is empty. The battery in this picture shows a battery with just under a full charge.

B) Charging the Controller Battery

- Plug the adapter into an AC wall outlet.
- Plug the round adapter plug into the round charging port on the bottom of the controller.
- The controller is fully charged when the LED light on the controller turns off or flashes red. If the LED light is solid red, the controller is charging. You should leave the controller on the charger when not in use.

C) Folding the Flippers In

- If you wish to put the robot in its case, you will have to fold its front and back flippers in. To do so, it is necessary to “smack” the flippers against the ground with some force to disengage them from their locked position (make sure the High Angle Stabilizers have been removed before disengaging back flippers). The recommended method is to grip the robot’s front with one hand and the back handle with the other, holding the robot at an angle to hit the flippers against the ground. **NOTE:** Be sure to apply equal pressure to both flippers. Do NOT try to move them one at a time.

Handheld Controller Overview

The RoboteX Avatar® III comes with a portable handheld controller for straightforward, easy operation. The controller is equipped with a simple button layout and a touchscreen for enhanced functionality and ease-of-use with all robot accessories. The image below displays basic robot and PTZ camera controls.



1) Basic Avatar® III Controls

Please refer to Figure 1 on page 11 for controller button diagram and labels.

A) Powering On/Off, Audio Volume, and Robot Movement

Power On/Off Button:

- Powers the controller on and off.

Incoming Volume Control Knob:

- Push up = incoming audio volume increases
- Push down = incoming audio volume decreases

Robot Control Joystick (Left Joystick):

- The left joystick controls robot movement (left/right and forward/reverse).
- The robot responds to a range of input – the further you push the stick, the faster the robot will move. For slow movement, push lightly on the joystick. There are two speed modes, high and low that will be discussed on page 14.

B) Flipper Control, IR/LED Light, and Push-to-Talk Audio

Flipper Control Knob (Right Knob):

- Push up = flippers go up
- Push down = flippers go down

Note: When pushing the flipper control knob down, the flippers themselves will stop automatically once they are flat on the ground. To position the flippers below this position, release the flipper control knob and then push down again.

LED Light Switch (Yellow Button):

- Switches the robot's front LED Light ON/OFF.

Two-Way Audio "Push to Talk" Button (Blue Button):

- Hold down for *outgoing* audio – to project your voice from the robot.
- Release to hear *incoming* audio – to hear what the robot hears.

Note: Unless the blue button is pressed, incoming audio is on by default. There is no incoming audio while the robot is in motion.

Figure 1

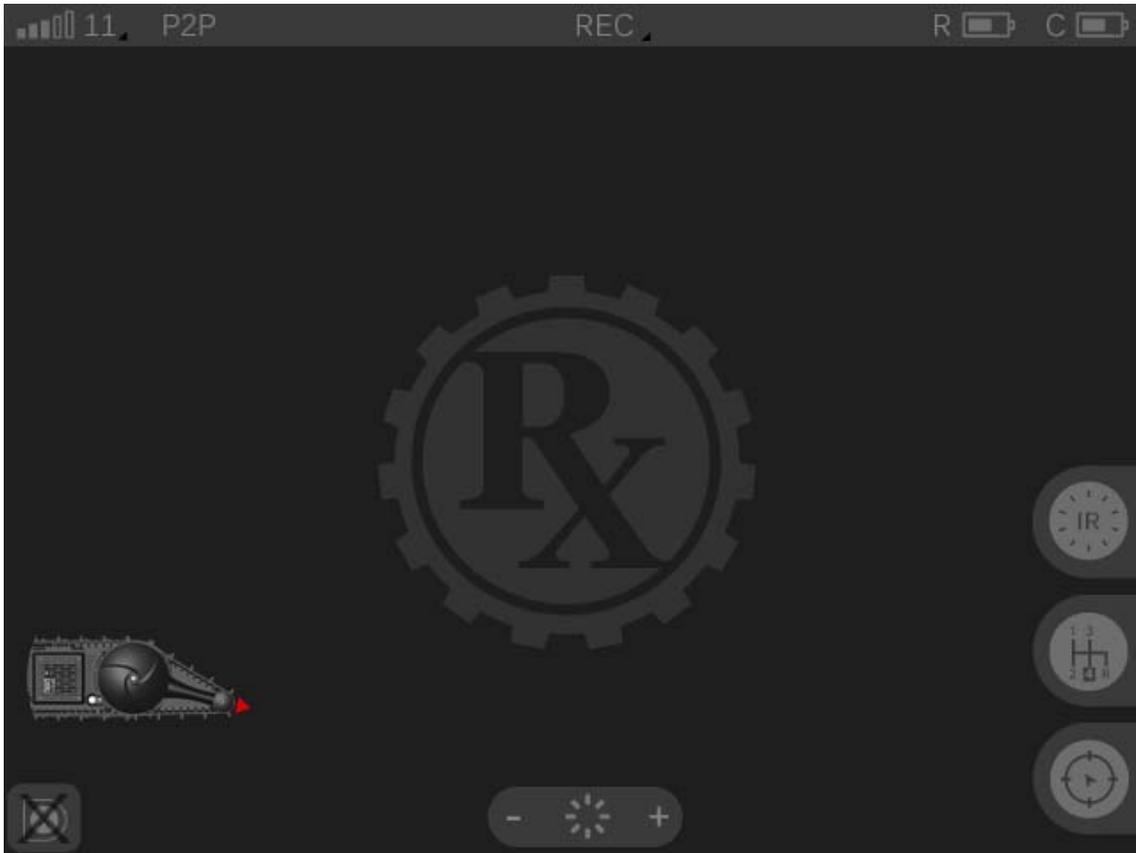
Controller Diagram for Avatar® III with PTZ Camera Payload

