

STEEL ALIVE USER MANUAL

Ref. Nr: 1.0

First issued: 18.02.2019

IMPORTANT

READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

This contains instructions for proper use, safety notes and maintenance, disposal and recycling notes for:

Steel Alive Target

&

Steel Alive Master

Manufacturer: Achtung Target Sp. z o. o.

Supplier: Steel Alive S. A.

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1. Technical terms

STEEL ALIVE DEVICES - Steel Alive Master, Steel Alive Target or accessories: LED, connectors.

STEEL ALIVE SYSTEM – Steel Alive devices attached to steel or composite targets managed by the Steel Alive app on a smartphone.

ASG – Airsoft Gun

2. General information

Steel Alive system is an electronic shooting training companion. Shooting with a wide variety of bullet types can be detected by the Steel Alive Target. Most of the smartphones equipped with Bluetooth can be used to operate the system. The Master is responsible for gathering the data and relaying the communication between the Steel Alive app and the targets. The user can set up the system of targets via Android or iOS app with both default and custom drills as well as games.

The product is designed for adults [18+ of age or more]. This user's manual is sufficient to fully use the Steel Alive system. The user DOESN'T need any additional professional skills or training to utilize the Steel Alive Master or Targets.

Product ID:	Steel Alive Master	Steel Alive Target
Power source	Batteries: (4) x "AA" size 1.6V = 6.4Volts	Batteries: (4) x "AA" size 1.6V = 6.4Volts
Power consumption	50 – 800 mA DC (depending on usage configuration)	50 – 2000 mA DC (depending on usage configuration)
Dimensions	230 x 120 x 55 [mm] / 9.05 x 4.70 x 2.15 [inches]	130 x 80 x 55 [mm] / 5.10 x 3.15 x 2.15 [inches]
Working ambient temperature	-18°C/0°F to 55°C/130°F	-18°C/0°F to 55°C/130°F
Weight (without batteries)	240 [g] / 8.5 oz	250 [g] / 8.8 oz

3. Contents of the package and devices description

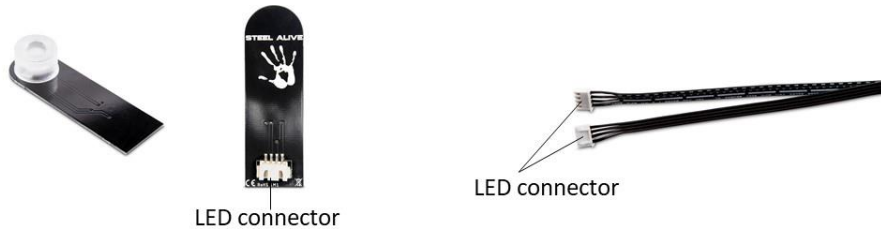
Quantities are stated on the last page of this instruction.



Steel Alive Master



Steel Alive Target



LED module and cable

4. Safety precautions

Read and understand all safety and operating instructions before Steel Alive Master and Steel Alive Target is operated.

The user should not attempt to service Steel Alive devices beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Not following rules stated in this manual may cause:

- Damage to the Steel Alive devices or its elements
- Body injury
- Fire
- Damage to the Steel Alive devices that render the warranty void
- Skin irritation
- Eyesight injury

Warning!

The Steel Alive system cannot be used by persons with photosensitive epilepsy or near those persons.

If you have any medical concerns regarding usage of the Steel Alive system you should contact your doctor!

Steel Alive devices and its elements are NOT a toy and are NOT dedicated to children. Steel Alive devices contain SMALL ELEMENTS that may be swallowed by children – it may lead to choking and/or suffocation! Steel Alive devices must be kept away from children!

You are responsible for arranging the targets you will be shooting at on your own. The Steel Alive product should be attached to the back of your targets and should be fully protected. While shooting at steel targets, the Steel Alive target should be fully covered by the steel plate. You should never shoot at the electronic device.

