

2021

**ROMTES**  
SHORT CIRCUIT TARGETS

Romtes Technologies Ltd

Customer service



[SCT PRO USER MANUAL]

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This document may contain errors and or Mistakes and or Omissions, ROMTES relief itself any responsibility or warranty to the level allowed by law or by the selling contract, for any damage or lost Caused to a person or organization from lack of updated info or Inaccuracies in the operating instructions in this document or defected installation of the product, ROMTES is updating from time to time this document, therefore if you find an error please note it to ROMTES.

## 1. **General Description**

Thank you for choosing Romtes Technologies Ltd SCT PRO Target Systems, this system was designed after many years of experience supplying target systems to Special Forces Worldwide, now this state-of-the-art Target System is in your hands and will deliver a unique and different training experience.

The SCT Pro is a Universal target stand enables training with multiple Short Circuit Target (SCT®) made by Romtes for various types of training requirements. It is a wireless system that by using the Unique SCT serves the user the feedback from the target about the hits on the target by Multiple Scoring Zone depending on the type of target and version of the system.

### **Important Notice:**

Shooting live fire on targets requires proper training by certified instructors, any person trained on the SCT Pro should use the proper safety measures needed including but not limited to: Eye Protection, Ear Protection, Safety Distances needed, safety distances from Metal Parts, proper angles of shooting, Ricochet Protection Rubber Etc.

Please consult a certified instructor and /or a Range Safety Officer before the use of any weapon.

## 2. Content of the Package

ATSR-SCTPRO			
No	Cat. Number	Short Description	Qty (unit)
1	ATSR-SCTPRO-ARM8Z	target holder including Rechargeable Battery and antenna	1
2	ATSR-SCTPRO- DSP8Z	Target display for 8 scoring Zone including Rechargeable Battery and antenna	1
3	ATSR-SCTPRO- FS1	Quad pod Folding Stand with a Hex key	1
4	ATSR-SCTPRO- BP1	6mm AR500 Target holder Ballistic Protection plate BASIC (for 9mm,5.56,7.62 rounds, not armor piercing)	1
5	ATRS-SCTPRO-FS1RB	4mm Ricochet protection Rubber for FS1 folding stand	Not included. Can be purchased separately stand
6	ATSR-SCTPRO-UBC	SCT PRO Micro universal USB battery charger including USB-Micro USB cable (BLACK or White)	2



### 3. Technical and specification

#### 3.1. TARGET STAND:

Number of Scoring Zones	Up to 8 scoring zones
Hit Indications	Short Circuit Target up to 8 Zones (SCT) ,Worldwide Patented and patent pending
Accuracy of Indication	98% report Accuracy, No sensor adjustment for any type of projectile or distance
Ports	Micro USB Charging, pop up port firmware updates expansions
Voltage	3.7V, rechargeable
Operating temperatures	-20°C ÷ 60 °C
Operating Wireless Range from display	Up to 1500 Meter/1600 Yard Line of sight
Operating time with regular battery pack	140 Hours
Color	Black
WEGIHT:	
STAND	5.3 Kg /11.7lb
SCT GRIP(ARM8)	0.7Kg /1.5lb
5.56mm,9mm,7.62mm Protection plate	3.5Kg/7.7lb
Anti-ricochet protection	0.5Kg/1.1lb
Total	10Kg /22lb
Height when stand is open	810mm/31.8 inch
Length when stand is folded	775mm/30. inch
Time from folded to open	Up to 2 Min
Material	Plastic and Alum

### 3.2. Display:

Type	<b>W-FAST</b>
Number of Scoring Zones	<b>Up to 8 scoring zones</b>
Hit Indications	<b>Short Circuit Target on target up to 8 Zones (SCT) ,Worldwide Patented</b>
Accuracy of Indication	<b>98% report Accuracy, No sensor adjustment for any type of projectile or distance</b>
Ports	<b>Micro USB Charging&amp; firmware updates expansions , SD Card memory</b>
Voltage	<b>3.7V, rechargeable</b>
Operating temperatures	<b>-25°C ÷ 60 °C</b>
Indications Operating Modes	<b>8 scoring zones counting +total Hit split times Timed countdown Sound for every Hit Display Battery status Target Battery Status Wireless signal status</b>
Digital Screens Operating Wireless Range	<b>Up to 1500 Meter/1600 Yard Line of sight</b>
Weight including Battery	<b>1Kg including battery not including armor</b>
Dimensions(LXWXH)	<b>29.7CmX23CmX4.5Cm</b>
Display size	<b>19.5CmX14Cm</b>
Display Type	<b>LCD visible at direct sun</b>
Operating time with regular battery pack	<b>24 Hours</b>
Di	
Color	<b>Black</b>
Material	<b>Plastic and Alum</b>

### 3.3. Applicable standards:

- 3.3.1. FCC (USA)
- 3.3.2. IC (Canada)
- 3.3.3. CE (EU)

## 4. Target Stand Operating

The target stand is a lightweight aluminum and steel made with four leg folding stand (Quad) it is built to minimize the risk ricochets and enables deployment in almost any terrain and surface, the stand has four rubber ends for maximum grip and large Radius when in open position to withstand wind and mechanical efforts.