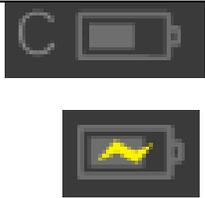


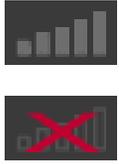
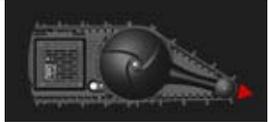
2) Controller Touchscreen Functions and Display

A) Touchscreen Display

The following icons will be displayed on the Avatar® III's controller screen (in drive camera view):



<u>Display</u>	<u>Description</u>
	Location: Top right of the screen Indicates charge level of the robot battery.
	Location: Top right of the screen Indicates charge level of the controller battery. (Note: The yellow electric bolt icon will appear if the Controller is plugged into an external power source).

	<p>Location: Top left of the screen</p> <p>Indicates the wireless signal strength between the controller and robot. This will show a red X mark when there is no connection. If this symbol shows for longer than 1 minute see troubleshooting page 22.</p>
	<p>Location: Top left of the screen</p> <p>Replaces normal signal strength icon and indicates that the controller is having radio problems. See troubleshooting page 22 if you are having connectivity issues.</p>
	<p>Location: Lower left of the screen</p> <p>Indicator showing the relative flipper positions.</p>
	<p>Location: Top left of the screen</p> <p>Indicates the robot and controller are connected under point-to-point mode (direct wireless connection). The only other mode would be repeater mode (for customers who have repeaters).</p>

B) Touchscreen Controls

RoboteX Avatar® III's on-screen display also features a touchscreen. The following touchscreen buttons can be used to control the Avatar® III:

Menu Buttons ON/OFF – Located on the bottom left of the screen.

Press to show / hide the menu:

Menu On



Menu Off



IR Light ON/OFF - Located on the right of the screen. This button is only visible if menu buttons are turned on.

Press to turn on and off the IR Light:

IR Light Off



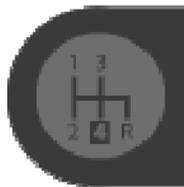
IR Light On



High Speed/Low Speed Mode - Located on the right of the screen. This button is only visible if menu buttons are turned on. High speed is the robot's default speed. The optional Low Speed is recommended for climbing stairs.

Press to switch between robot High Speed and Low Speed mode:

High Speed
Mode



Low Speed
Mode



Position Indicator Mode – Located on the right of the screen. This button is only visible if menu buttons are turned on.