During usage the LED module and/or cable may be damaged in the way that may be hazardous for skin contact (e.g. sharp edges, splinters). It is recommended to wear hand protection while changing the damaged LED module and/or cable.

If the steel plates are set up in the way that bullet fragments hit the Target unit, it may cause the surface of the Target unit to be hazardous for skin contact. You should never set up steel plates in a way that bullet fragments may damage the Target unit, it may lead to a malfunction of the device! If you fail to do so, always wear hand protection while touching the Target units. For more details regarding targets set up see Target Arrangement part of this manual.

Using Steel Alive System can be very distracting and may encourage the user to forget basic safety instincts. It is crucial to ALWAYS follow the rules of gun handling and consult the training plan with an experienced instructor.

To avoid eyesight damage, DON'T stare directly at the LEDs from a distance smaller than 10 meters. Limit the time you stare at the LEDs, especially while configuring the Steel Alive system.

To avoid damage to the skin, avoid touching the LED back surface, as it may become HOT while using the Steel Alive Target and shortly after turning it OFF.

ALWAYS wear hearing protection and wrap-around shatter resistant eye protection.

ALWAYS follow safety precautions for safe gun handling.

ALWAYS treat every weapon as if it were loaded.

ALWAYS keep the weapon on safe mode, until you intend to fire.

ALWAYS shoot perpendicular to the steel plate with maximum deviation from perpendicularity being 30 degrees.

ALWAYS keep your finger straight and off the trigger, until you are ready to fire.

ALWAYS inspect the Steel Alive target for damage, functionality, stability, etc., before using it.

ALWAYS stand in appropriate distance (stated by your steel plate manufacturer) from the target when using all types of guns.

ALWAYS set your steel plates facing the ground.

ALWAYS analyze the shooting area before engaging with a gun, especially regarding the area around and behind the targets.

ALWAYS use genuine Steel Alive Target and Master units.

NEVER point the weapon at anything you do not intend to shoot

NEVER shoot at any of the electronic devices directly.

NEVER attach the Steel Alive Master unit to the steel or composite plate.

NEVER use Steel Alive Target or Master units, that are cratered, pitted or damaged in any way.

Limits of Steel Alive system environment

DON'T use the Steel Alive system for shooting with firearms outside a dedicated shooting range. ALWAYS consult the local authorities regarding the permission to use firearms.

DON'T put Steel Alive devices in direct sunlight, in an unventilated area or behind glass (e.g. a car's interior) for a long time. The appliance should be away from heat sources such as radiators, heat registers, stoves, or other appliances that produce excess heat or/and naked flames.

If Steel Alive system is left unattended and unused for long periods of time, replace the batteries. Damaged batteries may leak and damage your skin or personal belongings. For safe disposal of batteries see the appropriate section below.

In an event of liquid getting inside the device, immediately TURN OFF the device and remove the batteries. DON'T dry the device with a hair dryer, microwave or electric oven. Wait until the device dries naturally.

You must always use Steel Alive System according to Instruction.

DON'T open the Steel Alive devices for any other reason than battery replacement (for replacement instruction see the Battery replacement part of this instruction).

DON'T place the Steel Alive devices near strong electromagnetic field. It may cause damage and/or malfunction of the Steel Alive devices.

Indications that products are no longer of use

If any of the products (Steel Alive Master, Steel Alive Target and/or accessories) fell down from high altitude, were perforated or submerged in water, they may be no longer of use.

Steel Alive devices don't have any elements that are replaceable, apart from its accessories and batteries. Do not attempt to open Steel Alive devices!

When connecting Steel Alive LED module, you must be extra cautions and pay extra attention. If any part of the cable, connector and/or LED module is/are damaged, bended, crushed do not attempt to connect it! Any repairs can be done only by skilled Steel Alive personnel!

If the antenna connector in the Master unit is damaged, bended, crushed and/or do not attempt to connect the antenna and do not attempt to turn on Master unit.

Transportation and storage

When you move your device between environments with very different temperature and/or humidity ranges, condensation may form on or within the device. To avoid damaging the device, allow sufficient time for the moisture to evaporate before using the device.

