

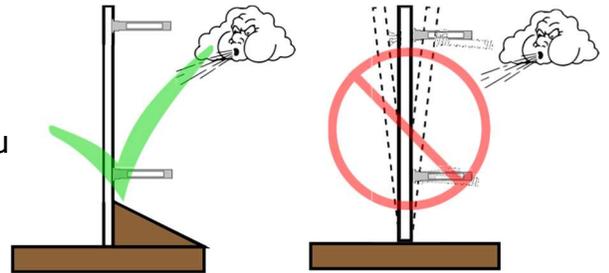
## Quick Setup Guide SOLO-Pac Targets & Server

For help with the **Solo-Pac** targets utilizing a Server, call Dave at 765-427-2753 or Steve at 765-427-4699. Also, detailed instructions on the use of the Server can be found in the “Admin Guide **SOLO** Server System”. **Charge Your Batteries Now**

### Target Frame

You'll need to have a suitable target frame for mounting each **SOLO** system. It can be a manually operated “pit” system, or a fixed frame. A solid frame is the key to repeatable accuracy. You can mount the target equipment on an existing frame, or build a new frame.

1. Your frame should be solid, and not move excessively with wind or bullet impacts. It should be mounted securely, or have a rigid stand if it's portable.
2. It should be large enough so sensors don't get shot and you can easily mount your largest targets. The **T-SOLO** and the lower sensor elements should be mounted below grade, out of the line of fire.
3. Cardboard or corrugated plastic (more weather resistant) work well for a backer board. Coroplast is available at most home improvement stores.



The microphone sensor elements are mounted in the four corners of your target frame, and the **T-SOLO** is mounted near the bottom of your frame, out of the line of fire. The **T-SOLO** panel antenna communicates to the line, and needs to be mounted about 1/3 or 1/2 way up the left side of the frame, with clear line of sight to the firing line. The lower sensor elements should ideally also be below the line of fire if you have pits.

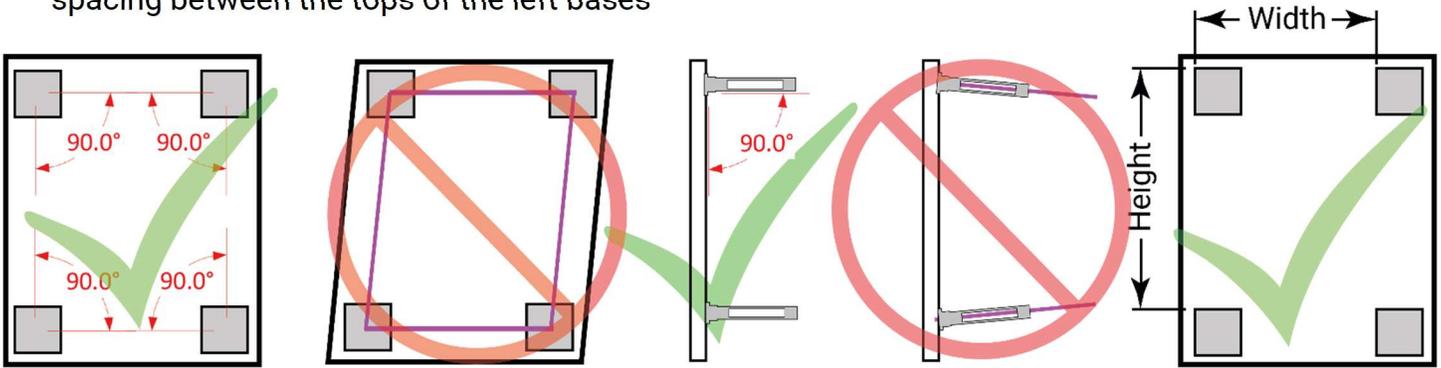
### Sensor Mounting Plates

Good, accurate sensor mounting is the key to an accurate system. There are four white plastic mounting plates that get mounted to the four corners of the target frame. The **SOLO** dual-mic sensor elements then connect to these mounting plates with a simple slide down from the top.

1. Mount these 4 bases to your target using 4 pan head screws per base, and do not over tighten. You **MUST** install the bases at 90 degrees to each other, so they should be rectangular or square.
2. Attach the microphone sensor assemblies to the bases. The sensors are not specific to any corner, but the correct color-coded cable must be attached as shown. They should be mounted in the same plane as each other and the target face, and point at the firing line, being parallel to each other.



