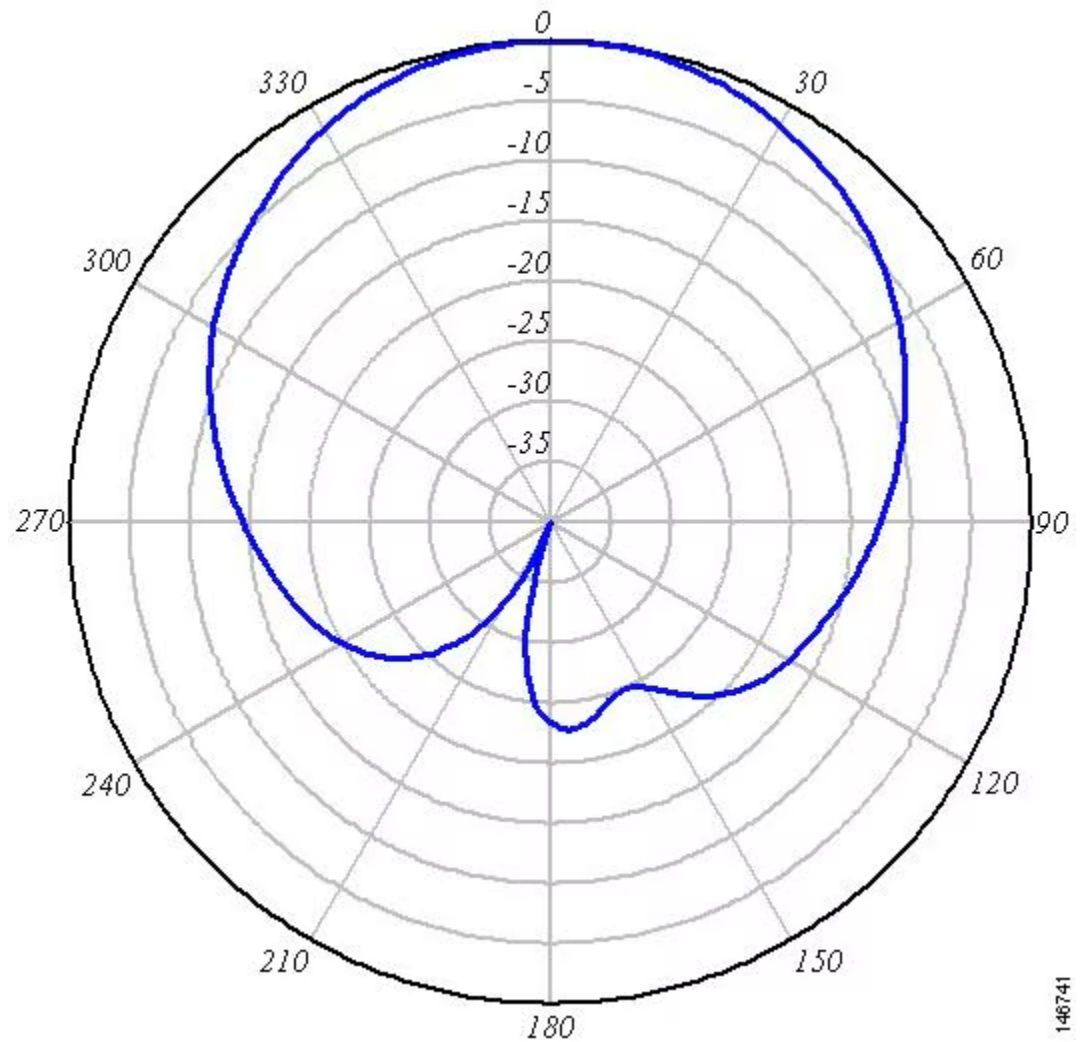


Portable Target System Connectivity Guide



Introduction

Thank you for your recent purchase of AutoTargets™. We sincerely appreciate your business and hope it improves your shooting experience as much as it has our own.