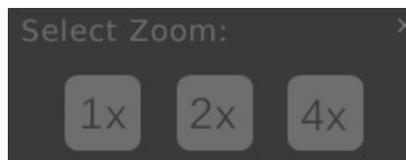
Press to show / hide the position indicators (flippers and PTZ or Arm if they are on the robot).



Digital Zoom- Located on the right of the screen. This button is only visible if menu buttons are turned on.

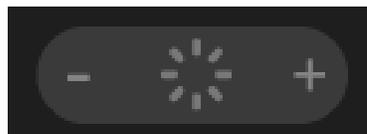


Pressing this button pops up a window to choose 1x, 2x, or 4x zoom. 1x is normal view.



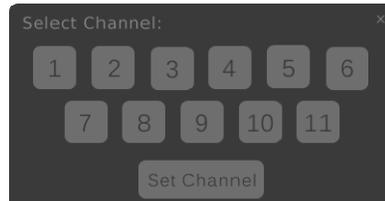
Screen Brightness – Located on the bottom middle of the screen.

Tap '+' or '-' to adjust the brightness of the handheld controller screen:



Channel Selection – Located at the top left of the screen.

To activate the Channel Selection capability, press  and it will prompt the following box:



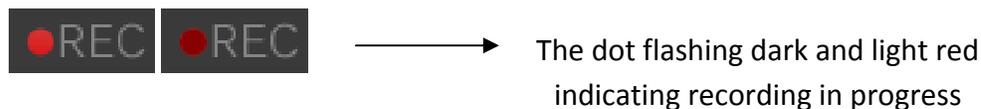
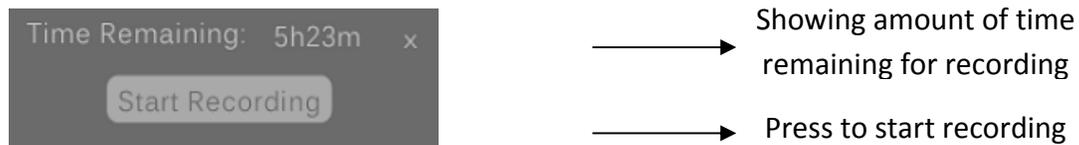
First select the channel to be set to, and then press the ‘Set Channel’ button. Changing channels can take up to 1 minute depending on the signal strength and surrounding condition. If the channel is not switched successfully, it will automatically return to the default channel which can take up to 2 minutes.

The number next to the signal strength bars indicates the current channel.

⚠ NOTE: IF YOU HAVE A 900 MHZ RADIO, IT WILL ONLY WORK ON CHANNELS 3, 5, AND 7 (5 USUALLY WORKS THE BEST). DO NOT SELECT THE OTHER CHANNELS AS THE PERFORMANCE WILL BE POOR ON THESE CHANNELS.

Video Recording

To activate the Avatar® III’s audio and video recording capability, press  and it will prompt the following box:



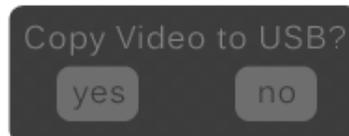
Press ‘REC’ again to prompt the box for stopping the recording:



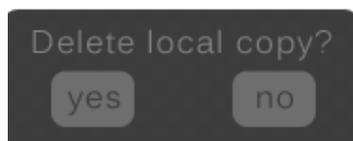
Note: Audio level in the recording is controlled by the level of audio on the controllers. Also, if the audio level is turned on, the video will record the audio from robot to controller by default. If the Push-to-Talk button is pressed, all audio in range of the controller will be recorded.

Video Retrieving

- 1) Insert a USB flash drive into controller’s USB port (USB 2.0 formatted in FAT32). **Note: 16GB size recommended.**
- 2) Follow prompts on screen. You will see two prompts, one after the other.
 - a. **“Copy Video to USB?”** – Prompts you to transfer the video files from the controller’s internal memory to the USB stick. Hit “yes” to transfer or “no” to save transfer for later date.



- b. **“Delete local backup?”** – Asks if you want to clear the controller’s internal memory. Hit “yes” to clear and “no” to keep video stored internally for transfer at a later date. **NOTE:** It is recommended you delete local backup after each time you transfer video to a USB stick.



