

***SCATT* USB**

SHOOTING TRAINING SYSTEM
USER GUIDE

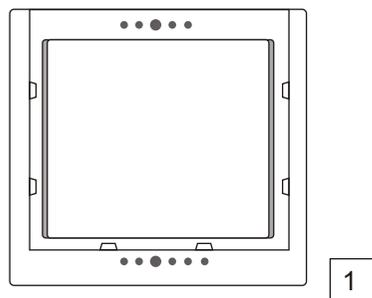
SCATT

SHOOTER TRAINING SYSTEMS

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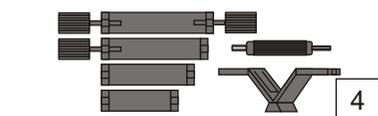
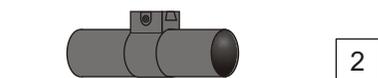
The address of the representative in your region

Dear customer, thank you for buying this system. Please read this manual to its end to secure safety and best quality of the system's operation.



Accessories

Please check and identify all supplied accessories.



1. Electronic target 4 - 12m.
2. Optical sensor
3. Barrel inserts kit for the optical sensor (option)
4. Mounting plate kit for the optical sensor
5. Target control unit
6. Optical sensor's interface cable
7. Target interface cable
8. Trigger sensor (option)
9. Pulse sensor (option)
10. Software CD
11. User guide
12. Packing

SAFETY INFO

Notice!
Infrared radiation used this device is safe for health.

Warning:
protect this device from moisture, don't open the device body.

Notice!
The device doesn't contain any parts which you could repair yourself. In case of any problems with your Training System, please contact the Service Station.

POSITION

Don't position the device in places exposed to:

- direct sunlight
- high temperature
- high humidity
- violent vibration,

you may damage the body of device and/ or any other components and reduce its service life.

INSTALLATION

Never put heavy objects on the device, interface cables and wire.

Content

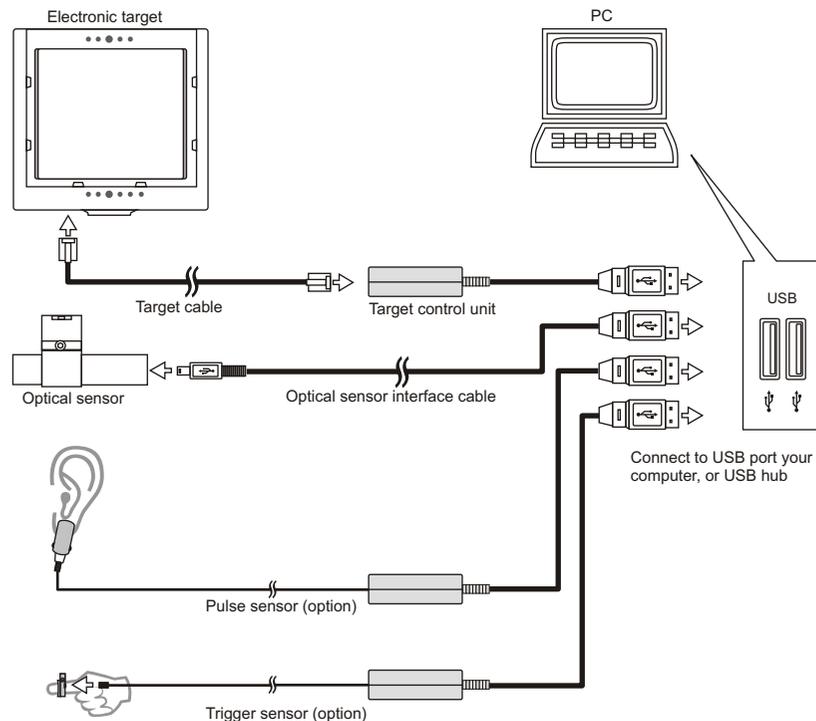
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SCATT installation

Connecting



SCATT USB is an electronic training system of shooting which operates complete with PC. Make sure your computer corresponds to these requirements*.