The stand also has a telescopic main stern enable positioning the target in a convenient and reasonable height for maximizing experience.

In the lower folder base, you can find two M10 bolts, the front (direction of shooting) is for holding the lower part of the rubber Curtain and the rear is for locking and unlocking the main stern in one of the two position: fully open or fullyclosed.





The Base bracket at the upper part of the stern holds the Patented target Clamp (ARM8Z), the Protection Plate and secure the Ricochet protection rubber as shown below.

\*Ricochet protection (ATRS-SCTPRO-FS1RB) not included but can be purchased.



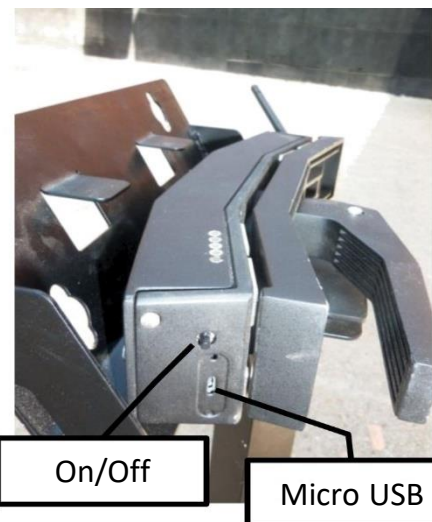
## Target Clamp Operating and Interface

- 4.1. The Unique Patented Target Clamp is a 100% reliable connection, quick Release and Replace Clamp that holds the SCT in its place and creates all necessary connections to the SCT with no need of wires or punching the target or any other non-reliable connections.
- 4.2. The grip has a designated chamber for the 3.7 Volt batteries, protecting the battery from the elements. The battery can easily replace by unscrewing the two bolts holding the cover and releasing the battery from its connection, warning a defected battery or a battery with wires not connected to its connector are forbidden for use.
- 4.3. The grip can be disconnected from the base bracket by unscrewing the four (4) bolts at the lower part of the grip.

### 4.4. Grip Interface:

4.4.1. The target Grip have the following interfaces

- 4.4.1.1. On/Off button
- 4.4.1.2. Micro USB connector for charging and data
- 4.4.1.3. 3 pin Aux port
- 4.4.1.4. Five Led indicators:
  - 4.4.1.4.1. Battery and charging status
  - 4.4.1.4.2. On/Hit indication
  - 4.4.1.4.3. 3 led for signal Strength indication
- 4.4.1.5. Antenna