- 3) Follow the onscreen prompts and wait for video transfer to complete. Remove the USB flash drive when prompted.
- 4) Video files are now on the USB flash drive. Plug the USB flash drive into a computer to view or download the video files.
- 5) Any recorded video less than 6 minutes long will have an individual file. If the video is longer than 6 minutes, it will be divided into 6-minute segments and stored as multiple files. There may be a minimal (up to one second) loss as it changes from one segment to the next. The video files will have a name format such as ‘vid-00010-002’, where 00010 indicates this is the 10th video recording, and 002 means it is the second section of the 10th video recording.

- 6) **NOTE:** Depending on the setup of your video player program, you may need to download VLC Media Player to play the video files. VLC Media Player is a free download from many sources. Visit www.videolan.org or contact your Robotex Account Manager for help downloading and installing VLC media player.

3) PTZ Controls

A) Pan-Tilt-Zoom (PTZ) Camera Controls

Please refer to Figure 1 on page 11 for controller button diagram and labels for PTZ use.

Camera View Switch (Green Button):

- Switches between the drive camera view, the PTZ Camera view, and the split screen view (displays both drive camera and PTZ Camera views).

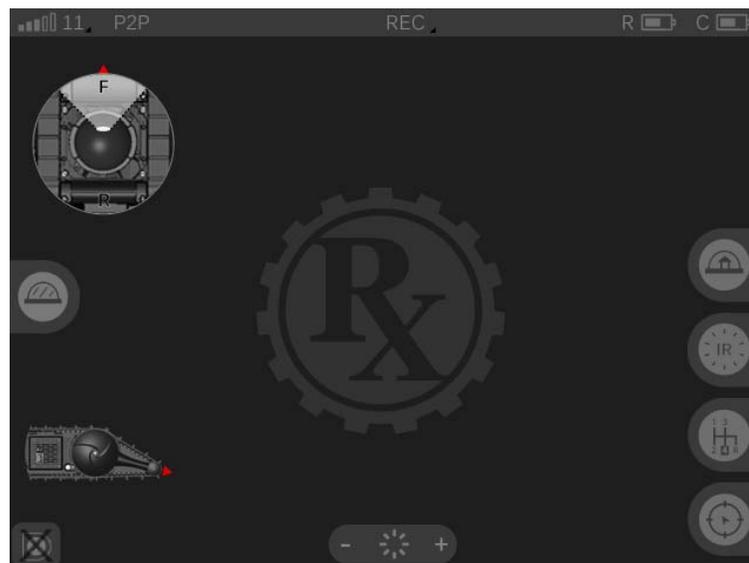
PTZ Camera Control Joystick (Right Joystick):

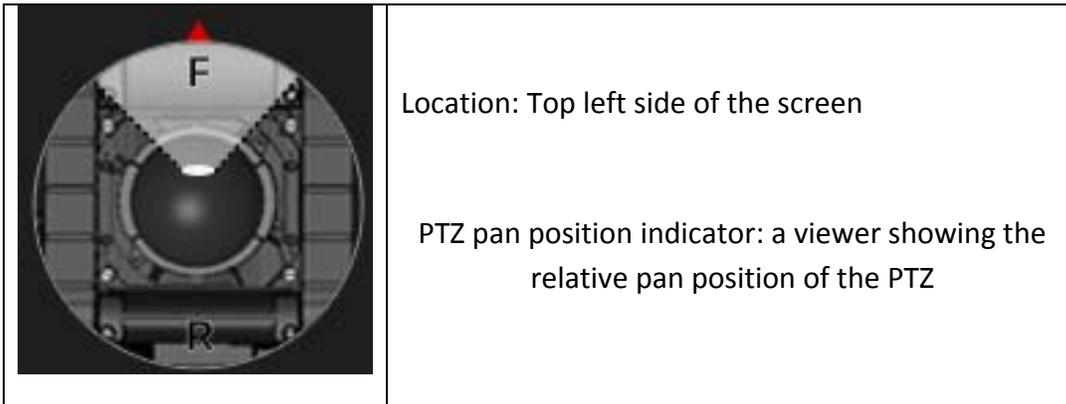
- The right joystick maneuvers the 360° PTZ Camera's movement (both side-to-side and up-and-down). See below for more details.