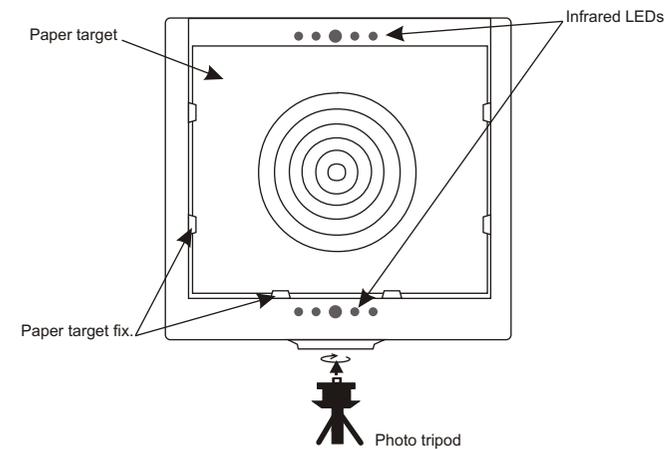
*Min. Requirements to your PC

IBM PC compatible computer, Processor 350Mhz or higher, 32Mb RAM, CD-ROM drive.
SVGA monitor(800 x 600 16-bit color), two USB ports.
Windows®: 98, 2000, Me, Xp. Internet Explorer 4.01 and later versions.

SCATT installation

Electronic target installation

Install the electronic target on the tripod (photo tripod) or fix it on the wall at the distance from 4 to 12 m so that the LEDs face the shooter. Insert a paper target but make sure it doesn't cover the LEDs.



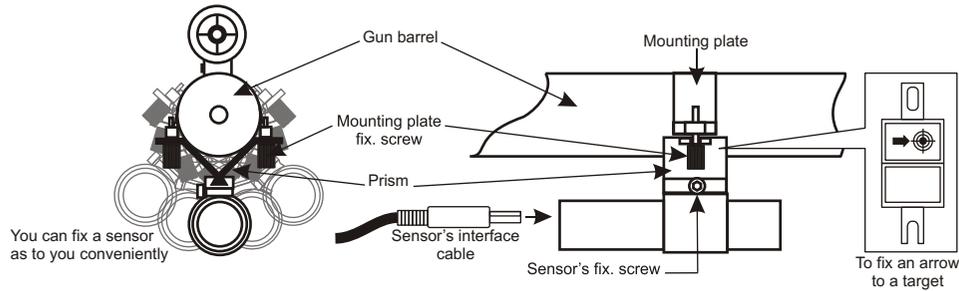
Connect an electronic target to a computer (as shown in to the circuit). The computer will find out new USB device. After that It is necessary for you to install the driver from the software CD.

Optical sensor installation

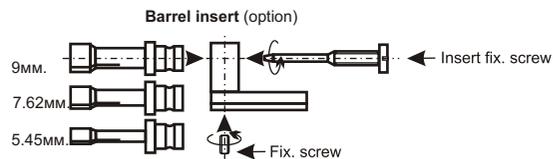
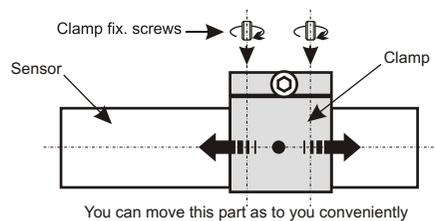
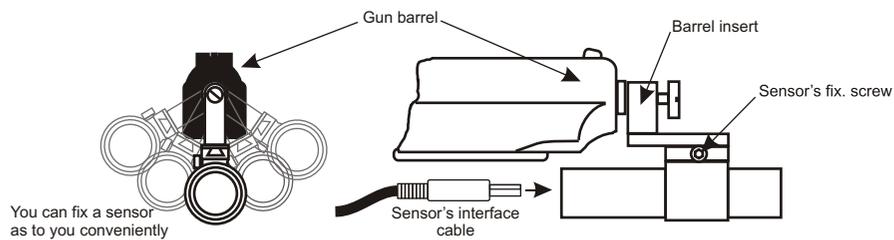
To mount the optical sensor on the gun barrel, use the mounting plates, provided in a set; if you cannot fix the sensor on the gun barrel, use barrel inserts. After installation the sensor on the gun, connect it with computer (as shown in the circuit). The computer will find new USB device. After that it is necessary for you to install the driver from the software CD.

SCATT installation

Use mounting plates to fix the sensor on the gun barrel



Use barrel inserts to fix the sensor on the gun



Operating SCATT



Software setting up

To operate SCATT, set up SCATT Professional program on CD (provided in a set) to your PC.