NOTICE: When taking the device from low-temperature conditions into a warmer environment or from high-temperature conditions into a cooler environment, allow the device to acclimate to ambient temperature before turning on power.

5. First installation

Unpacking

The batteries provided with the purchased product are non-rechargeable alkaline LR6 type. Their capacity may differ due to duration of transportation and/or storage. Don't short circuit the batteries. Never leave batteries in the reach of the children.

Always keep small children away from the packaging! After unpacking don't let the small children to have access to packaging - it may cause choking and lead to suffocation!

For a checklist of items, see section on the last page.

How to begin:

CAUTION! NEVER TURN ON MASTER DEVICE WITHOUT ANTENNA CONNECTED! It may cause damage and malfunction to the device or destroy the device!

To manage all your Steel Alive Targets, you need to connect to the Steel Alive Master unit via smartphone or tablet. The device must have Bluetooth Low Energy technology.

You can download the Steel Alive app from Apple Store or Google Play store according to your device's type. For more information regarding the application download see www.steelalive.io

In the application you can open video manuals, however they DON'T replace this paper instruction and are only an auxiliary material.

Proceed according to these steps:

1. Insert the batteries to the Master and Target devices:

- Take off the battery cover by pressing it towards the top of the device and then pulling it up.
- Insert the AA batteries into the battery compartment. Always put the batteries according to plus and minus symbols. Remember to put the ribbon under the batteries – it will make the removal process easy.

Link to a 'Batteries installation' video is here: https://youtu.be/BF_h3MQeRtc

2. Mount the Target units on the steel or composite plates:

- Make sure the surface of the steel or composite plate is CLEAN and DRY. The ambient temperature (as well as the surface temperature) should be above 10 degrees Celsius. If these requirements are not met, the Target unit may fall on the ground during shooting and DAMAGE THE TARGET UNIT!
- Remove the white safety film from the Target unit's hook and loop.
- Place the Target unit in the CENTER of the steel or composite plate. The power button must always face up to assure water resistance!
- Press firmly the Target unit towards the steel or composite plate.
- Connect the cable to the LED module and Target unit.
- Remove the white safety film from the LED module's hook and loop.
- Place the LED module on the back of the steel or composite plate, so that most of the LED module is hidden.

Your targets should not be too close to each other to AVOID ricochets and bullet fragments. Do not align them in a parallel line. More information about target arrangement can be found in Target Arrangement part of this manual.

Link to a 'Mounting the targets' video is here: <https://youtu.be/oWZKTDJFhg4>

3. Bind all of your Targets with the Master unit. You have to do it only once. Binding instruction is placed on the back of Master unit as well as in the Binding Procedure part of this instruction.

Link to a 'Binding the targets' video is here: <https://youtu.be/EWcU3krjtU8>

(If you wish to connect your Target unit to the other Master unit, you need to go through the binding procedure)

4. You must turn on Bluetooth in your mobile device settings first. Then open the Steel Alive mobile app and go to Target settings tab in the app menu and connect to your Master unit. Now, if you wish so, you can change your Master unit name by tapping the button "Change Master Name".

5. Swipe left to set your Targets' parameters. Tap on "Refresh Target List" and then use the Target Configuration Wizard to setup all your devices at once. By tapping on the individual target on the list you can blink the LED connected to the target in order to identify it. If you wish to setup one target at a time you need to press and hold the individual target on the list (it does not change the configuration of other devices).

Link to a 'How to configure your Targets' video is here: <https://youtu.be/ZsRVVwAzCnc>

Target arrangement

Steel targets (i.e. torsos, gongs) for shooting with real firearms

Taking ricochet danger into account is necessary, when shooting at steel targets. The targets should be always located according to your steel plate manufacturer.

Composite targets for ASG usage ONLY

The ASG bullets may distort and shred the material of the target, but they can also bounce back from the target. Therefore, the targets should be located at least 5 meters/ 17 feet from the shooter's ASG barrel. Always wear eye protection when using ASG (airsoft guns).