PTZ Camera Zoom Knob:

- Push up = camera zooms in
- Push down = camera zooms out

C) Pan-Tilt-Zoom (PTZ) Camera Touchscreen Display and Controls





PTZ Automatic Home Position - Located on the right of the screen. This button is only visible if menu buttons are turned on.



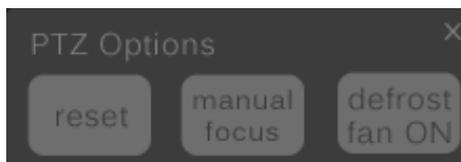
PTZ Menu - Located on the left of the screen.

Brings up the below PTZ Options.



PTZ Options:

- Press to prompt three options: Reset, Manual Focus, and Defrost Fan On/Off



- Reset - resets the PTZ camera auto focus.
- Manual Focus – press to bring up the following box. Tapping ‘+’ and ‘-’ adjusts the focus of the camera (this helps when the PTZ camera automatically focuses on dome instead of the distance)

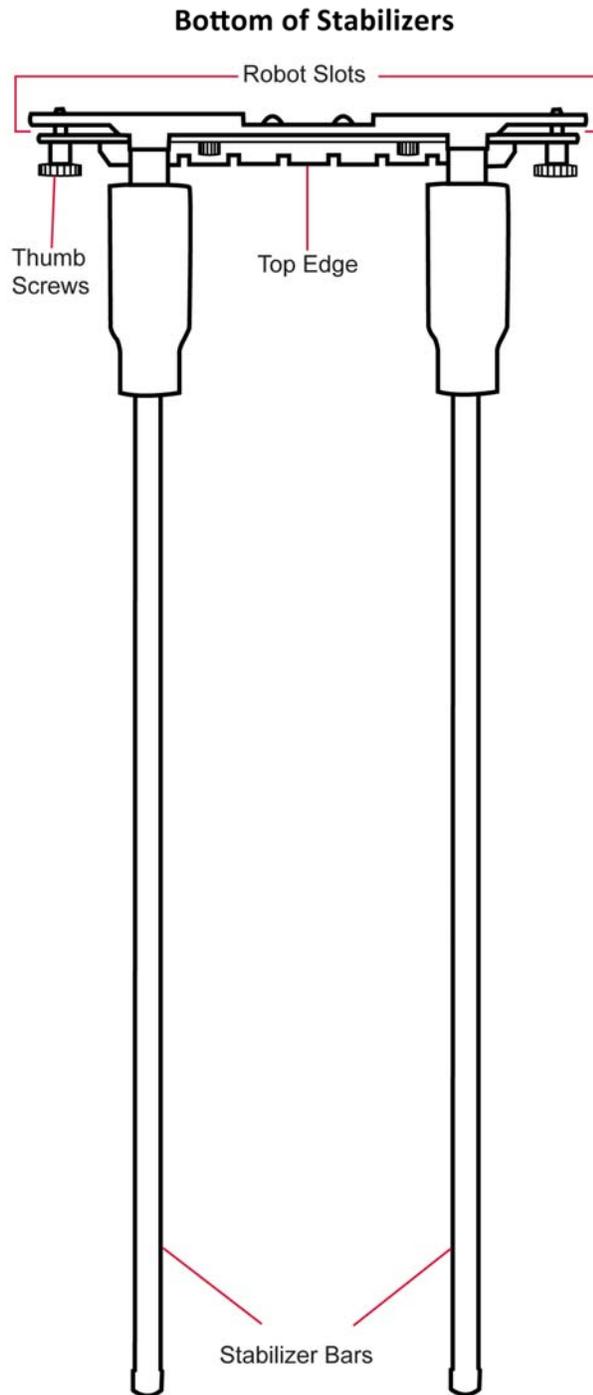
Pressing ‘auto focus’ allows the PTZ camera to optimize its focus automatically.