Insert disk in the CD-ROM drive, select SCATT. EXE icon in the disc drive window and follow instructions on the screen. When the settings is over , select SCATT icon in a program manager to start the program.

Starting SCATT USB

Turn on the computer. To activate SCATT program, double-click the mouse left key on this icon.

To start training, push NEW PRACTICE on the control panel in a FILE menu or () icon, opening NEW PRACTICE window (fig. 1).

New practice

In this window indicate the following:

1. Shooter's name
2. Shooting exercise* and push **Start**.

Notice: At initial start, the program will demand to enter the system codes written along with its Numbers on the SCATT guarantee stub.

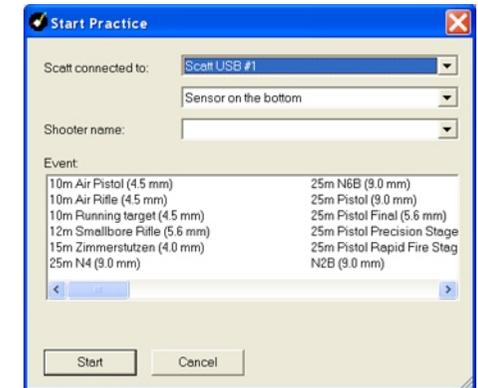


Fig.1

*With this program you can select a shooting exercises from the offered list with the top shooting events and targets.

Operating SCATT

Optical sensor adjustment

After you have chosen shooting event, the program automatically opens a calibration window

An optical sensor automatically detects a distance to an electronic target (in limits from 4 up to 12 meters). Aim at a target and make a single dry shot. The breach should get inside of an internal circle. If the breach is displayed outside of a circle, check the mounting of a sensor on the barrel.

To start calibration manually at any time select "Adjust optical sensor" command from the "Shooting" menu or just press F2 key.

Optical sensor aiming point

Signal level received from the target

Trigger response regulator (If the shot-hole is not displayed on the screen reduce value of piezo sensitivity)

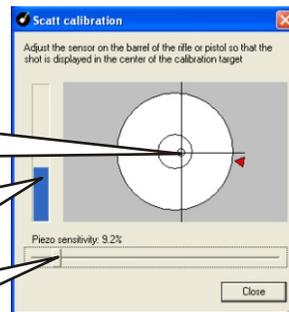
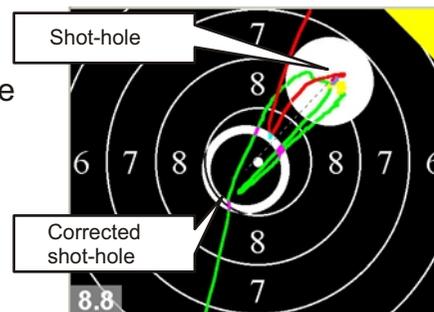


Fig. 2

Using the electronic corrections

Use the mouse to make an more electronic correction by moving shot-hole in the required direction.

When directing to the shot-hole, the mouse pointer will assume the form of a palm so keep pushing left mouse button and move the shot-hole in the required direction.



Running the program

Practice window

When aiming, the aiming trace is displayed with the shooting moment fixed on the target by the shot-hole. (Fig. 3).

