

Target Turner System with voice commands.

User Manual

V3.0

2022-03-01





Target Turner System (TTS) is designed to assist with Bullseye and some ISSF disciplines' practice. The system is portable and can be set at the range in minutes. The target turner box is mounted on a vertical surface or tripod. Standard NRA-style voice commands are given for Bullseye slow, timed, and rapid-fire courses. The 'Attention' command is given for ISSF rapid (8, 6, and 4 sec) and 3/7 fire courses. The system is controlled by a smartphone or tablet.

Available modes:

- Bullseye: Slow (10 min), Timed (20 sec), and Rapid (10 sec).
- ISSF: Rapid (8, 6, and 4 sec). Women Rapid (3/7 sec).
- Drills: Variable face time

The system consists of:

- Target turner servo box
- Tripod mounting bracket
- Rod and rod support
- Target holder and backer
- USB Battery pack

Mounting System

The system is designed to be mounted upright or upside down depending on the mounting support. The 8 mm fiberglass rod connecting the main unit with the target holder is 12 inches long. The provided box holder can be mounted on the tripod as well. Longer rods are available at the hardware store. Rod support can be used to provide better alignment especially when longer rods are used.

Power supply options

The target turner box is powered by the velcro attached USB power bank. Most USB power banks with 8000-10000 mah capacity will work with the system. The turner can also be powered by a USB phone. A single charge should last for about 20hour of continuous use.

Wi-Fi connection

To connect to the turner plug the cable into the USB bank and push the top power button. Once powered it will create a Wi-Fi network named **TargetTurner...**. Find the network in the phone's Wi-Fi menu and connect to it. Default password '01234567'. Then open the browser and enter the address **192.168.4.1**. Once connected you will be presented with the Target Turner controller menu. Go to the Bullseye menu and try Face/Edge target commands.

In some cases, the phone or tablet will disconnect from the target turner's Wi-Fi network since the device will not be able to connect to the internet. Reconnect the device to the Wi-Fi network to force it to be connected to the turner. On an iOS-based device, you might be presented with a choice to try a cellular connection or keep trying Wi-Fi. Select keep trying Wi-Fi. If the issue persists you might want to temporarily disable the cellular connection.

Target Turner System

Bullseye

Bullseye

Start Slow Fire

ISSF

Start Timed Fire

Drills

Start Rapid Fire



Settings

Face Target

Edge Target

AA

192.168.4.1



AA

192.168.4.1



Connecting multiple targets

Multiple target turners can be connected to operate as one. One of the systems needs to be configured as primary to send the command to other turners. Go to the Settings menu and enter the MAC address of other devices into the boxes Target 1 through 10. Save the settings. The system will restart and you might need to reconnect to the Wi-Fi network. Once reconnected to the Wi-Fi, go back to the Settings menu and verify the status of the connected systems. If the other target system is connected you will see the OK status. Make sure failed systems are in range and powered up. To retry the connection please restart the primary unit. The connection test is only done during the initial start.

Settings

Software version: V1.316

| | |
|---------------------|---|
| Load command sec: | <input type="text" value="10"/> |
| WiFi ID: | <input type="text" value="target_76DC"/> |
| Device MAC address: | <input type="text" value="58:BF:25:18:76:DC"/> |
| Target 1: | <input checked="" type="checkbox"/> <input type="text" value="78:21:84:7F:89:C4"/> OK |
| Target 2: | <input checked="" type="checkbox"/> <input type="text" value="01:02:03:04:05:06"/> Failed |
| Target 3: | <input type="checkbox"/> <input type="text"/> |
| Target 4: | <input type="checkbox"/> <input type="text"/> |
| Target 5: | <input type="checkbox"/> <input type="text"/> |
| Target 6: | <input type="checkbox"/> <input type="text"/> |
| Target 7: | <input type="checkbox"/> <input type="text"/> |
| Target 8: | <input type="checkbox"/> <input type="text"/> |
| Target 9: | <input type="checkbox"/> <input type="text"/> |
| Target 10: | <input type="checkbox"/> <input type="text"/> |

AA 192.168.4.1 ↻

ISSF Green/Red light

Optional Green/Red light can be connected to the system for ISSF disciplines. The light needs to be controlled by the primary system. Connect the light to the primary system with the steps above.

Attention. Read the fine print.

We all strive for perfection, but accidents happen and bullets fly into the things we did not intend to hit. Or maybe your friend is trigger happy and the bullet hits the turning target box. In most situations, it would be the end of the target turner.

But wait! We don't want you to cry over the target turner. In the first 7 days of purchase, you can buy **accident insurance** from us for just \$30 (just 10% of the turner cost). It covers the target turner for 3 years. In the unlucky event of accidental damage (bullet hit, drop on the floor, run over by a car..) we will repair or replace your unit. Just ship the damaged unit to us and we will ship you a working one. The consecutive claims would require a \$50 'repair' fee. Maximum three claim during the coverage period. It is still way cheaper than purchasing a new unit !!! So don't delay. The accident protection is only available in the **first 7 days** of the turner purchase.

Warning: Plastic components are 3D printed with PLA material. The plastic is temperature-sensitive, do not store the system near the heat sources.