www.pentashot.eu

S-Box Connect target

DESCRIPTION AND OPERATING MANUAL

Pentashot EU s.r.o. 2020

CONTENTS

SAFETY NOTES AND IMPORTANT INFORMATION

- This manual MUST be read before first use.
- Use ONLY approved power sources — otherwise the target may be destroyed.
- It is forbidden for an unauthorized person to tamper with the device's construction — this can destroy the target.
- Handle and attach the target carefully — falling due to wind or improper attachment can destroy the target.
- Protect the target's power supply against weather, especially rain and high temperatures.
- Do not use a damaged power source for the target — electrical current may cause injury.
- Keep the target and power source out of the reach of children.
- Store in a dry place with a minimum temperature of 5°C.
- In the event of a malfunction, contact the manufacturer or your authorized representative/dealer.
- Only PENTASHOT external lights can be used with this target.
- The laser target is opto-electronic equipment and dismantling it is forbidden!
- When the target is used in a room with artificial light, the target may not function properly if the light source has a frequency of 40 kHz.
- Shooting with a laser emitter with lesser quality optics from less than 5 metres in low light can cause incorrect shot evaluation results.

DESCRIPTION
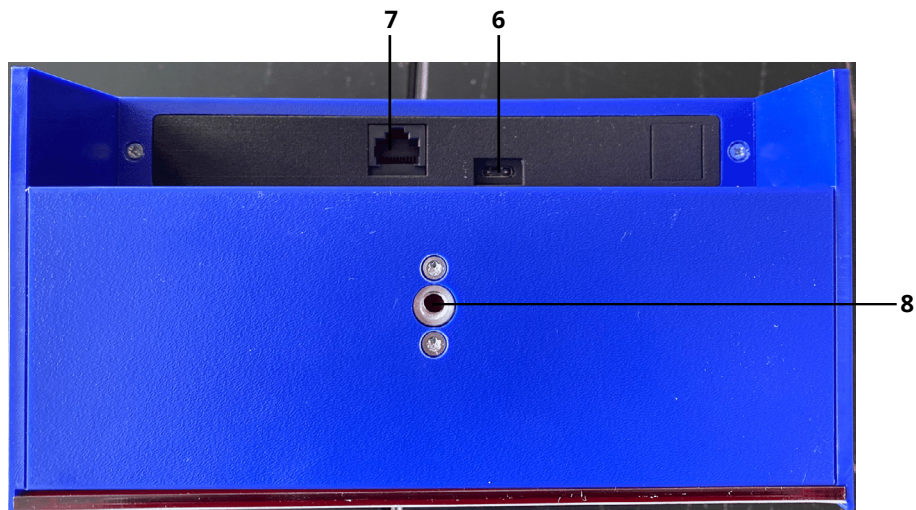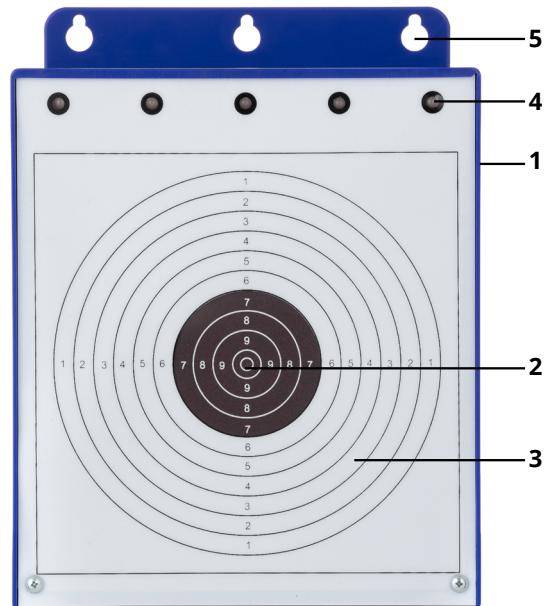
1	Target
2	Hit zone
3	Miss zone
4	Built-in signal lights
5	Mounting holes
6	USB-C connector for power supply or power bank
7	UTP connector for external signal lights
8	Tripod fitting

PURPOSE

The S-Box Connect target is for instruction, training and competition specifically for sport laser shooting. The target precisely evaluates contact of the laser beam on the target surface. A shot to the hit zone (2) is signalled when a green built-in signal LED lights up (4). A shot to the miss zone (3) is signalled when a red built-in signal LED lights up. The shooting time is set according to the mode used. The target is powered by the electrical grid or a power bank (CAUTION: USE ONLY A POWER BANK WITH THE PARAMETERS LISTED IN THIS MANUAL! ANY OTHER MAY DESTROY THE TARGET!).