AUX port

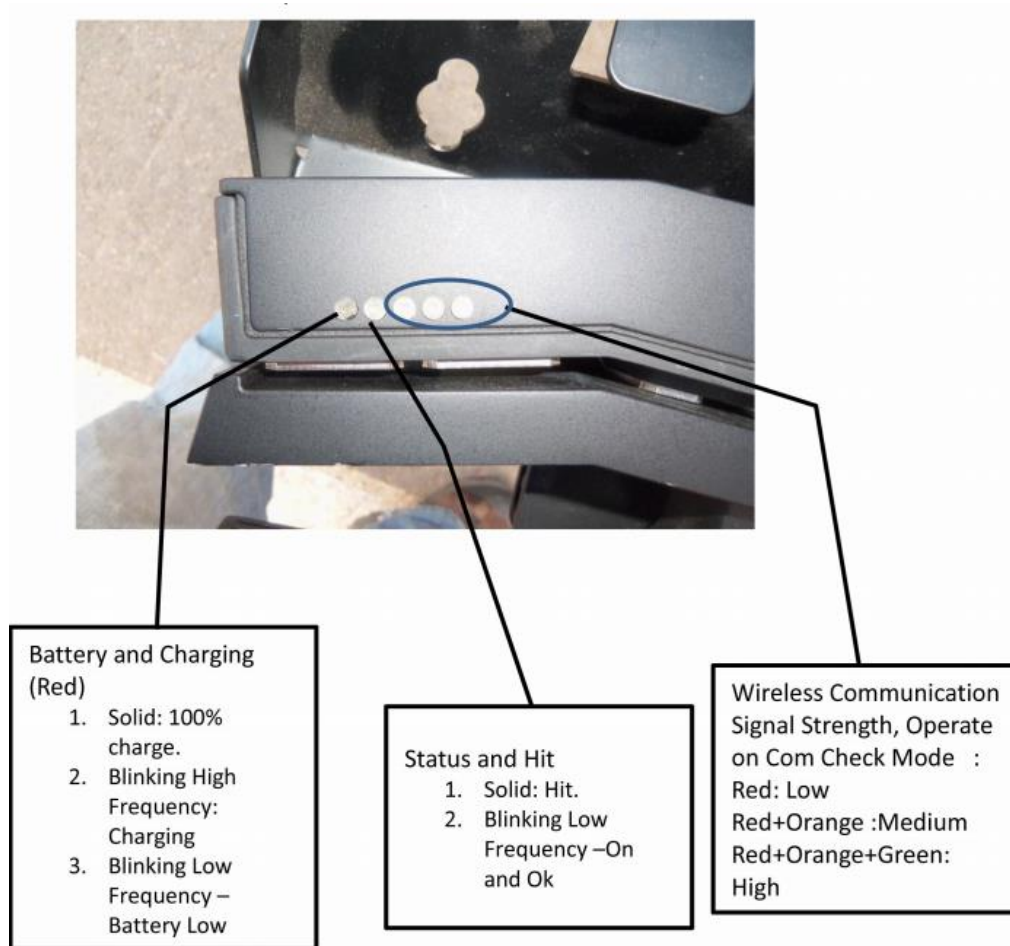
Antenna

Status LED

Handle

## 5.5. Led Bar Indicators:

5.5.1. The Led indicators allowing the user to get essential info about the status of the Grip as described below:



5.6. To operate the target, press the on and off button once, all the Indicating Led lights will turn on for the initial test and a low volume buzz signal will sound. A blue led will blink, indicating that the system is working, if a red led is blinking this indicates that the Grip battery is low.

## 5.7. Communication signal check and target deployments down range:

5.7.1. By entering to the Com check mode at the display (see Chapter 6) a 3- level led bar will turned on indicating the level of the signal sent by the display and received by the Grip. This is especially important to be used when deploying the target stand down the range. Always deploy the target where a com signal is available even in min strength.



Wireless Communication Signal Strength, Operate on Com Check Mode :

Red: Low

Red + Orange: Medium

Red + Orange + Green: High

## 5.8. Charging the Grip:

5.8.1. Connect the charger to the power outlet

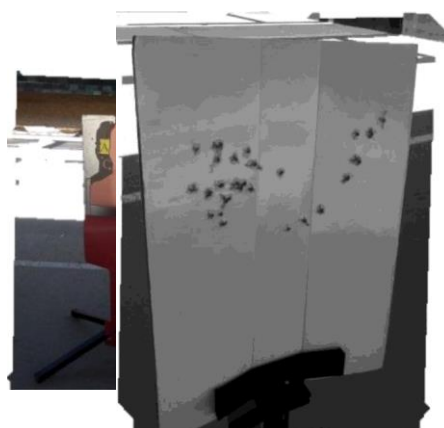
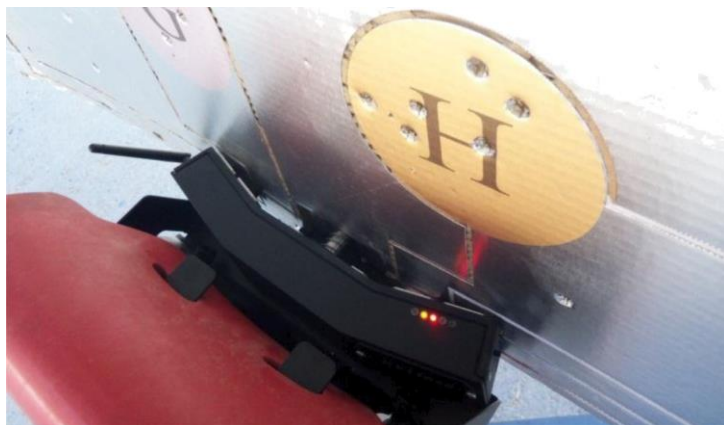
5.8.2. Connect the Micro USB charging and data cable to the Grip in one side and to the charger in the other side

