

# ShotMarker Instructions (v. 1/2025)

This short guide is intended to supplement information received at the High Power range orientation. Range orientations are conducted after each match (except for the GSM and AR-Tactical matches) concluding at the 600/1000yd firing line. A High Power range orientation must be completed before using the High Power range.

There are 5 pieces of equipment necessary for the ShotMarker system to function:

1. Access Point (abbreviated AP)– Transmits a Wi-Fi signal by the name of ShotMarker, and communicates with Sensor Hubs and smart devices
2. Sensor Hub (abbreviated SH)– collects data from sensors and communicates with the AP
3. Sensors (4) – units with two microphones each, which work in conjunction with each other to triangulate shot locations and provide other data transmitted by cable to the SH
4. Cables (4) one for each Sensor, connects Sensors to the SH
5. Smart Device (iPad, iPhone, android phone or other tablet) – your personal device that connects with the AP to show your shot locations on the target

ShotMarker (abbreviated SM) systems are set up and available for your use on the High Power range at both the 600yd butts and the 1000yd target area, but you must take a few steps to bring them on-line.

## SM Set-up:

1. **Place a target in a pre-wired SM target carrier:**
  - The 1000yd target area is a SM only area wherein there is no option to operate targets manually. All target in the storage container are specifically for SM use. Simply unlock and open the container then place one of the targets into a target carrier by inserting it from behind. Note that only U.S. Long Range, and Long Range F-class targets are available – no other targets or modifications of any sort may be used at the 1000yd target area.
  - At the 600yds butts the target carriers are prewired for SM targets but may also be operated manually. In the east side of the target shed are three SM designated targets. Target faces are the U.S. SR-1(200yd), SR-3(300yd), and MR-1(600yd). These targets may not be modified in any way and are only for use with the electronic system. Choose one of these targets and insert it in a SM target carrier from the front.
2. **Set the bottom Sensors:** At the 1000 no additional physical setup is required. At the 600, the bottom two Sensors must be moved from the storage position (on the sides of the target carrier's steel frame) to their designated magnetic brackets mounted on the front of the target carrier. When moving sensors, ensure cables are securely inserted in the sensors. These sensors are stored to the sides of the brackets to reduce the risk of them being knocked off when targets are carried down the target line. Be sure to return these sensors to the side positions before you leave the range.
3. **Turn on the SH:** For both the 1000 and 600, open the ammo can at the base of the target carrier. A SH is wired into the ammo can and may not be removed. Turn the sensor hub on by pushing the red button one time. The LED on the SH should begin blinking green then go to constant on, or if the SH is currently taking a charge from the solar charger, the LED will be a darker blue which will change to a brighter blue when the SH is turned on, and it may even blink a bit until it makes a connection.
4. **Turn on the AP:** Unplug and remove the AP from its designated ammo can (the small ammo can to on the left side of target carrier #25) and turn it on in the same manner as you did the SH. It too has an LED which will initially blink then remain constantly lit when a WiFi signal (named Shotmarker) is transmitted. This may take a couple minutes.

5. **Connect your smart device** to the Wi-Fi signal “Shotmarker” by going to Settings and WiFi on your device.
6. **Connect to SM URL:** There is no application to download. Open a browser on your smart device (on my iPhone and iPad I have had the most luck with Safari) and on the address line type in the following 192.168.100.1 - this will take you to the SM interface. If you have a problem connecting, it may help to turn your device to Airplane Mode in Settings. For some reason we have found that some devices have trouble pulling up and functioning with the SM system, so be prepared to experience a little trial and error until you get it up and running. If you still have problems connecting, we have found that deleting your browsing history may fix the problem. Many of us who frequently use the SM system have a tablet device which we only use with the system. We have found that Apple™ devices work best with the system. This concluded SM set-up.

Take the AP with you to the firing line. Ensure good line of sight between the SM target and the AP so the two can communicate.

Be sure to turn both the AP and the SH off by pushing their red buttons once, and put your target away before you leave. In the case of the 600 systems, move Sensors back to left and right of the target carriers and face them down so rain and debris doesn't get into the microphones.

The SM system you have been provided with has been carefully calibrated for the carriers and targets we use. Keep in mind that reconfiguring any of the settings will likely cause issues for the next guy, so please don't mess with system configuration.

There is much more to the system. If you would like to gain better understating of SM (HIGHLY RECOMMENDED), look online searching for Autotricker which will take you to MacDonald Innovations web site. Clicking “Support” in the main menu will take you to a page with the ShotMarker manual.

In the next four pages you will find excerpts from the ShotMarker Manual with explanations of User Default Settings, Clearing/Saving strings of fire, and Changing Target Faces.

Finally, for the “hands on” kind of guys: If you show up during any of the matches we shoot at the High Power range, we'll be glad to give you a tutorial as we can between firing orders, or after the match. SM training is a part of our orientation process but we understand it's a pretty cursory look, and we have many members who received the orientation prior to us getting SM systems. Showing up before or during a match is a great way to get a clear understanding of the system.