PREPARING THE FOR USE

The target can be mounted to a tripod using the fitting on the bottom (8) or to the wall (or other vertical surface) using the integrated hanging system (5). The target can also be placed on a horizontal surface. The target must be attached firmly and stably, especially in windy weather. Falling on the ground can damage the target.

Connect the power supply cable to the USB-C connector (6) on the target. Then plug the power supply into the socket. The built-in LEDs (4) on the target start flashing. After about 40–50 seconds, the LEDs go out and the target is ready to connect to your device — smartphone or tablet. Your device must have an Android or iOS operating system with the Bluetooth function turned on. After the application is turned on, the target number displays, which is the same as the serial number on the back of the target. After you tap the number of your target, the basic application menu appears. There it is possible to choose from three different modes for shooting, settings and results.

The target can be turned off from the SETTINGS menu by pressing the SWITCH OFF button. Shut-off is signalled by gradual dimming of the signal lights and an audible signal. The target can be physically shut off by unplugging the power supply from the USB-C connector on the target.

UPDATE FUNCTION

Updates to the application are displayed in Google Play (Android) and the AppStore (Apple iOS).

CONNECTING EXTERNAL LIGHTS

The target can be connected only to PENTASHOT or NAVISTREET external lights through a UTP cable into the connector for the external lights (7) on the target.

PLACING THE TARGET

The target should never be placed where sunlight directly reaches the target surface, because this will disturb its operation.

# OPERATING THE TARGET APP FOR IOS

ESTABLISHING COMMUNICATION

After the target is connected to the power supply, communication should automatically be established between the target and your phone/tablet — the target number will display. Tap the target number and the application goes to the menu.

Automatic target shut-off: About 40 minutes after the last activity on the target, it automatically shuts off.
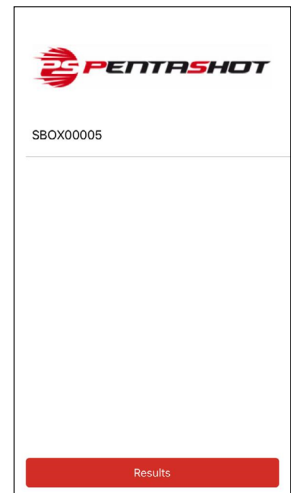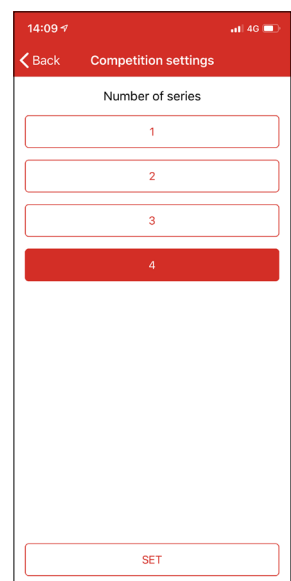
TRAINING – Tap to link to this mode.

This mode allows shooting without limiting the time or number of shots. Three built-in signal LEDs show HIT or MISS. Green means HIT, and red means MISS. Results are not saved in this mode.
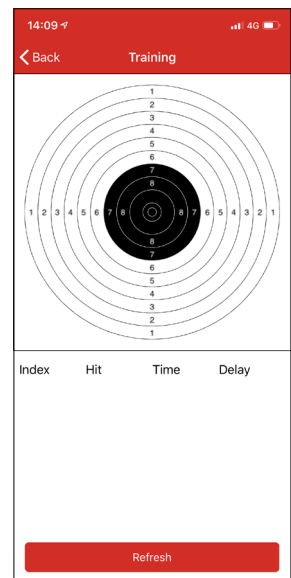
COMPETITION – Tap to link to this mode.

Shooting time is limited to 50 seconds. The series ends with five HITs before time is up or shooting time expires. For identifying a HIT or MISS, LEDs of a specific colour go on. A HIT is always indicated by one green LED for each shot. A MISS is indicated by all remaining LEDs flashing. In this mode, the number of rounds can be set from 1 to 4, and the results are stored under RESULTS in the main menu.

