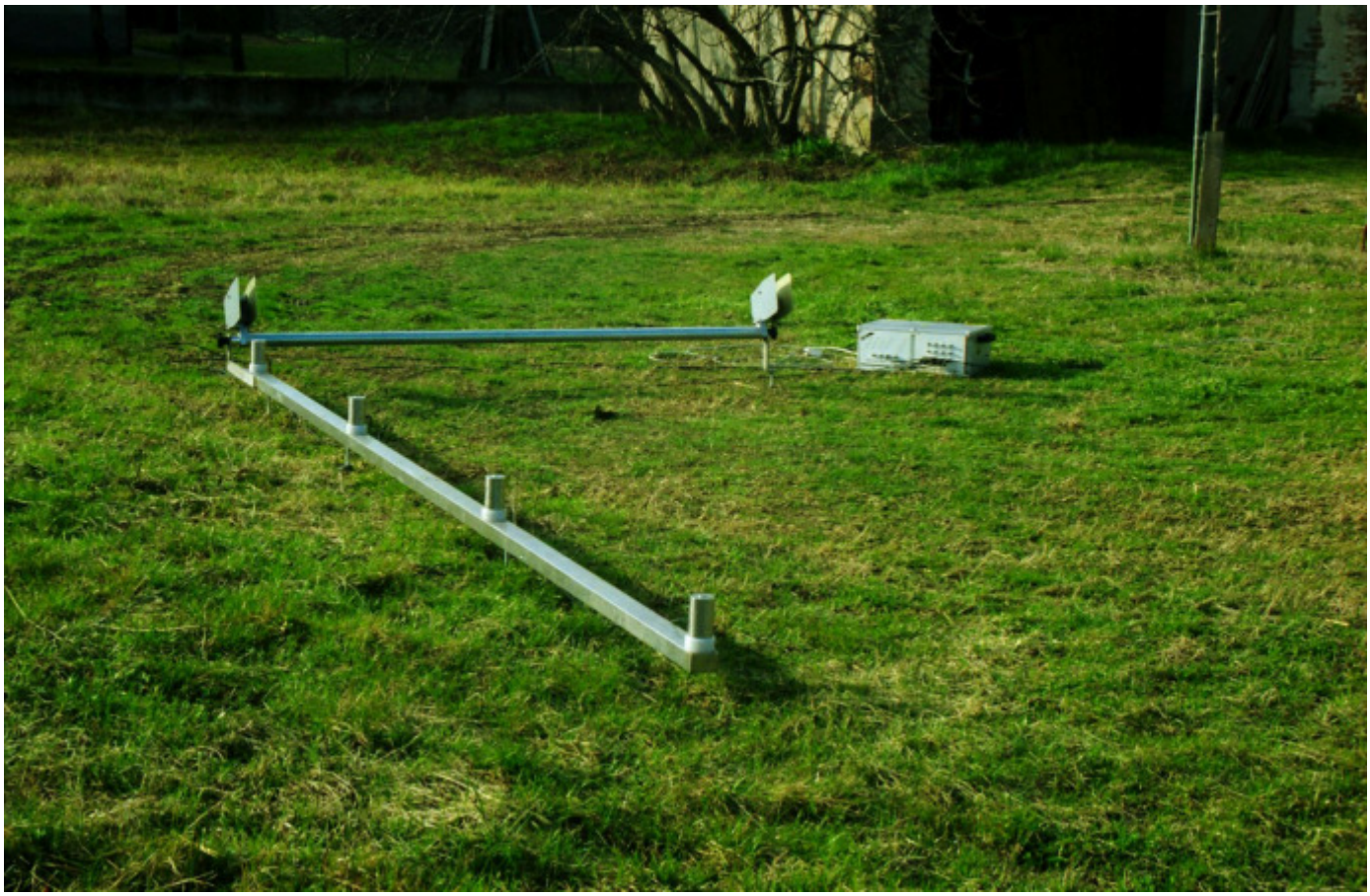
Bullet impact coordinate measurement

Acoustic system

SAAC2



Main characteristics:
The SAAC2 is the evolution for the XXI century of the SAAC1. The SAAC2 use 4 high resolution sonic pressure transducer and a RADAR speed measurement unit to evaluate the position of the bullets crossing the section of the virtual screen (for large caliber extend outside the footprint of the real target).
The system can be configured to be used as ground target (with vibration sensors) to measure Impact point of the bullets in aircraft testing with live ammo.