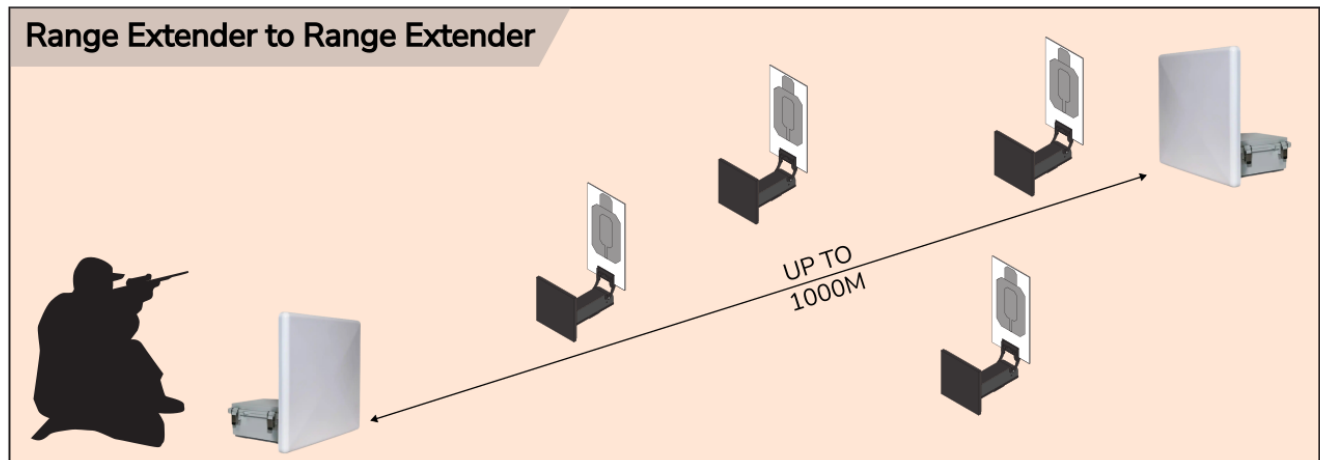
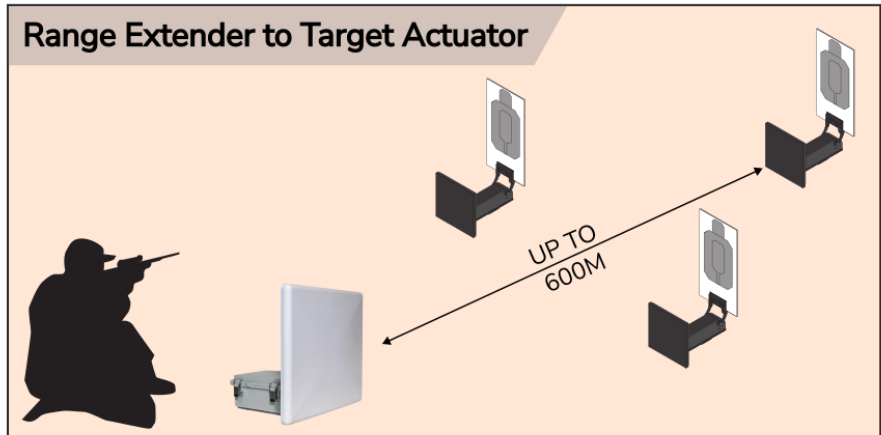
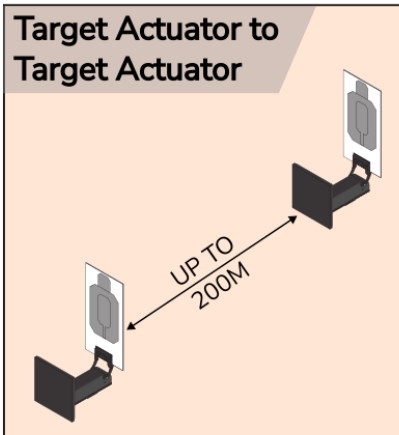
Should you have any questions please feel free to contact AutoTargets™ technical support at support@autotargets.com, or for urgent matters call us at **215.948.2422**.

Steps to Setting Up a Successful Portable AutoTargets System:

1. Check distances of devices (see **Recommended MESH Connectivity Distances**)
2. Turn on the **Server** (See **System Architecture Vocab** table) device.
3. Connect tablet (or other smart device) via Wifi
4. Open AutoTargets App
 - 4.1. Confirm Connection to **Server**
 - 4.1.1. Device is highlighted orange
5. Turn on other devices
 - 5.1. Make sure they connect successfully
 - 5.1.1. Devices are highlighted orange
6. Test **Targets'** connection on tablet
 - 6.1. Are they all working as **Mesh Nodes**?
 - 6.2. Do they go up and down from the tablet?
7. If devices are staged at different distances over a large area
 - 7.1. Reconnect tablet to closest **Relay**
8. Confirm operation
 - 8.1. Quickly start and stop a scenario using all targets.
 - 8.1.1. Does the system stay stable and responsive?
 - 8.1.2. Do the targets lift and fall at the same time?
 - 8.1.3. If not, see troubleshooting below.
9. Begin Training!

System Architecture Vocab		
System Architecture	Devices Used In	Function
Mesh Node (Repeater)	Target Actuator (Lifter), Range Extender	Creates a web of communication for all devices that are connected to the "Mesh".
Server	Target Actuator (Lifter), Range Extender	There is only one device that can be the server, it designates the parent device in a network group. Generally, the first device you power on, is designated the server. It should be the AutoTargets device that has the best, most reliable network connectivity to as many other devices as possible. (See examples)
Relay	Target Actuator (Lifter), Range Extender	This is the device that tablets, smartphones, or any other smart devices are connected to via WiFi (it bridges Android App traffic onto the mesh).
Target	Target Actuator (Lifter)	The child devices on the network whose main objective is targetry and data collection.