INDIVIDUAL – Tap to link to this mode.

Shooting time can be set between 10 and 60 seconds. You can also set the number of possible shots (MISS and HIT) from 1 to infinity. The number of rounds can also be set, from 1 to 4. And the HIT ZONE can be modified from circle 1 to circle 10. The results are stored under RESULTS in the main menu.
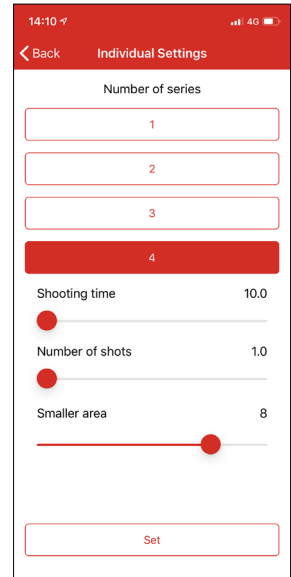
SETTINGS – allows:

- setting the brightness of the built-in LEDs and of the external lights

- shutting off the built-in lights

- Switch off After repeatedly turning the target on, you must unplug and then plug the power adapter back into the power grid.

- Target information – Shows the number of times the target has been turned on, the operation time and the hardware version.

CALIBRATE – This function is accessible only to the manufacturer or an authorized service company.
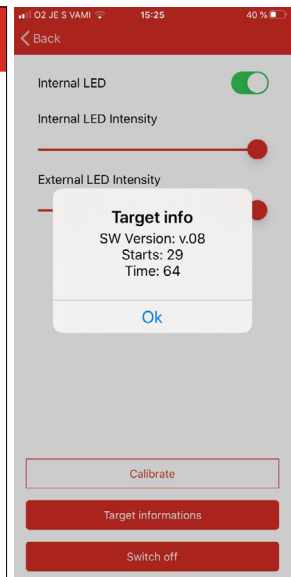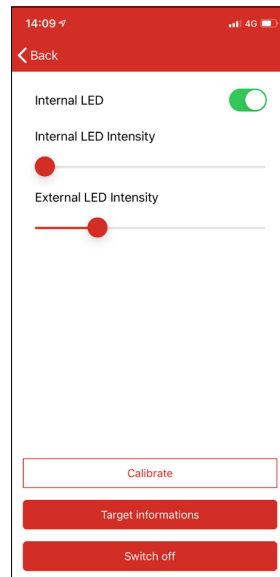
RESULTS – Here you can see your results. These are saved only in COMPETITION and INDIVIDUAL modes. Individual shots can be displayed separately.
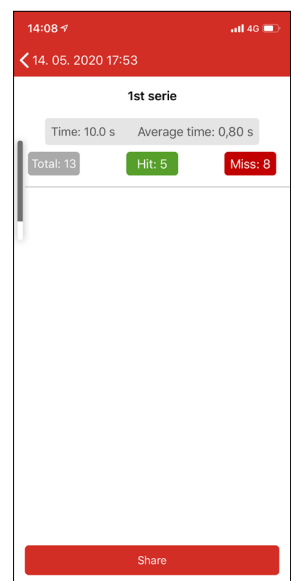
OPERATING THE TARGET APP FOR ANDROID

ESTABLISHING COMMUNICATION

After the target is connected to the power supply, communication should automatically be established between the target and your phone/tablet — the target number will display. Tap the target number and the application goes to the menu. The connection is established when the windows for TRAINING, COMPETITION and INDIVIDUAL mode are active. Otherwise, tap the CONNECTION window to repeat the process.