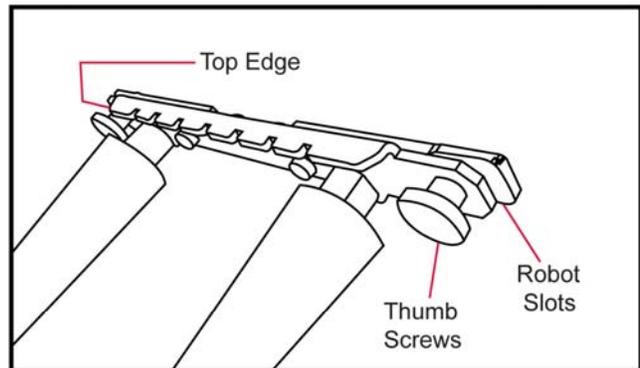
- Defrost Fan On/Off – pressing this will turn on a defrost fan inside the PTZ. It will help clear the view when PTZ dome starts to get fogged.

To turn off the defrost fan, press ‘Defrost Fan Off’ icon.

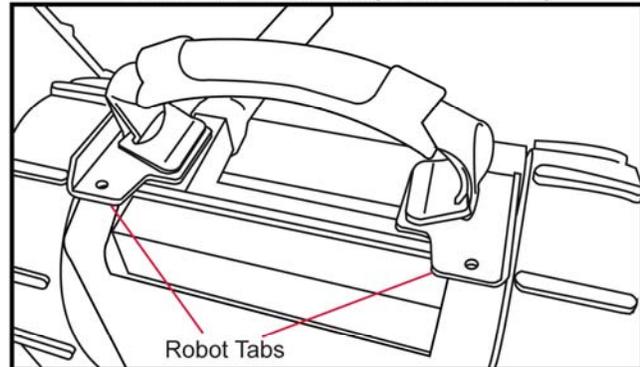
Stabilizer Bars Quick Start Guide



Top Side of Stabilizer Bars (Connecting End)



Back End of Robot (From Below)



To attach the stabilizer bars to your robot, you first need to remove the thumb screws. With the top edge facing up, slide the robot tabs on the robot down into the robot slots in the stabilizer bars. You want to make sure the holes in the tabs line up with the holes on the stabilizers and the top edge is braced against the robot. Screw in the thumb screws until they are tight.

Maintenance Checklist

A) Pre-use Checklist:

- Ensure that all components are attached properly.
- Ensure that the controller antenna is tightly attached to the correct port.
- Ensure that the robot battery is firmly secured and the battery door completely closed.
- Ensure that the tracks are not damaged and are free of debris.
- Ensure that the robot camera lenses are properly cleaned.
- If the Avatar® III has been out of use for a long period of time, ensure that the Controller and Robot batteries are fully charged.
- Do a pre-run test drive in a safe area to ensure the signal does not have interference that may compromise robot functionality during a mission.

B) Post-use Checklist:

- Turn off the controller when the Avatar® III is not in use.
- Take the battery out of the robot when the robot is not in use and store in a cool, dry place.
- After using the Avatar® III, it is necessary to perform routine basic maintenance. Failure to perform maintenance may damage parts and increase wear.
 - Ensure that all components are dry and properly wiped clean.
 - Ensure that the side cooling fan is not obstructed with debris and spins freely.
 - If the robot is particularly dirty, spray the robot with garden hose. If you are using a hose with a nozzle maintain a distance of 3 feet from the robot. You can also use canned compressed air to blow dust and debris off the robot. Use hand soap to remove additional grime. *Do not use a pressure washer, abrasive cleaners, or an air compressor on the robot, as this may damage the robot's water sealing gaskets.*
 - Check for any damaged or worn-out parts that need to be replaced or repaired before the robot's next use.

Troubleshooting



MAKE SURE THE ROBOT AND CONTROLLER ARE BOTH POWERED OFF BEFORE REMOVING

OR INSTALLING ANY COMPONENTS OR ACCESSORIES.



Improper assembly and setup may cause the Avatar® III to malfunction. Ensure that the following parts are connected tightly and securely:

- Controller Antenna
- Battery (door is closed)

If the Avatar® III is still not functioning properly, try the following:

- Turn off the controller.
- Power the controller back on.
- Remove and reinsert the robot battery, ensuring that the connectors align.

If the reboot still does not solve the problem, please refer to the following list of common problems and solutions. If problems persist, please contact Customer Support or your Account Manager.