RECOMMENDED MESH CONNECTIVITY DISTANCES



Device Use Distances		
Comm Device 1	Comm Device 2	Typical Dist LoS (M)
Target Actuator (Lifter)	Target Actuator (Lifter)	200m
Range Extender	Target Actuator (Lifter)	600m
Range Extender	Range Extender	1000m

Wifi Mesh Troubleshooting Guide:

This guide assumes you have read the "AutoTargets Portable Setup Guide" and have a basic understanding of the AutoTargets system. If not, please read over the "AutoTargets Portable Setup Guide" for more detailed information.

- Check the physical items and connections
 - Batteries charged and securely plugged in
 - HPA tanks filled and adjusted to the proper PSI
 - Wifi antennas installed properly
 - Screwed on tightly without being cross threaded
 - Stowed in the up position using the stowage connector
 - Lights on the front panel

	Color Meaning	Troubleshooting
Power 	Off = No power	Check battery connection; batteries may need to be charged.
	Red = Power to the unit	None
System Check 	Amber = System check initialized	If the light does not turn green after a few minutes, higher echelon troubleshooting may be required.
	Green = System check successful	None
Connectivity 	Off = Awaiting System Check	If the light does not turn green after a few minutes, higher echelon troubleshooting may be required.
	Green = Connection established	None
Error 	Off = System is operational	None
	Red = System is NOT operational	Higher Echelon Troubleshooting Required

- Environment
 - Obstructions
 - Make sure there are no physical barriers directly blocking the wifi antenna
 - Interference
 - Make sure potential sources of electromagnetic interference (microwaves, high power cables, other radio antennas) are not in between devices.
 - Distance
 - Make sure devices are at the recommended distance from each other
- Check the network connections
 - Tablet is connected to a Server and/or Relay via Wifi
 - The devices are connected
 - See all the devices on the App
 - All devices are highlighted orange
 - High signal strength on all devices
 - Devices maintain connection, do not drop in and out.

Troubleshooting Chart		
Symptom	Possible Cause	Possible Solution(s)
No devices in App	Devices are not powered on	Verify device batteries are charged and connected properly.
		Verify the device has been powered on, confirm via the lights on the front panel.
	Tablet not connected to Mesh Network	Verify Wifi connection to Server and/or Relay. If prompted about being on a network with no internet, select "Always Connect Anyways".

		Verify the tablet is within range of the connected Server/Relay. Move closer to the connected device or choose a closer device to connect to.
	Devices are running through internal system check	Give the device a few minutes to complete its internal system check.
Devices drop in and out	Damaged or loose Wifi antenna	Verify antenna installation. Make sure the antenna is tightly secured without being cross threaded.
		Check for damages by swapping the antenna in question for a known working antenna.
	Out of range	If only using target actuators, move the devices closer or use a range extender.
		If using a range extender, make sure it is placed in a position to cover all other devices.
		If using multiple range extenders, make sure they cover the other devices. This includes at least one other range extender.
	Obstructions and interference	Be aware of any walls, environmental obstacles, and interferences that could hinder the Wifi signal.
		Consider repositioning the device(s) and/or use of a range extender.
	Damage to Wifi board	Ensure the Wifi link status light (3rd light that looks like a chain

		link on the front panel) is green. Open cover and inspect Wifi board (top narrow board) for a blue flashing light. If either of these lights are not on, contact support.
Devices in bar are grayed out	Split Mesh	Power off the gray device and power back on in the range of the other devices.
	Device is connected to another mesh network	Consult the AutoTargets App User Guide for mesh network changes.

We Recommend...

- Reading the Product Manuals for each of the AutoTargets™ products in use.
- Reading the AutoTargets™ App User Guide.
- Batteries have a full charge before operation.
- HPA bottles have a full charge before operation.
- If your mesh network consists only of target actuators, we recommend choosing the most centralized unit as the server.
- When connecting your tablet (or smart device), we recommend choosing the closest target actuator to be your relay.

FAQ

Q: Can I choose my server from the app?

A: No. It's whatever target actuator you turn on first.

Q: Do I need to refill using CO2?

A: No. Current portable target actuators use High-Pressure Air (HPA) .

Q: Can I use my own batteries?

A: No. Non AutoTargets™ approved batteries will cause damage to the target actuator.

Q: Can I get AutoTargets™ App on iPhone

A: No. The App is not supported on iOS.