Automatic target shut-off: About 40 minutes after the last activity on the target, it automatically shuts off.
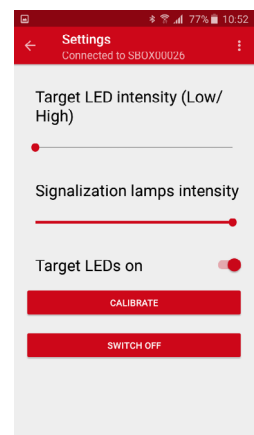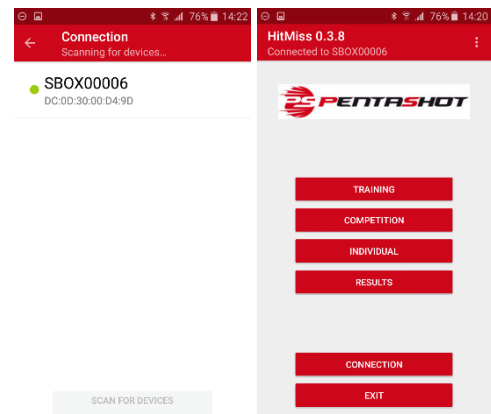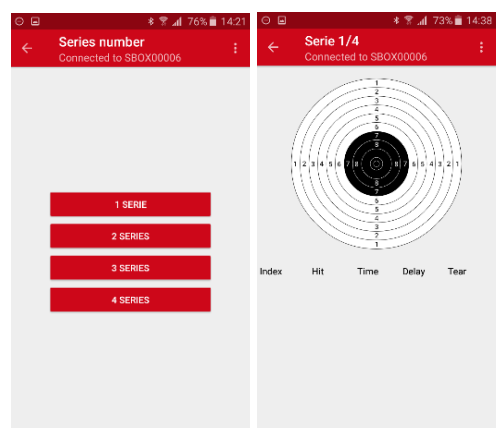
TRAINING – Tap in the MENU to link to this mode.

This mode allows shooting without limiting the time or number of shots. Three built-in signal LEDs show HIT or MISS. Green means HIT, and red means MISS. Results are not saved in this mode.
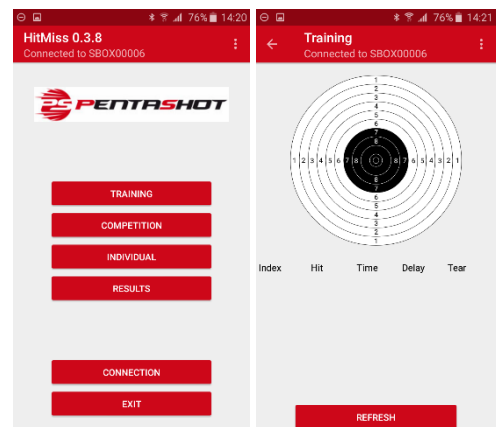
COMPETITION – Tap in the MENU to link to this mode.

Shooting time is limited to 50 seconds. The series ends with five HITs before time is up or shooting time expires. For identifying a HIT or MISS, LEDs of a specific colour go on. A HIT is always indicated by one green LED for each shot. A MISS is indicated by all remaining LEDs flashing. In this mode, the number of rounds can be set from 1 to 4, and the results are stored under RESULTS in the main menu.

INDIVIDUAL – Tap in the MENU to link to this mode.

Shooting time can be set between 10 and 60 seconds. You can also set the number of possible shots (MISS and HIT) from 1 to infinity. The number of rounds can also be set, from 1 to 4. And the HIT ZONE can be modified from circle 1 to circle 10. The results are stored under RESULTS in the main menu.
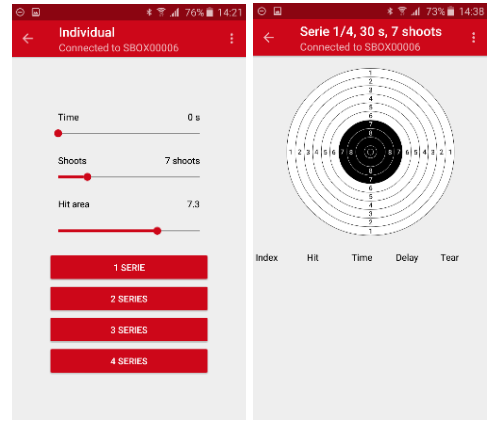

SETTINGS – allows:

- setting the brightness of the built-in signal LEDs and of the external signal lights
- shutting off the built-in lights
- Switch off After repeatedly turning the target on, you must unplug and then plug the power adapter back into the socket.
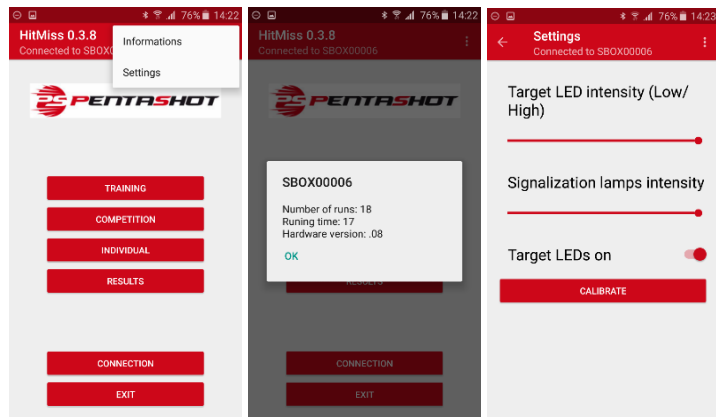
CALIBRATE – This function is accessible only to the manufacturer or an authorized service company.

RESULTS – Tap in MENU to show shooting results.

– Results are stored only by the time and date of the shot. The results are saved in COMPETITION and INDIVIDUAL modes. All shots in individual rounds can be shown. Individual shots can be displayed by tapping the line with the desired shot.
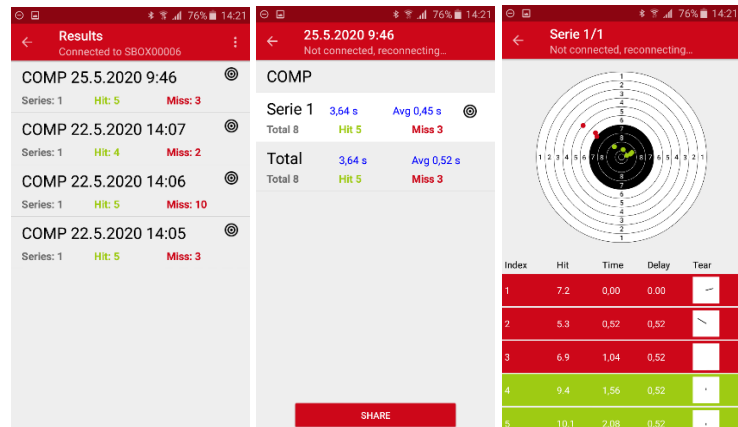
POWER SUPPLY

The target is powered from the electrical grid by a power source supplied with the target or from a power bank with the following specifications:

- maximum input voltage 5 V

- minimum output current from power bank 2.4 A (ideal with USB-C output, which is 3 A)

- the total capacity of the power bank should never be less than 10,000 mAh

- use a power bank only with the included cable

TECHNICAL PARAMETERS

Parameter	Value
Dimensions	19 cm width, 24.5 cm height and 10 cm depth
Size of hit zone	Æ 59.5 mm
Weight	950 grams (target only)
Shooting distance	5 to 10 metres
Shooting time	50 in competition mode. In individual mode, the shooting time can be adjusted. In training mode, time is not limited.
Power supply	DC 5.1V 3A (only with included adapter), power bank (according to specifications in manual)
Accepted laser signal	UIPM 15.6 ms laser signal
Solar resistance	80,000 LUX
External signal lights	NAVISTREET and PENTASHOT
Operating temperature	10°C to 50°C
Case protection class	IP52
Update function	App in Google Play or AppStore
Compatible operating systems	Android, iOS
Tripod fitting	Yes
Integrated hanging system	Yes
Integrated internal lights	Yes
Automatic target shut-off	Yes (40 minutes after the last shot)

STORAGE

It is very important that the target be stored under the right conditions, so that it will stay reliable and in good condition. Always do the following:

- Store the target in the original package (case) in a dry, dark location out of the reach of children.
- Do not place any heavy objects on the case, or objects that may leak fluids.
- Protect the target from weather, including frost and humidity. The optimal storage temperature is +5°C to 30°C. The air humidity at the storage location must not exceed 60%. Do not store the target in a damp environment where there is a high risk of corrosion.

www.pentashot.eu

Addresses:	PENTASHOT EU s.r.o.
	Zámecká 2315/9
	70200 Ostrava
E-mail:	jiri@pentashot.eu
	business@pentashot.eu
	info@pentashot.eu
Delivery address:	PENTASHOT EU s.r.o.
	Kosmova 1090/11
	70200 Ostrava
Telephone:	+420 605 252 433
	+420 773 002 110
	+420 607 056 112