A. The robot has range or signal strength problems (ex. less than 50 yards line of sight) or will not connect to the controller.

1: Strong radio devices in the area may be running at the same frequencies that the robot uses. Some houses with stucco and wire mesh are difficult to penetrate with radio signals. Try moving closer to the robot or moving away from possible sources of radio interference.

2: Try to keep the robot with its antenna right side up. If the robot has tipped over it will lose a significant amount of range. In some cases, the range can be cut to 10-15% of normal. It can usually be righted by manipulating the flippers.

3: Hold the controller as upright as possible. The controller antenna should be kept perpendicular to the ground for maximum range and signal strength.

4: Other non-Robotex robots may cause interference. Try moving the Avatar® III away from the other robot.

5: If a red “X” is displayed over the signal strength indicator on the controller screen, the robot radio may be having a problem. First try turning the robot off and on by removing and reinstalling the battery. If this does not solve the problem try removing the robot radio. To remove the robot radio, first be sure that a battery is not installed in the robot. Remove the robot radio by loosening the two large flat head screws on either side of the handle at the back of the robot. Once the screws are loose, pull the handle and the entire robot radio with the antenna will come out of the robot. Be sure that the electrical connectors on the robot radio and the corresponding connectors on the robot are clean. Reinstall the robot radio by hand, being sure that the robot radio is fully seated, then tighten the two flat head screws firmly and test to see if the problem is resolved. If the problem persists call our Customer Support line.

6: If a yellow triangle is displayed over the signal strength indicator on the controller screen, the controller radio may be having a problem. First try turning the controller on and off several times. If this does not fix the problem, try removing and then reinstalling the controller radio. First, be sure that the controller is off. To remove the controller radio, loosen the two flat head screws on the back side of the controller. Once the screws are completely loose gently pull/pry the controller radio off of the controller. Be sure that the electrical connectors on the controller radio and the corresponding connectors on the controller are clean. Reinstall the controller radio by seating the radio by hand then tighten the two flat head screws firmly and test to see if the problem is resolved. If the problem persists call our Customer Support line.

B. The Pan Tilt Zoom camera does not work.

1: Try using the PTZ camera reset feature on the controller.

2: Remove the battery then remove and reinstall the PTZ camera. To remove the PTZ camera, loosen the 4 flat head screws at each corner of the PTZ camera. When all 4 screws are loose, pull up on the camera and remove it from the robot. Be sure that the electrical connector on the PTZ camera and the corresponding connector on the robot are clean. Reinstall the PTZ camera by making sure that it is fully seated by hand, then tighten down the 4 mounting screws and test to see if the problem is resolved. If the problem persists call our Customer Support line.

C. The flippers are blocking the battery door.

1: The flippers need to be moved away from the battery door. Normally the front flippers are loose right out of the box. If the front flippers (those by the front glass and three lenses) are locked into place, place a knee on the front of the robot (on top of the front payload port) and pull both flippers in tandem toward you. It is OK to apply some force. Repeat for the rear set of flippers if necessary. Do this in tandem until the flippers pop and move freely or are out of the way of the battery door.

D. The robot has trouble climbing stairs.

1: The robot is not meant to climb stairs at full speed. Switch to Low Speed Mode (See page 14) while climbing stairs.

2: After climbing the first step, make sure the front flippers are positioned as though flat against the ground. Hold down the flipper control knob until flippers are flat.

3: The robot may have difficulty climbing certain kinds of stairs (slippery metal stairs and those with slick edges when wet). Dry off the robot and attempt again.

4: The robot will not be able to climb up the first step if the flippers are not manipulated correctly. To climb stairs, put the robot in low gear. Position the front flippers so that the tip of the flippers will be above the leading edge of the first stair. Slowly approach the first stair until the front flippers are touching the leading edge of the first step, and then lower the front flippers, lifting the front of the robot, until the flippers are in a "flat" position. Now slowly drive the robot up the stairs.

5: Some stairs are too steep for the robot to climb. A set of High Angle Stabilizers came with your robot. They can also be purchased separately. They are to help climb especially steep sets of stairs and taller objects. Contact RobotEX for more information.