5.8.3. A red Led will blink on the grip indication that charging is in process.

5.8.4. When the charging is done the Red led will turn on.

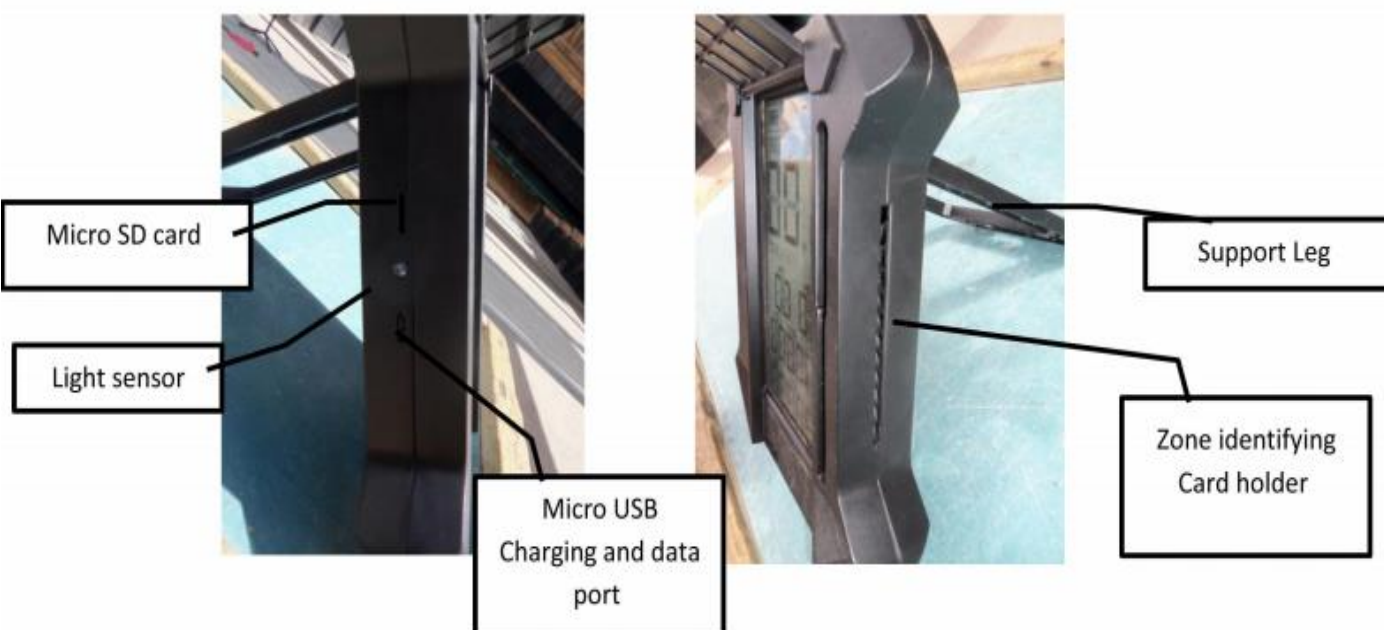
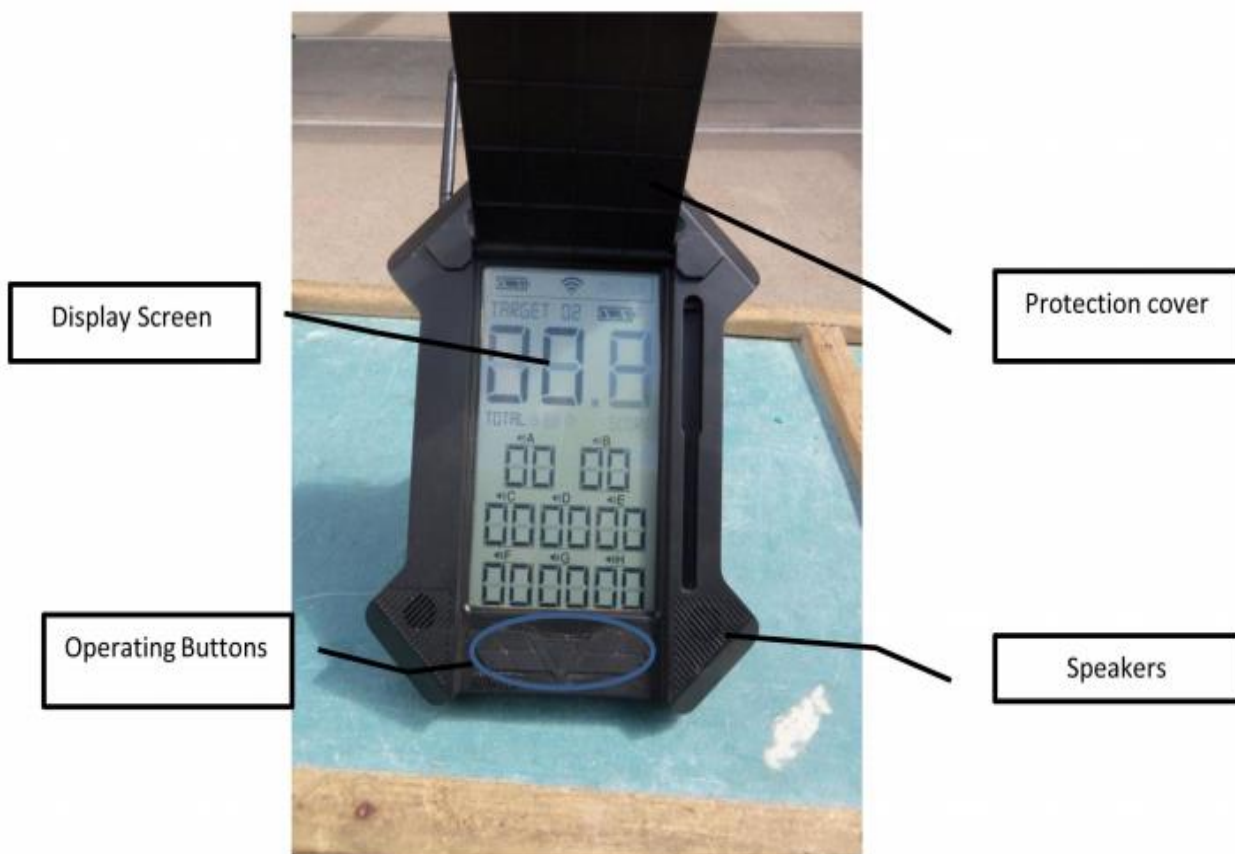
## 5.9. Placing an SCT target:

5.9.1. For placing the SCT to the Grip follow the pictures below **Note:** Make sure that the target liners enter the Small Windows in the SCT (short circuit target cardboard target)



**6. Display and control operating and interface**

6.1. The DSP8Z display is an operating platform indicating hits and other information while it enables controlling the system in several modes as described below. The display uses a technology that enables the user to see the results very clearly even in direct sunlight additionally it also enables its operation in low light or dark environments using its three levels of backlight.



## 6.2. Major elements on the display:

6.2.1. Screen

6.2.2. Protection Covers

6.2.3. Holding handle

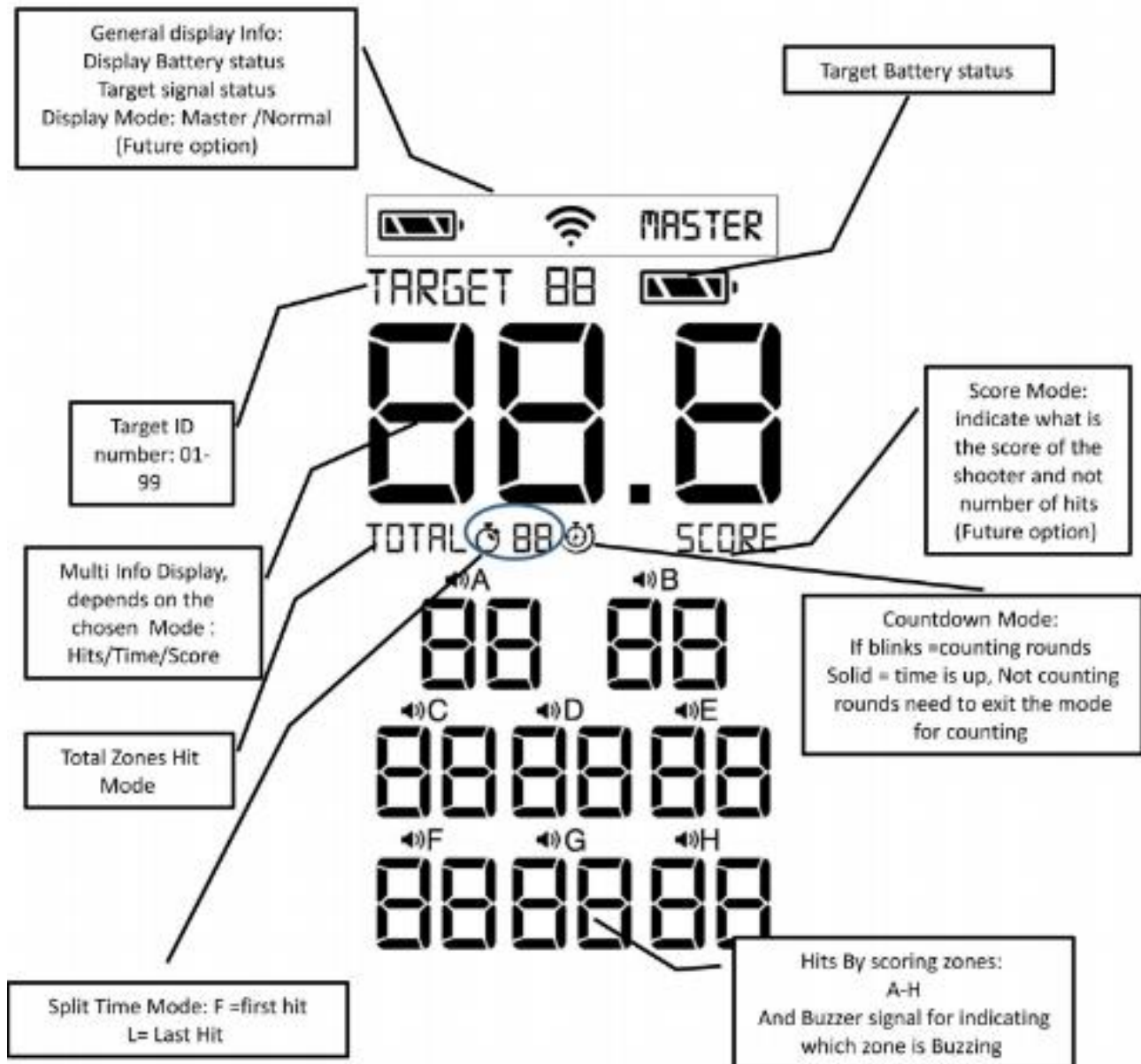
6.2.4. Antenna

6.2.5. Speakers

6.2.6. Charging and data interface

6.2.7. Operating Buttons

### 6.3. Screen Layout:





## 6.4. Modes of Operating:

### 6.4.1. Hit counting:

6.4.1.1. The system is always counting the hits on the target, unless it is on Stop Mode after countdown mode is finished to release this mode in that case see Countdown mode.

6.4.1.2. The system counts the hits by up to eight (8) scoring zones

#### 6.4.1.3. Buzzer:

6.4.1.3.1. A hit buzzer gives a sound indication for every hit, enabling audible indication for the hits.

6.4.1.3.2. The buzzer can be related to a specific scoring zone or multiple scoring zones

6.4.1.3.3. The buzzer can be turned on and off using the Buzz on/off button

#### 6.4.1.4. ZONE mode:

6.4.1.4.1. When you press and hold the ZONE button.

6.4.1.4.2. For the first time - the area A speaker will start flashing.

6.4.1.4.3. Each time - the speaker in the last area where you finished will start flashing.

6.4.1.4.4. Pressing + ALT - will leave the buzz in the area and move to the next area.

6.4.1.4.5. By pressing -ALT- the buzz is removed from the area and moves on to the next area.

6.4.1.4.6. Exit ZONE mode, by pressing the ZONE button again or after 10 seconds in which not one of the ALT buttons is pressed

#### 6.4.1.5. Reset Hits:

6.4.1.5.1. The reset enables the user to "Clear " his target from Hits and shoot multiple times at the target

6.4.1.5.2. To reset the Hits on specific target – press and release the Reset button, a sound indication may apply as well

6.4.1.5.3. To reset all targets – Hold down the Reset button for 5 secs

### 6.4.2. Score Zone:

6.4.2.1. A long press on the BUZZ button enters Score Mode.

#### 6.4.2.1.1. *First Stage: Settings Mode -*

The word SCORE will start flashing. The last hit area where we were at the end of the previous settings will start

Flash (Default Area A) If there were previous scoring settings, they will be displayed.