Key Features: heavy duty, easy to use, portable; stable and accurate measure in any conditions, self check, upgradable firmware to incorporate new features, standard interface to connect a personal personal computer, fully compliant with the requirement of coordinate measurement of military controls rules
The system is built in stainless steel to allow the use in firing range near the sea.

Man Machine interface : Personal computer connected via serial port / USB or, for long distance via WiFI, to display results and to program and configure data logger .

Main applications & tests:

- ✓ Shooting coordinate, speed (and related ballistics data;energy, momentum etc) on supersonic bullets
- ✓ Speed (and related ballistics data; energy, momentum etc) on subsonic bullets

- ✓ rate of fire for subsonic and supersonic ammunition

Active area may vary in function of bullet and sensitivity set. Typically is 2x2m for a small arms ammunition and arrive to approx 6 x6 m for medium gun ammo (like 30mm).
Accuracy is function of the caliber and weather condition, is normally 2mm for small arms and 4mm for medium gun
The system include a weather station for the data correction; reference signals can be generated via software. A complete set of control led is available to easy control of the system functionality and the input status.

Software: fully integrated with ours ballistics analysis software. Can be supplied with software driver only for the use with customer's legacy software.

Dimensions :
Foot print 4000x2000 mm 20kg approx, data unit 400x300x180 12kg .
Power: 150W max

SOACIx

Main characteristics and difference form SAAC2;:
The SOAC1x is the optical equivalent of the acoustic SAAC2. The SAAC2 is mainly intended for the use with big screen area and where portability is mandatory,. SAAC2 can be uses outdoor without any kind of protection, SOAC1x must be protected from rain snow and direct sunlight SOAC1 have a large footprint, a fixed sensitive area but is more accurate and can be use also for very small caliber like 4.5 gas pistol shot or to test Airsoft weapon.

Key Features: heavy duty, easy to use; stable and accurate measure, self check, upgradable firmware to incorporate new features, standard interface to connect a personal personal computer, fully compliant with the requirement of coordinate measurement of military controls rules. The system is built in steel and aluminum.

Man Machine interface : Personal computer connected via serial port / USB or, for long distance via WiFI, to display results and to program and to configure data logger .

Main applications & tests:

- ✓ Shooting Coordinates and Speed (and related ballistics data; energy, momentum etc) of any bullets
- ✓ rate of fire for subsonic and supersonic ammunition

Active area vary in function of the model starting form 500 x 500 mm to 2000 x 2000 bullet and sensitivity set.
Trigger can be set to read nose or base of the ammunition. SOAC1_2000 2000X2000 mm target is not intend for gas pistol and Airsoft testing.

Software: fully integrated with ours ballistics analysis software. Can be supplied with software driver only for the use with customer's legacy software.

Dimensions :

SOAC1_0500
dimension (without outdoor protection) 750 x 750 x1000 mm 30kg approx , power and data unit 200x200x100 10kg . Power 16W +15W. Accuracy(typical) ±1mm

SOAC1_1000
dimension (without outdoor protection) 1250 x 1250 x1500 (or 2250) mm 45kg (55kg) approx , power and data unit 200x200x100 10kg . Power 40W +15W Accuracy(typical) ±1mm

SOAC1_2000
dimension (without outdoor protection) 2250 x 2250 x2200 mm 80g approx , power and data unit 200x200x100 15kg . Power 100W +15W Accuracy(typical) ±2mm

Data Subject to change without notice

PAINI SISTEMI ITALCACCIA s.r.l.
Electronics & Systems division
43011 BUSSETO (PR) Italy Tel +39. 0524 332150

URL: www.paini-esd.it email: info1@paini-esd.it

quam ludus durus fuit
duri ludere incipiunt

Paini Sistemi
Electronics & Systems division