E. After removing the robot from the case, the Controller does not turn on.

1: The Controller loses charge when left sitting unused for a long period of time; it may have fully discharged in shipment or after sitting unused in the case. Try recharging the Controller for 2 or 3 hours before using it again. The controller is fully charged when the red LED light turns off or flashes red. You can also use the

robot while it is plugged into an external power source. If the problem persists, call our Customer Support line.

F. The robot does not power on when a battery is installed.

1: Check to see that the battery is not completely discharged.

2: Be sure that the connections on the battery are clean and that the corresponding connections on the robot are clean.

3: If the robot or battery is wet when the battery is inserted, water may get into the battery connector and prevent the robot from powering up. Use canned compressed air or a hair dryer to dry the connectors on the battery and the corresponding connector on the robot. It may be necessary to let the robot dry for 24-48 hours before attempting to use the robot again.

4: Check the red power button on the left side of the robot. It should move freely. If it does not move or it is jammed, try moving the metal shroud that covers the cooling fan by hand. It may be necessary to remove the metal shroud and clean any dirt or debris from around the red button. If the problem persists, call our Customer Support line.

Customer Care

RoboteX, Inc. is committed to providing excellent customer support. As an Avatar® III owner, you will have a dedicated Account Manager that can provide support and troubleshooting assistance.

If you have questions or comments about the Avatar® III, contact your Account Manager directly. If you do not have an Account Manager or do not know if you have one, contact us directly at our Customer Support line.

Customer Support Contact:

Telephone: 650-251-4958

Email: support@robotex.com

Website: www.robotex.com

Customer Support Hours:

Monday through Friday 9am to 7pm – Pacific Standard Time

Saturday 10am to 6pm – Pacific Standard Time

For after-hours calls, please contact your Account Manager directly.

**For downloadable user
manuals for the AVATAR III
and accessories, please visit:**

<http://robotex.com/user-manuals>

Password: RobotexCustomer

Warranty and Maintenance

The Avatar® III is covered by a three-year warranty on parts failures. This does not cover damage caused by user error or mishandling of product. Contact your Account Manager for warranty claims and questions.

Warranty Contact

Attention – Warranty Support
RoboteX, Inc.
433 Lakeside Dr.
Sunnyvale, CA 94085
650-251-4958
support@robotex.com

Maintenance Options

Complete maintenance service is available. Avatar® III-certified repair technicians perform module replacement and rebuilding at our maintenance facility in Silicon Valley. Labor is charged at an hourly rate depending on the required service.

Contact the RoboteX Service Department for more information:

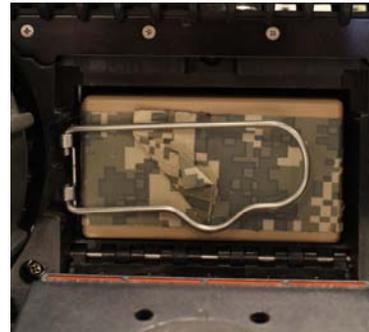
Attention – Service Department
RoboteX, Inc.
433 Lakeside Dr.
Sunnyvale, CA 94085
650-251-4958
service@robotex.com

Protect Your Robot

 There are a few important practices you should follow when using the Avatar® III on a regular basis. Failure to do so may damage your robot.

 Before switching/removing payloads on the robot, make sure the robot battery is unplugged.

 Please make sure the battery ejector bar is fully folded (over the top of the battery) before locking the battery door of robot.



 Please use RoboteX-certified batteries ONLY. Other types of batteries might permanently damage the robot, even though they have a similar form factor that will fit inside the unit.

 There is ONLY ONE removable antenna on the controller. Please don't put it on the wrong port (the correct antenna port is UNCOVERED).

 Please make sure that the front flippers are flat when operating the arm. The easiest way to flatten the flippers is to hold down the flipper control knob until the flippers stop moving and are positioned flat against the ground.

 While transferring recorded videos to USB, please don't unplug the USB stick before the system finishes downloading files to it.

 Please make sure that the 5 metal pads on the battery (shown below) are exposed and clear of dust or dirt. If there is a label covering these pads, please remove it before use. Failure to do so might cause the robot not to power on reliably.