You can set the score of the area by pressing + ALT-, ALT.

By briefly pressing BUZZ we will move on to the next area that will start flashing.

#### 6.4.2.1.2. *Second Stage: On -*

The word SCORE will remain constant, the result of the hits will be calculated according to the hits made with the scores defined in the previous mode.

(Areas where the score remains 0 will not counted in the results)

#### 6.4.2.2. *Third stage: Off mode -*

The word SCORE will disappear, and we will enter normal hit mode.

The scoring settings will be saved in case they are needed again.

Reset scoring settings by pressing ALT and the BUZZ button.

#### 6.4.3. Time count:

6.4.3.1. This mode enables the user to get split times for the hits

6.4.3.2. This mode is operated by pressing a few secs on the Time button. The multi-info display changes and a 7 sec countdown is started, and a buzzer indication is sounded (only if buzzer is on) when the countdown is finished a long Buzz will be sounded.

6.4.3.3. The system will indicate the hits split times from the long buzz

6.4.3.4. To see the split times, press the Time button once for receiving the First hit time (Indicated by F letter on the screen) press again for the Last Hit time (Indicated by the L letter on the screen)

6.4.3.5. Every additional Hit will reset the Last Hit time and will indicate anew Last hit time

6.4.3.6. To reset the first round and shoot again repeat the whole process again

#### 6.4.4. Countdown:

6.4.3.1. The countdown mode enables the user to limit the time of shooting the target, after the time is done the hits are not counted.

6.4.3.2. This mode is operated by pressing a few secs on the Countdown button. The multi-info display changes and a 7 sec countdown is started, and a buzzer indication is sounded (only if buzzer is on) when the countdown is finished a long Buzz will be sounded.

6.4.3.3. Then another X sec countdown will be shown depends on how much seconds we programmed it.

6.4.3.4. We can shoot during the seconds countdown, when it stops the screen will show our hits and the countdown indication is on.

6.4.3.5. When the countdown indication is on the hits are not counted anymore.

6.4.3.6. To exit this mode, press the countdown button once

##### 6.4.3.7. Programming the Countdown Clock:

6.4.3.7.1. By pressing ALT + and countdown we increase the countdown Clock By 0.5 Sec

6.4.3.7.2. By pressing ALT - and countdown we decrease the countdown Clock By 0.5 Sec

6.4.3.7.3. The Min countdown clock is 2 sec

6.4.3.7.4. The Max countdown Clock is 99.9 sec

#### 6.4.4. Comms Check:

6.4.4.1. The comms check mode enables you to check the status of the communication with the grip and the signal strength as well.