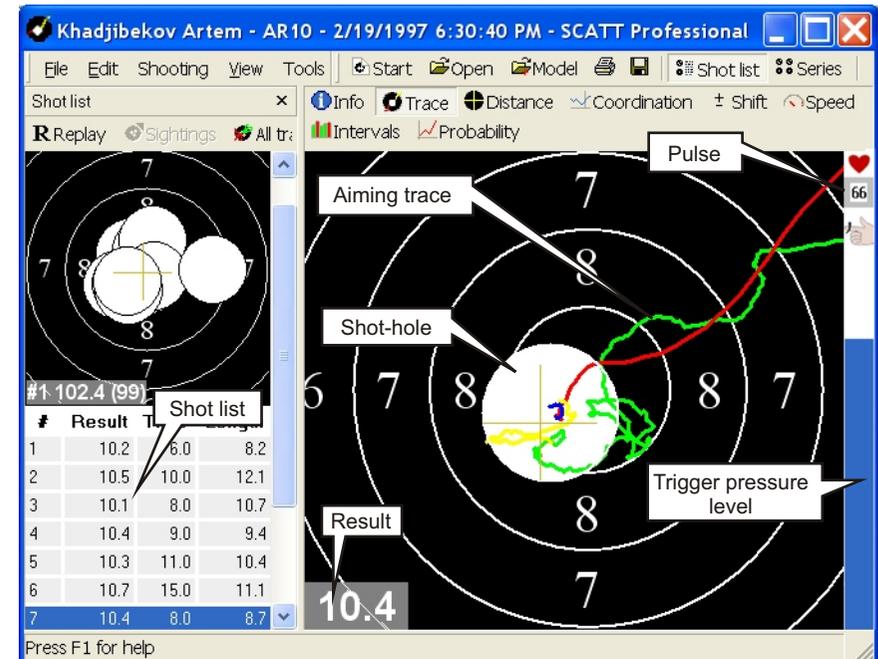


Fig. 3

Scaling the target

You can change the displayed target scale if you push 1-9 number on the keyboard. Keyed in numbers correspond to the target score rings. The target automatically adjusted if the shot-hole is out of the target area, displayed on the screen.

Running the program

Using the toolbar

During practice the control panel is displayed as follows (fig. 4). When training, a shooter can control certain program functions and data shown on the screen.

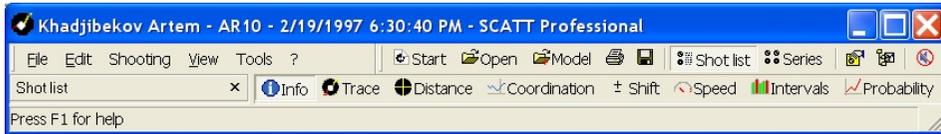


Fig. 4

If you have any questions about using the program see Help menu (fig. 5) on toolbar "?".

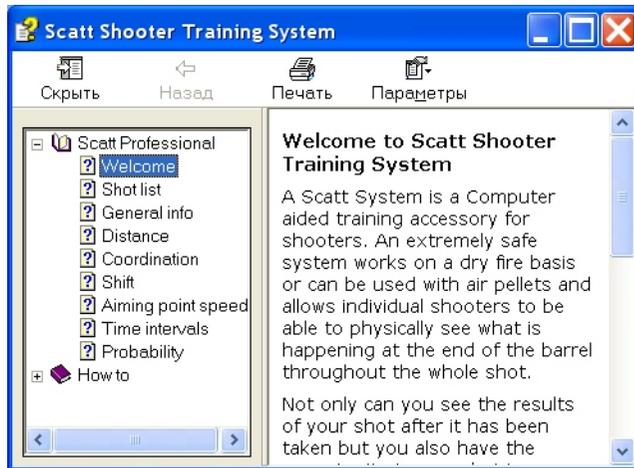


Fig. 5

Specifications

Weight:

900g

Dimensions:

208 (pc.) / 235 (v) / 30 (g) mm
(Electronic target).
20 (pc.) / 26 (v) / 72 (g) mm
(Optical sensor).

Temperature operating type:



NOTE

Specifications can be modified by manufacturer without being worded in this manual.
Weight and dimensions are approximate.

Running the program

Short keys

“Ctrl+N”	New practice
“Ctrl+O”	Open file
“Ctrl+P”	Print practice results
“Ctrl+S”	Save practice results
“F1”	Help menu
“SPACE”	Replay aiming trace
“F4”	Info menu
“F5”	Trace
“F6”	Distance graph
“F7”	Coordination graph
“F8”	Shift graph
“F9”	Speed graph
“F10”	Intervals graph
“F11”	Probability graph
“F12”	Full screen

Troubleshooting

Software reports “SCATT device was not found”	Make sure SCATT units are connected to computer.
No signal from the optical sensor	Either the target or the optical sensor are not connected, the distance to the target has been incorrectly selected. Check all connections, restart SCATT Professional.
When the sensor enters the target area, it results in a spontaneous shot	Adjust sensor piezo sensitivity

*If the given recommendations do not help solve your problem, consult the Service Centre.

Service

Clean this device with soft dry cloth. If the surfaces are too dirty, use soft cloth, wetted in suds or in mild soap detergent solution. ! Never use solvents or petrol to clean the device.