- Once mounted, record the horizontal spacing between the left edges of upper bases & the vertical spacing between the tops of the left bases



## Targets

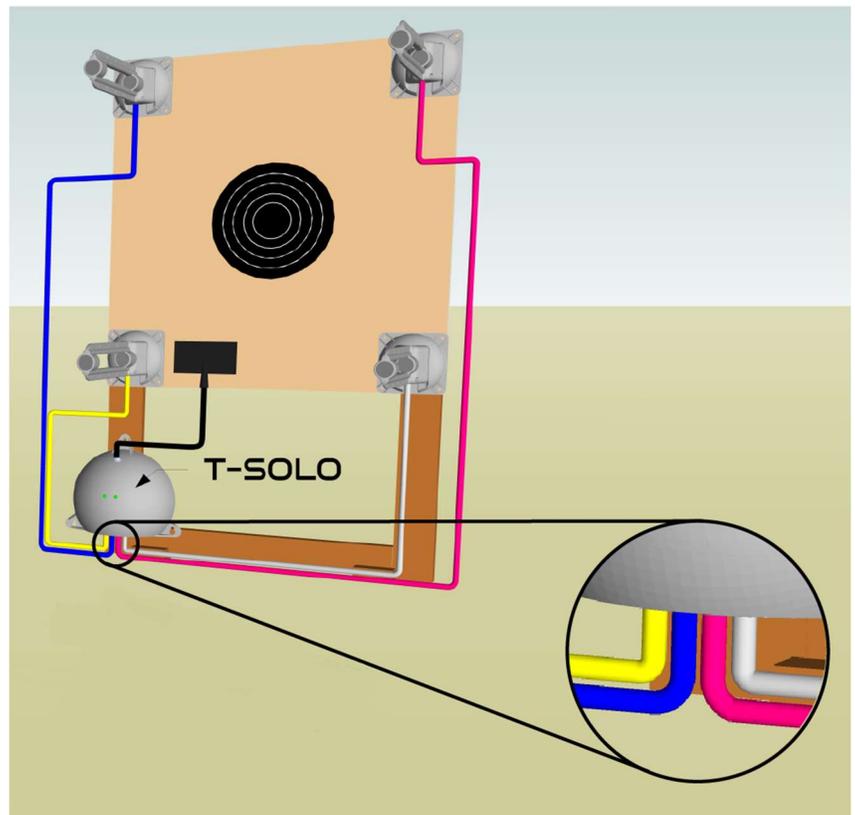
Fasten a paper target face to the frame, roughly near the center of the bases

## Target Wiring

The **T-SOLO** is connected to the sensors with color-coded ethernet cables. It is imperative that you get the correct color cable to the correct sensor and to the correct port on the **T-SOLO**.

Next connect the panel antenna cable to the antenna connection on the **T-SOLO** and the panel antenna. Hang the panel antenna on the left side of the target frame, about 1/3 or 1/2 way up the left side. Keep it as far left as possible to reduce the chance of bullet impacts.

Connect a freshly charged battery to the **T-SOLO**. It needs about 1-2 minutes to fully come online.



## Firing Line

Go to the firing line, connect a freshly charged battery to the Server, and make sure it is on. Face the large panel antenna toward the targets, and ensure it has clear line of sight to each target's antenna.

## Connecting Your Display Device

Almost any display device with WIFI capability and a modern browser (laptop, tablet, smartphone, etc.), may be used to connect to the target system.

- First, connect to the WIFI Network. Choose "Settings", then "WIFI" or "Connections", and look for a WIFI network named **SilverMountainTargets**, and click "connect".
- Open a browser such as Safari, Chrome, or Firefox & in the Address bar, type in the IP address of the Server, 192.168.0.47. The TargetViewer should now load. Note that older outdated browsers may not work correctly, so make sure yours is updated.

## Initial Setup of the System

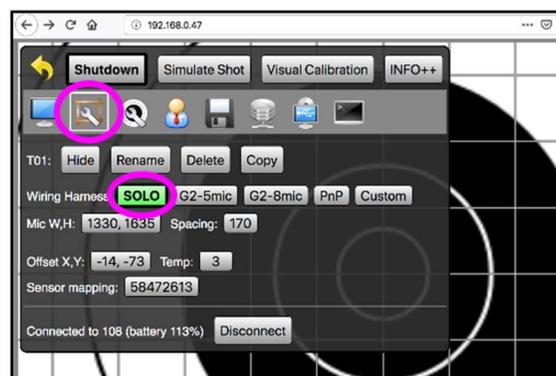
A software “TargetFrame” corresponds to a physical target frame with attached sensors, and carries the associated data needed for the server to gather shot data on that frame. A “TargetFrame” is created by making a copy of an existing frame.