6.4.4.2. This mode is used when locating/deploying the target at the range

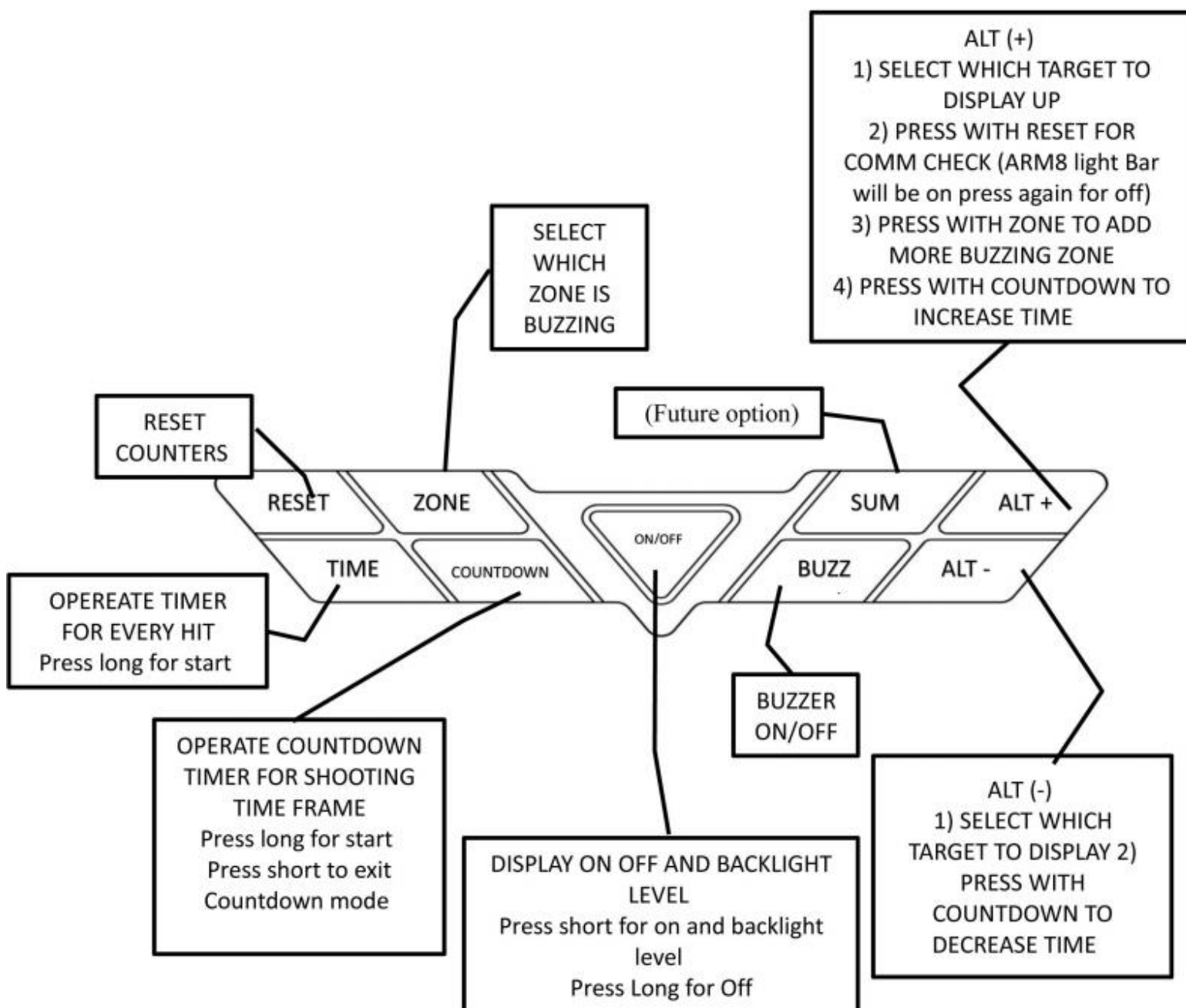
6.4.4.3. Press the Alt + button and Reset button and make sure the comms indicating LED's are operating on the Grip

6.4.4.4. Press the Alt + again to turn it off.

6.4.4.5. The Receiving signal from the Grip and its strength is indicated on the screen.

## 6.5. Buttons:

6.5.1. See below the button's layout and explanation about how to operate them



## 6.6. Charging and Data:

6.6.1. The display can be charged via the Micro USB Port on its left side.

6.6.2. Connect the charger to the power outlet

6.6.3. Connect the Micro USB charging and data cable to the Display in one side and to the charger in the other side

6.6.4. A buzzer will indicate, and the Battery icon will blink

6.6.5. When the battery icon will be full and stop blinking the Battery is full

6.6.6. Battery is stored at the back of the display, to replace the battery open the hatch by unscrew the screw of the cover.