Binding procedure

1. Make sure antenna is connected to the MASTER
2. Turn ON the MASTER while pushing BIND button on MASTER
3. Release BIND button after one second.
4. Hold the MASTER close (less than 30 cm / 1 feet) to the TARGET you want to bind
5. Turn ON the TARGET you want to bind
6. Wait until LED stops flashing in various colors
7. The TARGET is bound when LED flashes RED
8. The TARGET flashes GREEN while in standby mode.
9. Repeat steps 4 to 7 with every TARGET
10. After all TARGETS are bound, restart the MASTER

6. Maintenance

1. **Check, if the targets are mounted correctly.** If the hook and loop straps were attached to a clean and dry surface, they should secure the target easily even in case of vibrations due to intense shooting or humidity from raining or splashes of water.
2. **Check, if the batteries are charged properly.** The nominal voltage of one AA battery should be 1.6 Volts. You can insert new batteries.
3. **Check, if the device is NOT damaged.** The LED connection cables should NOT be cut or shredded.

Accessories replacement

Steel Alive LED and cables

Disconnect the 4pin connector from the Steel Alive Target and detach the LED. Scrap the used hook and loop from the back of your target plate. Make sure you stick the new hook and loop to a clean and dry surface. Connect it to the Steel Alive Target by pushing its two edges with two fingers if possible. Make sure that the cables are protected from the bullets by your target plate or the target stand leg.

The LED module and cables are not a subject of the Warranty. They are regarded as consumables. For buying additional LEDs and cables contact your Steel Alive distributor.

Battery replacement

Master and Target units are identical regarding the battery replacement process. ALWAYS make sure nobody is currently using that specific unit, while you replace the batteries inside it.

You can also use the rechargeable batteries that voltage is no higher than 1.6 Volts. Always use your new batteries according to rules stated by its manufacturer.

1. Steel Alive rectangular cap is first placed in the closed “DOWN” position. Move it towards the top button sidewall using your hand.
2. When it reaches the “UP” position and stops moving further, pull it out of the box. You do not need to apply any force, if you try to do it in the correct “UP” position.
3. Pop all 4 batteries out of the container using a flat screwdriver or a knife.
4. Put all 4 new batteries into the container.
5. Place the Steel Alive rectangular cap in the “UP” position.
6. Pressing it into the box with a slight force, move the cap down, until it reaches the closed “DOWN” position and stops moving.

DON'T expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time.

DON'T dismantle, open or shred secondary cells or batteries.

In the event of a cell leaking, DON'T allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.

Secondary cells and batteries need to be charged before use. Always refer to the manufacturer's instructions or equipment manual for proper charging instructions. After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance. For proper disposal see section below.

Updating your devices

Information on how to upgrade your devices can be read in the Steel Alive app on your smartphone. In the interest of continuous product improvement, specifications and/or minimum system requirements are subject to change without prior notice.

7. FAQ/Troubleshooting

For FAQ see: www.steelalive.io/support.html

8. Registered trademarks

The Steel Alive® word mark and logos are registered trademarks owned by Steel Alive S.A.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Steel Alive S.A. is under licence.

9. Compliance

Steel Alive Master:

Contains Transmitter Module FCC ID: 2AB6YHM-1011V1

Contains Transmitter Module: FCC ID: 2AC7Z-ESPWROOM32U

Steel Alive Target:

Contains Transmitter Module:FCC ID: 2AC7Z-ESPWROOM32D

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

10. Disposal

Disposal of waste batteries and electrical and electronic equipment



This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

CONTENTS OF THE PACKAGE

Mind the ticked box - read the appropriate table!

	Item	Quantity
	Steel Alive Master	1
	Steel Alive Target	5
	LED module	10
	Cable	7

	Item	Quantity
	Steel Alive Master	1
	Steel Alive Target	3
	LED module	6
	Cable	5

	Item	Quantity
	Steel Alive Master	1

	Item	Quantity
	Steel Alive Target	1