This is needed on initial system installation, or when adding a new target frame. From the Admin menu, click on the Gear icon, then the Frame & Wrench icon



1. Select any existing target frame by clicking on the target across the bottom of the screen
2. Select the “Copy” button
  - A TargetFrame named “new” will be created and selected
  - Status = yellow (offline; not connected to a sensing unit)
3. Select the “Rename” button to name the new frame such as “T01” etc. TargetFrames are sorted alphabetically
4. Choose SOLO as the Wiring Harness type, and the correct Mic mapping and Spacing will automatically be set.

- SOLO is for a **SOLO** system
  - G2-5mic is for a G2 Controller with 5 mics
  - G2-8mic is for a G2 Controller with 8 mics
  - PnP is for a Plug-n-Play System with 8 mics
5. Enter Microphone Width and Height values. This is the distance measured between the left side of the upper or lower mics, and distance measured between the tops of the left or right mics. It provides the system with measurements needed to calculate shot hole coordinates.
    - Measurements need to be entered in mm (25.4 x inches, or 10 x cm)
    - No decimals or commas, and a space between the two numbers, i.e., “1330 1635”
  6. The “Connect to:” button allows the target selected at the bottom of the screen to be connected to a particular **SOLO** target sensing unit. Enter the IP address of the sensing unit such as 112.
    - Status should change to GREEN
    - “Other SOLO” may be used if sensing unit is not currently online



## Settings

1. Target Faces: In Admin mode, select the Gear icon, then select the Target & Wrench icon.  You’ll see all the target files loaded in the system. Click on the ones you want to be active to turn them green.
2. Select Target Face: To select the current face for firing, from the main menu, select the Target & Wrench icon. Choose from available targets.
3. Course of Fire: From the main menu, choose the Whistle & Wrench icon.  This screen provides the Administrator access to sighters, shots on score, F-Class specifics, user privileges for managing strings, and scorecard settings.
4. Admin access is only needed for system configuration data, importing, editing, or deleting data (e.g., adding new hardware, calibration, editing configurations, renaming, etc.). All other common

match functions can be performed by a Range Officer. For details on creating RO users, and specific RO functions, please refer to the “Range Officer’s Guide”.

5. For more details on Admin functions, please refer to “Admin Guide Solo Server System”
6. Recommended Server settings on these two screens



## Calibration

Use these procedures to align the e-target’s coordinate system with the physical center of the installed target face. This should only be required on the first installation of sensor mounts, or if the physical target center has moved.

1. Set up the physical target frame for shooting, using a new target face, or paste all holes
2. Fire one shot within 10” of the center.
3. Go to the physical target and find the bullet hole in paper
4. From the Admin menu, select the Frame & Wrench icon
5. In the ShotsList Column, select the shot that was fired.
  - a. Measure the location of the bullet hole center, on the physical target. As an option, you may draw vertical and horizontal reference lines to assist in measuring
  - b. Record the bullet position as two numbers, X and Y coordinates.
    - i. The X coordinate is how many millimeters the bullet is to the RIGHT of the vertical centerline. If the bullet is LEFT of the vertical centerline, your X coordinate will be a negative number
    - ii. The Y coordinate is how many millimeters the bullet is ABOVE the horizontal centerline. If the bullet is BELOW the horizontal centerline, your Y will be a negative number
  - c. Click the “Measure” button in the ShotsList column for the calibration shot. Enter your X and Y values, separated by a space. As an example, “154 73”
  - d. CONFIRM that the calibration shot is now shown in the correct position. If not, cancel the shot from the calibration and repeat the calibration by selecting the “measure” button again.
6. Note, shot(s) used for a calibration offset calculation are highlighted in yellow, in both the ShotsList and screen display
7. The CANCEL button can remove a shot from calibration calculation

For more information, please contact Dave or Steve at Silver Mountain Targets USA, or log onto the SMT corporate site [www.SilverMountainTargets.com](http://www.SilverMountainTargets.com)