## 6.7. Target Zone Identifying:

6.7.1. To remind the user, the layout of the scoring zones cards can be supplied separately for the targets, this card can be attached to the designated holder at the side. For more information visit our website.



## 7. Target Terminal Software

7.1. The terminal software enables users to connect or disconnect a grip to a display, or display to multiple grips, change frequencies, update firmware and troubleshoot, charging status

7.2. The software can be downloaded on our website [www.romtes.com](http://www.romtes.com). To receive updates by email please register your product on our website ([www.romtes.com/product-registration](http://www.romtes.com/product-registration)). You will need the serial number of your system that appears at the back of your display unit.

7.3. A link will be sent back to you with instructions how to operate in install the software.

## 8. Troubleshooting

8.1. Here are some common trouble shooting:

Number	Product	Problem	Solution 1	Solution 2
1.	Grip	No led is blinking on the Grip	Turn on the Grip, Press the on button	Not working? Recharge the battery
2.	Grip	When the grip is on Charging, Red led is solid but When pressing on the Grip is not operated	Check the battery connector	Use the Target Terminal for trouble shooting, or call support
3.	Grip	The blue Led is solid	Disconnect the SCT and Replace	Not working? reset using Target Terminal or call support
4.	Display	Press the On button and hear the Buzzer but cannot see the target address and battery and total hits	Turn off the display and on again	Not working? reset using Target Terminal or call support
5.	Display	THE Grip is on and I am shooting on the target but no hit count	Check if the countdown icon is on, if yes turn it on and continue with hits	Check Target panel if is ok if not replace the target panel SCT
6.	Display	Turned Grip on and I am shooting on the target but no hit count	Check Comms with the Grip	Check battery status at the Grip and if grip is still on
7.	Display	In time mode or countdown mode the first countdown is happening but when it comes to 1 it stops and no buzzer and nothing happens	Check Comms with the Grip	Not working? reset using Target Terminal or call support

8.	Display	The Display is on and the Grip is on and the display status is shown but can't see the target address and score	Check Comms with Target	Use target terminal to pair the target and the display
9.	Display	I am pressing the Reset button, but nothing happens	Check Comms with grip and check that the grip is on	

For more support send email to [Service@romtes.com](mailto:Service@romtes.com)

## 9. Maintenance

- 9.1. Here is the recommended requirement of the maintenance actions needed:
  - 9.1.1. Clean the grip after every use
  - 9.1.2. Check antenna after and before every use
  - 9.1.3. Re tight the Grip Bolts the connect to the Grip Holder every 3-6 month
  - 9.1.4. Replace battery every 24 Month
  - 9.1.5. Update firmware if available 3-6 month

## 10. Safety

- 10.1. Shooting live fire on targets requires proper training by certified instructors, any person trained on the SCT Pro should use the proper safety measures needed including but not limited to: Eye Protection, Ear Protection, Hands Protection, Leg and Foot Protection, Safety distance needed, Safety distances from Metal Parts, proper angles of shooting, Ricochet protection Rubber (sold separately) Etc.
- 10.2. Please consult a certified instructor and /or a Range safety officer (RSO) before uses.
- 10.3. The system has metal parts and relatively heavy items, please use closeshoes or boots when using it is to prevent injuries.
- 10.4. Some sharp and metal parts can be found on the systems, such as Ricochet on the rubber and other places, Hits on the Aluminum Parts and more, be cautious when using it.
- 10.5. Any user under the age of 18 should be escorted and supported by a grownup over the age of 18 at least.
- 10.6. All users should consult an RSO as described in 9.2

## 11. Warranty

- 11.1. The system warranty is 12 months from the date of purchase of the system
- 11.2. A system must be registered on the Romtes website - [www.romtes.com](http://www.romtes.com) within 14 days from purchase
- 11.3. Fill in a contact form entering your name, Subject: warranty register, you email, Date of purchase, location of purchase and kit serial number (sticker on the Box)
- 11.4. A link will be sent back to you with instructions how to operate and install the software and a warranty certificate as well
- 11.5. Additional warranty programs are available
- 11.6. The warranty terms and conditions can be found at the SCT PRO section AT [www.romtes.com](http://www.romtes.com).
- 11.7. This product is made in Israel and it is subject to the Israeli laws.
- 11.8. The shooting Range is a dangerous environment ROMTES is not Liable for any kind of injury at the range, at the way to the range and from the range and from using the system in any UNlawful, INappropriate or UNSafe way as described in this manual.

## 12. Contact Info

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Your Local Distributor:

