

#seriousfun

# User Guide SQ Air 10 Interactive target



sportquantum.com



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# Foreword





The SQ Air 10 Interactive Target is designed for air pistol and air rifles shooting sports with a maximum energy of 7.5 Joules (official limit for ISSF and olympic shooting disciplines). The target measure the impact position on a transparent polycarbonate impact plate, behind which a screen displays visuals controlled by the SQ Touch tablet. The system provides real-time scoring accurate to the tenth of a point. In the default configuration, the SQ Air 10 interactive target and SQ Touch tablet are connected via an Ethernet cable, but wireless connectivity is also possible using Wi-Fi mode.

#### Technology

The research teams at SPORT QUANTUM and CEA List have jointly developped a technology capable of precisely locating impacts through shockwave measurements. This groundbreaking innovation has resulted in four international technological patents which achieves the performance standards required by ISSF and Olympic disciplines, including accuracy surpassing one tenth of a point or 125 micrometers.

#### Improve

Because progress relies on performance measurement, the SQ Air 10 provides shooters of all levels, from beginners to competitors, with the capability to analyze all aspects of their shooting practice, track their progress over time, and access effective training methods.

#### Have fun & share

Whether you are a child or an adult, an enthusiast or a competitor, sport shooting remains a leisure activity. SPORT QUANTUM technology proposes an innovative approach to precision shooting training. Shooters have access to an important library of training and fun exercises that focus on methodology, accuracy and right pace. Moreover, they can engage in friendly competition by practicing on the same cards as other athletes and share their performance and passion on social network platforms.

#### Competition

The SQ Air 10 target is approved worldwide by the ISSF for all official disciplines. See Additional approvals for na available for France (FFTir), UK (NSRA postal competitions), Norway, Sweden, Czech Republic, Austria and Finland.



Additional approvals for national disciplines are also Republic, Austria and Finland.



# SQ App Usage and features



# SQ App start and configuration







# Start up: open the App and connect to the target

If the App does not open automatically, click on the SQ App icon. The App should connect automatically to the target. If you see this page :

- if you use wired connection, verify that the cable is plugged correctly to the SQ Touch and SQ Air 10

- if you use wirelss connection, please refer to Wi-Fi settings on page 58





### SQ App landing page





## App and target settings 🟚

Click on or to access the app and target parameters page





# (Q) sportquantum App and target settings (a)

Display parameters on your target

1				ا الله الله الله الله الله الله	
					Display zones on the target
	Card pattern	•		-	Brightness of the target
	Brightness Device distance Shut down the target after 2h of inar	•	о		Select the target position (shooting distance) from 3m up to 15m
	Display holes Display last impact	cuvity	3 R 3 R		When the shooting distance is not 10m, adjust the rifle aiming point. Set the position
	Blink last impact		• 5		of the red dot at the current impact position while aiming at the center
			5		Display impacts on the target
					Display the last impact on the target
					Display a blinking last impact on the target



# sportquantum App and target settings

Display on your SQ Touch tablet

	۵» <del>۵</del>
DSPLAY - MPP Cand color	Color of the black zones on the SQ Touch A
Card solor	show all the impacts at the end of the match
CARDS Card variant	Display decimal scores for each impact. Th global scoring is not affected
LOCK Lack application	Use pistol sized cards when using rifle optio
Lack application an start up Lack "Quit"	for some practice and fun caras



## App and target settings 🟚



Kiosk is enabled by default. If the kiosk has been removed, it can be enabled again by an administrator



## App and target settings 👩

Cited unlinet	Lasse official confis	0
Constanting (Constanting)	carge into carea	🔪 1. Click on icon 🥚
LOCK		<ol> <li>Enter the following po</li> </ol>
Lock application	tana, yana 🚔	<ol> <li>Click on "Unlock".</li> </ol>
Look application on start-up	📫 🍈	
Lock "Quit"		
Lock settings	○ A	
Change password	ax 👜	When the App is unlock
RESET		features locked with the accessible.
Reset default settings	ener 🖉	
Remove Klosk mode	REMAY KARE	NB : Only an App full re administrator can be u password
	Lock application Lock application on start-up Lock "Quir" Lock settings Change password RESET Reset default settings	LOSK Lock application Integration Start-ED Lock application on start-ED Lock settings Integration I

#### How to unlock the SPORT QUANTUM application

assword "1896"

ed, all buttons and e 🔒 icon will be

eset by an used in case of lost



## Help and support 📀





#### App and target usage



# Weapon selection and activities



Select your Weapon: Rifle or Pistol

You can change your weapon at any time by returning to the main menu.

#### Then select your Activity :

- Practice tools and exercice
- Precision shooting competition and practice
- Training games Playfull learning



#### **Practice tools**





## **Training tools**





#### **Training tools**





#### ) sportquantum Training tools



Information about the exercice



# Precision shooting



#### Choose your target visual : 3 steps





#### Choose your target visual : 3 steps





# **First step: Training or** competition configuration





#### **Choice of discipline** Training or challenges (competitions)





# First step: discipline

- Free shooting
- Contract training





#### sportquantum Choice of discipline (Free shooting)





# **Choice of discipline** (contracts)



Easy	Medium	Hard	Points
10,9 - 10,4	10,9 - 9,4	10,9 - 8,4	+ 2
10,3 - 10,0	9,3 - 9,0	8,3 - 8,0	+1
9,9 - 9,4	8,9 - 8,4	7,9 - 7,4	0
9,3 - 9,0	8,3 - 8,0	7,3 - 7,0	-1
8,9- 0	7,9 - 0	6,9 - 0	- 2

#### **Contract target - Pyramid**

The goal is to shot every score present within the pyramid. Each floor is at least equal to the previous one. Challenge more yourself choosing the 'bottom-top' approach. Thanks to this exercise you will be challenging yourself either during each shot or with the view to do a global performance.

#### Longest series "Contract" target

Test your discipline, stamina and mental strength by shooting the longest possible series without any misses. You can adjust the degree of difficulty according to your specific requirements.

#### **Free shooting**

Custom your own classic shooting session.

#### **Contract target - Points**

Reach 5 or 10 points with as few shots as possible. Depending on the chosen level, each shot will give you points ... or penalties!



#### **First step:** Discipline Challenges / Competitions

- ISSF Competition
- FFTIR Competition
- Other Competition



#### **Choice of discipline** (Challenges / Competitions)





#### sportquantum Choice of discipline (Challenges/Competition)





FFTIR Disciplines – Pistol

#### **Choice of discipline** (Challenges/Competition)

- 1- Ch. de France des clubs Adultes, qualifications 2- Ch. de France des clubs EDT, qualifications 7-8 élèves à 10m FFTIR Disciplines - Rifle 1- Ch. de France des clubs Adultes, qualifications
- 2- Ch. de France des clubs EDT, qualifications
- 3-30 coups

3- Standard 4-3/7 5-30 coups 6-40 coups

- 4-40 coups
- 5-8 élèves à 10m
- 6- 3x20

- FCSF Discipline Pistol
- 1- Pistolet 10m 60 FCBF 2- Pistolet 10m - 40 FCBF

- ISSF Discipline Pistol
- 1-10m Air Pistole 60

- FCSF Discipline Rifle
- 1- Carabine 10m 60 FCBF 2- Carabine 10m - 40 FCBF

- FCSF Discipline Rifle
- 1-10m Air Rifle 60



#### Second step: **Card design**





#### **Choice of card design** (National and international fererations)





#### Third step: Card variants





#### **Card variants**




### Card variants customization : target entry



CUSTOMIZE

Customize

Distance from the tip of the triangle and the center of the target

Direction of the approach (from top or bottom)

Angle or size (if angle is 0) between the triangle edges



## **Shooting session**





### shooting session



This information can be used to adjust your sighting device.



## Impact and score display settings



## (Q) sportquantum Rapid fire "standard" shooting settings





### **Rapid fire "standard" shooting**





### **Export your results**





### Save your results in PDF or CSV format





### Save your results in PDF or CSV format





## Playful learning





### sportquantum Choice of training games







## **Choice of training games**

#### **Individual games**

Apple tree Balloons (Simple / Advanced) Rugby Football Bubbles Lucky number Ball-trap Bottles Cut the string Wall breaker Wheel (Simple / Advanced) Random Targets (Simple / Advanced) Pipes Random trajectories (Simple / Advanced)

#### **Multiplayer games**

Dueling Tree (Simple / Advanced) Four in a row Pong Tic-tac-toe Darts (Simple / Advanced) Archery Wheel of fortune

\* Some games are in demo mode : the number of impacts and duration of use are limited



### **Game shooting session**

#### **Examples: Apples and balloons**



#### Apple tree game

Apples of different sizes fall from the tree. The goal is to hit them successfully. The smaller the apples more points they score.

When an apple is hit, the corresponding score is displayed

- Balloons game
- Balloons of different size and speed are moving on the screen. The smaller the balloons, the more points they score.





### Multiplayer game example: dueling tree



### **Dueling tree**

Two players will compete by shooting at the same time at the target (each in their own leaf color).

When a target is hit, its color changes and passes to the opponent's side

The first of the two players to have no target left wins.

Area (configurable) to hit



## Technical Specifications

APK 2.0.0 Hardware rev 2





### (O) sportquantum SQ Air 10 - General overview



### (O) sportquantum Target dimensions



NB : All dimensions are expresses in millimeters (mm)



APK 2.0.0 Hardware rev 2



### (O) sportquantum Technical specification

Description	Technical Specifications			
Dimensions	507 mm x 406 mm x 295 mm			
Weight	9 kg			
Maximum weapon muzzle energy at 10m	7.5 J (joules) recommended (premature top plate wear above 8 J)			
Main power supply	110-240V AC / 50-60 Hz			
Power supply to the target	12 V DC			
Temperature	Operation range 0°C - 35°C, storage range -10°C - 60°C (storage below 0°C might cause premature wear of the system)			
Humidity	8-80%			
Power consumption	25 W			
Maximum brightness	1500 Cd / m <sup>2</sup>			



## First installation process

APK 2.0.0 Hardware rev 2



## Getting started with SQ Air 10 interactive target



#### The target must be securely fixed :

- Using the supplied wall-mounted bracket (see attached diagram)
- Using a optional supported tripod.

For all other mounting options, please refer to the accessory instructions

- The back of the target must be 10.18m at the firing line
- The center of the precision pistol target visual must be set at 1.40m from the ground. To do this, the bottom of the bracket must be set at 1.42m or the top of the bracket or tripod must be set at 1.47m.

APK 2.0.0 Hardware rev 2



## Setting up the target



- Fix the bracket to the wall using the supplied screws and wall plugs (for concrete walls)
- Hang the target on the bracket using the two hooks on the back of the target
- · Adjust the inclination of the target using the "verticality" bolts

#### Use a spirit level to check verticality

• Put the corresponding SQ Touch tablet on the shooting lane table



### **Precaution of use**



- **Important**: before the first use, apply some silicon gel using a clean cloth, apply a little silicone gel to the plycarbonate top-plate impact plate that protects the SQ Air 10's sensor plate
- Repeat this action regularly to create a light protective film, especially at the center of the target
- Between two maintenance sessions with silicone gel, clean your target with rubbing alcohol and a soft cloth to remove potential dust traces
- Position the power supply unit in an area protected from direct fire
- Once your target has been powered off, it can be powered back on either by shooting at it or by unplugging and plugging back the power supply after 10 seconds.
- Important : Do not shoot at the target without the cover or the pellet drawer

The rifle visual might not appear at the center of the target. This is a normal behavior to increase the durability of the topplate : every ~100 impacts, a new center position is will be automatically selected when possible. The center position will not change during the whole shooting session (sighting and match) but only between shooting sessions.

This behavior can be adapted by the supervisor to garantee competition fairness between athletes.

When a new top-plate is installed, the impact counter and center position is reset to the initial center position. To reset the top-plate impact counter, go to the connexion page (m) and click "Reset Top-plate counter

### APK 2.0.0 Hardware rev 2



## Peer-to peer Wi-Fi setup <u>A</u>

The Wi-Fi connection quality between the tablet and the target may be influenced by the surrounding environment. Specifically, a high concentration of Wi-Fi devices such as smartphones, computers, targets, tablets, or disruptions from radio frequencies caused by metallic walls or tables can significantly degrade the Wi-Fi signal. In such instances, the connection between the tablet and the target may experience slowdowns or interruptions.

This is a known limitation of the Wi-Fi technology and is independant of the SPORT QUANTUM product.

In situations where high reliability is crucial, such as official competitions, it is strongly recommended to use wired connection.

APK 2.0.0 Hardware rev 2



### Connection status between the SQ App and the target



Connection status to target (click to go to the connection settings)

Different possible status:

- 🔌 SQ App is connected to the target
- The SQ App is not connected to the target. Please refer to the trouble shooting section p65
- ( ) The SQ App is currently trying to reconnect to the target





### **Connection settings**





### **Connection settings**

+					â			
	RSSI/ Level	-T0dBm (9/10)						
	Spred	72Mbps						
	NETWORK INFORMAT	TION					• To	arget firmware update. Please refer to
	wfan0	81.16.45.21.19.26	172.27.154.172			/		aintenance section for futher details
	NAME							
	Name			default	05 🚔			
	DEVICE UPDATE							
	Version			antifals hiskaw	**** <b>*</b>		• C	urrent configured target IP address and
	REMOTES CONFIGUR	ATION						onnection status
				10.	0.0.100			
	SHOW SUPERVISE	DRS		Not conr	nectedo			



### Connection settings

If needed, you can change the configured IP address that the App uses to connect to the target.





## Troubleshooting **Wi-Fi connection** problems





## Possible cause 1: The SQ Touch tablet Wi-Fi is not paired with the target



First, verify the pairing status of your tablet with the target

- 1. Quit the SQ App
- 2. Click on "Settings"

3. Check if the WLAN status below the WLAN line is "enabled" (see next step 4) or "disabled" (see next step 5).

**4.** If the status is "enabled", verify that the specified SSID is "SQ Target XXXX" of the corresponding target (might wrongfuly paired with your Internet box, a mobile phone etc.). If the corresponding SSID is correct, go to next page "Possible cause 2", else continue to step 5.

5. If status is "disabled" or the SSID is incorrect, click on the WLAN line and select the correct SSID "SQu Target XXXX" of the corresponding target. You can find this SSID at the bottom of the target screen. Enter "sportquantum" as the default password if asked.





## Possible cause 2 : The SQ App is is not connected to the target

Please verify in the previous page (Possible cause 1) that the SQ Touch tablet Wi-Fi is paired with the target.

1. Go to the homepage of the App

2. Click on the ( 🔹 ) settings icon at the top right

3. Scroll down and verify the message displayed in the "Remotes configuration" section. If "Show devices" line shows "Not connected" with a red cross or if the line shows an IP address in the format "XX.XX.XX.W" with a red icon after, proceed to next step. If the line shows a green icon, your connection is operational

**4.** On the corresponding target, check the configured IP displayed on bottom line of the target screen (in the format "XX.XX.XX."). NB: If your target is in peer-to-peer mode, it should show "10.0.0.10"

5. Click on the ( 🚔 ) icon to unlock the settings. The default password is "1896"

6. Click on "Show targets" and click on "Auto" and "Connect" in front of the default line "10.0.0.10" if your target is in peer-to-peer mode. Otherwise go to step7

7. Enter in "Host / IP" field the IP displayed at the bottom of the corresponding targtre screen (in thr format "XX.XX.XX") and click "+Add" 8. On the new added line, click "Auto" and "Connect"



# Service and support



### (O) sportquantum Electronics unit





### (O) sportquantum Electronics unit











The serial number is located in front of the target, at the bottom right.

Please always refer to the serial number in all your communication with our support team



### Troubleshooting



### • Target doesn't light up:

1. Check if the power supply is correctly plugged on both ends

**2.** Check the red LED on the sensor board (see picture 71). If the sensor board LED is off go to step 2, else go to step 3.

**2a**. Check if the power supply is not damaged (you can test on another target). If the power supply is damaged, it needs to be replaced.

**2b**. If the power supply is working, then the sensor board needs to be replaced.

**3.** The sensor board and the power supply are working correctly. Check the red LED on the computing board (see picture 71). If the computing board LED is off it needs to be replaced.

**4.** Check if the SQ Touch can connect correcly to the target (even if the target display is off). If it can connect go to step 5, else go to step 7.

5. Check if the display cable is correctly plugged in.

6. Check if the LED driver and the LVDS driver are correctly connected. If the problem persists, contact support

7. Update the Firmware on a new SD card on the computing board (refer to specific maintenance procedure). If the SQ Touch cannot correctly connect after this procedure, the computing board needs to be replaced.






## • Target and the tablet are switched on but connect icon shows a red cross ((\*))

**1.** If you have a Wi-Fi installation check the Wi-Fi pairing : refer to the procedure p59, else go to step.

- 2. If you have a wired installation, check if the RJ45 are correctly plugged in.
- 3. Check the SQ App/target connection parameters p60.
- 4. Check that the SQ App and the target have compatible versions (in the format X.X.X).

Version of the target firmware can be found on the bottom left of the screen.

Version of the App can be found in bottom left of the home page.

The first two numbers should be the same (for instance App v2.0.1 and target firmware v2.0.0).

If the versions are not compatible, upgrade either the App or target firmware.

5. If the problem persists, contact your local support.

## Impact not detected

2. If you have "parasite impact messages", check that there is no silicon oil or air bubbles that are trapped between the sensor plate and the top-plate (impact plate).. Otherwise, disassemble the top-plate and clean both internal surfaces with rubbing alcohol.

**3.** It's is necessary to reapply a small quantity of silicon oil on the exterior surface of the top-plate (impact plate)is necessary.

4. Change the top-plate (impact plate).

5. Check that the sensor plate connector is correctly plugged in the sensor board.

6. If the problem persists, contact your local support.



# Maintenance



APK 2.0.0 Target firmware



# sportquantum Recommended maintenance procedure

- In order to guarantee optimum operation of the Products, the Customer undertakes to :
- Respect the maintenance operations indicated:
  - Surface of the top-plate (impact plate) of the Product should be brushed with silicone oil once a week or every 250 shots, using, for example, a cloth or absorbent paper. Do not use mineral oil or spray!
  - Leads tray should be emptied approximately every 3,000 shots.
  - Regularly check that there is no dust inside the product and at least clean up twice a year
  - As a result of electrostatic phenomena, dust may trapped between the screen and the transparent polycarbonate impact plate, so unscrew the polycarbonate plate (4 screws) and clean the polycarbonate plate and the screen with product suitable for cleaning TV screens or computer screens.
  - Once a year, the target should be dusted with a compressed air spray suitable for cleaning computers, cameras or any other electronic device.
  - Never use acetone on the polycarbonate plate
  - If the top-plate (impact plate) shows significant deformation, replace it with a new plate supplied by SPORT QUANTUM
- Update the Solutions whenever SPORT QUANTUM provides information.
- Failure to follow the maintenance rules may result in faster deterioration of the Products and, above all, loss of the warranty.
- The Customer is responsible for carrying out the necessary maintenance operations as defined, at regular intervals and in a professional manner. To this end, the Customer must employ competent personnel for the operation and maintenance of the Products.



# Warranty

APK 2.0.0 Target firmware







SPORT QUANTUM guarantees that all delivered products will be free from any physical and manufacturing defects under normal conditions of use and service for a period of two (2) years from the delivery date.

If a product is faulty, SPORT QUANTUM or the local distributor may either replace it (with at least an equivalent product) or repair it (with refurbished spare parts or new spare parts), as the company or the distributor deems fit.

The Customer must give SPORT QUANTUM time required, as well as the opportunity, to carry out the repair or replacement.

This warranty is only valid if the original invoice (showing the date of purchase, the type of product and, if applicable, the name of the distributor) is enclosed with the faulty product.

SPORT QUANTUM reserves the right to refuse to carry out a repair free of charge if these documents are absent, incomplete or illegible.

The warranty is not valid in the cases provided for in the General Terms and Conditions of Sale. Nor does the warranty cover parts affected by normal wear and tear, as specified in the General Terms and Conditions of Use of the products.

Extension of Warranty

If the Customer subscribes to an annual warranty extension, the Warranty and Repair Conditions keep their full validity, except for the duration of the warranty.

## The warranty period is :

- For new Products: Two (2) years from the date of pick-up by the carrier.
- For repaired Products: Six (6) months on repaired Products and on replaced spare parts, from the date on which the carrier takes delivery of the repaired Products.
- In the case of a subscription and for the "continuous" supply of Solutions: at any time during the subscription period.



# Management faults during the warranty period



- Service and support form can be downloaded from <u>www.sportquantum.com</u> must be duly completed and enclosed with any faulty item. Customer may be charged for the diagnostic costs. If the form is not provided
- During the warranty period, SPORT QUANTUM or the local Distributor will organize the transport at its discretion.
- SPORT QUANTUM shall bear the cost of repairing and returning the item to the Customer if the fault is covered by the warranty.
- If the fault is not covered by the warranty, as stated in the General Terms and Conditions of Sale and the General Terms and Conditions of Use of said product, the request will be treated as an out-of-warranty fault., that is to say that transport costs, administrative fees and maintenance costs will be invoiced to the Customer.

# O sportquantum Management of outof-warranty faults



- Service and support form can be downloaded from <u>www.sportquantum.com</u> must be duly completed and enclosed with any faulty item.
- The Customer will bear the cost of transport to SPORT QUANTUM or the local Distributor and the return shipment costs.
- For each repair request, there will be an administrative fee.
- Labour will be billed and the spare parts will be invoiced at their list price at the time of the repair.
- Please contact SPORT QUANTUM or your local distributor regarding any express repair request.
- If no fault is found, the Customer will still be invoiced the administrative and diagnostic fees.









### **General Recycling Statement**

• SPORT QUANTUM encourages owners of electronic equipment to responsibly recycle their equipment when it is no longer needed.

### Information about Recycling in the European Union

• The top-plate (impact plate) as well as the plastic hood shall be disposed with recyclable waste



### Important Battery and WEEE Information

- Batteries and electrical and electronic equipment marked with the symbol of a crossed-out wheeled bin may not be disposed as unsorted municipal waste. Batteries and waste of electrical and electronic equipment (WEEE) shall be treated separately using the collection framework available to customers for the return, recycling, and treatment of batteries and WEEE.
- When possible, remove and isolate batteries from WEEE prior to placing WEEE in the waste collection stream. Batteries are to be collected separately using the framework available for the return, recycling and treatment of batteries and accumulators.
- SPORT QUANTUM products sold in the European Union, meet the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

### Declaration of Conformity with the Requisite CE Standard

• Conformity European Union



# Terms and conditions





## **Rules of use**



The Rules of Use below detail the rights and obligations of SPORT QUANTUM's customers when using a Product or Solution. It is the Customer's responsibility to pass on these Rules of Use to all Users of the Products and Solutions, and to ensure that they are respected. In the case of an authorized minor User (under 18 years of age), the Customer must transmit these Usage Rules to the holder of parental authority, who accepts them and ensures that the minor child has understood them.

SPORT QUANTUM may modify these Rules of Use from time to time. These modifications will be available thirty (30) days before they come into force on the www.SportQuantum.com website. It is the responsibility of each Customer to ensure that he/she has the current Rules of Use at all times.



# Safety rules for product use



In order to guarantee maximum safety in the use of the Products, the Customer and/or User must ensure in particular, but not exclusively, that :

- The place where the Product is installed and used is adapted to the safety requirements of Sport Shooting, in accordance with the regulations of the country in force, and with the rules of use of Sport Shooting as promoted by the International Sport Shooting Federation (I.S.S.F.) or the Sport Shooting Federation of the country where the target is used.
- Any spectators or other persons must be behind the shooter.
- All safety rules relating to the use of weapons must be observed.
- It is imperative to shoot facing the target, with the weapon strictly perpendicular to the hanging plane, the target itself being mounted vertically using the adjustment screws. The shot must land on the dedicated surface, i.e. the screen.
- All users and spectators are under the supervision of a person capable of ensuring compliance with all the safety rules governing the practice of Sport Shooting, in accordance with the aforementioned safety requirements.
- In addition, to prevent any risk of electrocution, never immerse the cord, plug or device in water or any other liquid, and never carry out maintenance operations when the equipment is live.



# Dangers inherent to sport shooting

T	8	C	

Consequently, SPORT QUANTUM cannot be held responsible for any accident occurring during the use of the Product. SPORT QUANTUM provides electronic targets but is in no way responsible for their use, for the use of weapons, and for compliance with the safety rules and good practices inherent in this sport, which, given its dangerous nature, must be systematically respected at all times and by everyone.

The Products are intended for experienced Sport Shooters who are fully familiar with the rules and practices of this sport as defined by the International Shooting Sport Federation (I.S.S.F.).

Customers of SPORT QUANTUM, as well as any other User of a Product, are aware of the dangers of this sport, and undertake to respect all the safety rules applied and applicable to the practice of this sport during any use of the Product, whatever the purpose and location (in a Shooting Sport club, at a Shooter's home, or any other location suitable for Shooting Sport). In particular, but not exclusively, care must always be taken to ensure that :

- Weapons are unloaded and secured when not in immediate use.
- A loaded weapon is always in hand
- A loaded weapon is always pointed to the target.
- Under-age children must comply with the age-appropriate restrictions on access to weapons and sports as defined by current legislation.



# Perfect working condition



To ensure proper operation of the Product and Solutions, the environmental conditions necessary for the use of such a target must be respected, in particular :

- In the event of malfunction, problems or damage to the Product, the Customer and/or User must disconnect it immediately and contact SPORT QUANTUM's After-Sales Service as soon as possible.
- If the Product shows signs of malfunction during use, unplug it immediately.
- Do not use a defective unit or attempt to repair it yourself.
- If the unit is dropped or accidentally immersed in water or any other liquid, unplug it immediately. Do not use the unit afterwards.
- Humidity should be at a reasonable level, and in any case below 80%.
- Product is not suitable for outdoor use.
- The Product is a precision tool. It must not be dropped or subjected to shocks other than the impact of pellets on the polycarbonate plate, the latter coming from a weapon whose power does not exceed the thresholds indicated below.
- The electrical power and current of the target's power supply must be constant and between 100 and 240 V AC 50/60 Hz.





Τ	<b>&amp;C</b>

- Never shoot at the target without the front cover and the pellet drawer.
- The product must be hung with care and must be strong enough to withstand the weight of the target over a long period of time, and the power of the impacts during shooting.
- The front cover must be carefully positioned, . If the target cover is damaged target must be out of use and cover raplace.
- The transformer/adapter box and the target's power cable must be protected from fire at all times.
- Regularly check that the top-plate (impact plate) is securely screwed down, especially after each transport.
- The Wi-Fi connection quality between the tablet and the target may be influenced by the surrounding environment. Specifically, a high concentration of Wi-Fi devices such as smartphones, computers, targets, tablets, or disruptions from radio frequencies caused by metallic walls or tables can significantly degrade the Wi-Fi signal. In such instances, the connection between the tablet and the target may experience slowdowns or interruptions.
- This is a known limitation of the Wi-Fi technology and is independant of the SPORT QUANTUM product.
- In situations where high reliability is crucial, such as official competitions, it is strongly recommended to use wired connection.
- In any case, never attempt to use the Product for purposes other than those for which it was designed.

# Sportquantum Updating of the SQ-App application and target firmware



It may be necessary from time to time to obtain updates or new versions of the Solutions and/or Product firmware, in particular to correct any bugs, but also to adapt to any changes in the framework defined by the ISSF - International Shooting Sport Federation - issf-sports.org

It is the responsibility of the Customer and/or User to ensure that they have the latest available version of the SQ App and firmware. The latest updates are transmitted by SPORT QUANTUM by any available means. It is nevertheless advisable to check the compatibility of the hardware version of the Product and the available software versions beforehand.



# Contact

APK 2.0.0 Target firmware



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## **SPORT QUANTUM support team**

### **Service and Support In France**

e-mail: support@sportquantum.com Phone: +33 980 087 087

### **Outside France**

Please contact the SQ Air distributor or SPORT QUANTUM Customer Service

#### **SPORT QUANTUM**

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