



Track armor moving pop-up target

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智能靶机制造商

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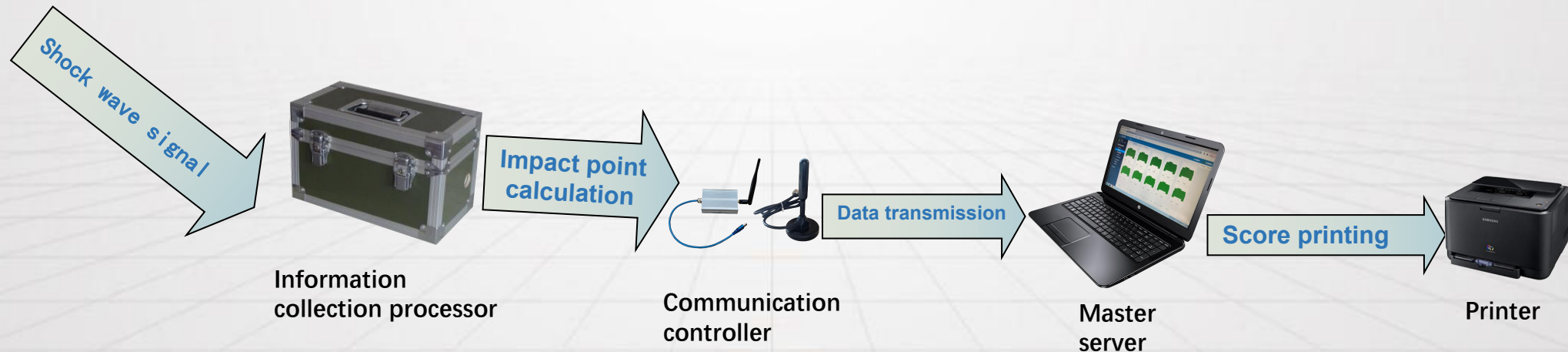


1. Working principle



Shock wave target reporting

The working principle is that when a supersonic projectile is fired at a target, a certain conical shock wave is generated due to the compression of the surrounding air by the high-speed projectile. The characteristic values of the shock wave are measured by sensors placed below the target, encoded by a data acquisition processor, and transmitted to the main control server through wired or wireless means. Finally, the impact point position is displayed on the monitor, and the target is reported in real-time through both voice and image methods.





2. System purpose



The track armor moving pop-up target is used to simulate the shape characteristics of hypothetical enemy armored vehicles or tanks (mainly used to simulate side moving targets), and to simulate maneuvering characteristics.

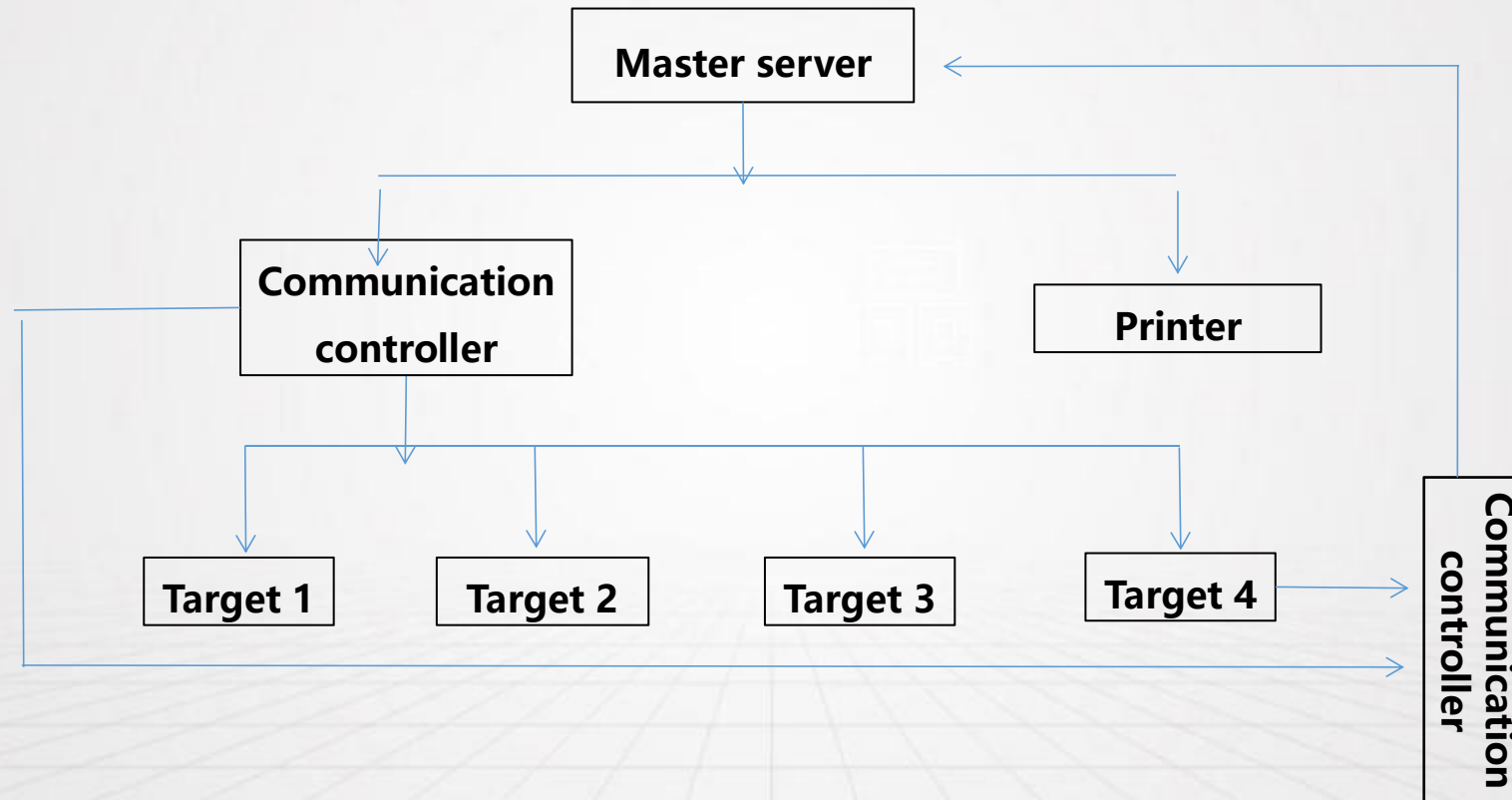
- ▶ Can be equipped with various types of coach shooting and combat shooting camouflage net target surfaces. By installing shock wave target devices, the hit data of ammunition with diameters below 130mm can be collected, achieving automatic target reporting function;
- ▶ It can be controlled remotely to achieve automatic movement and complete various comprehensive training for coach shooting or combat shooting.



● Track armor moving pop-up target



3. System composition





System composition



1. Track armor moving pop-up target

By analyzing the process of projectile incidence and utilizing the time difference to map the model onto the target position based on the spatial geometric relationship between the impact point and the sensor array, the position of the impact point can be calculated.



2. Master server

The main control server adopts a high-end laptop computer equipped with server management software, which facilitates the control, viewing, statistics, and query of shooting results of units or individuals.



3. Target remote control

The target is equipped with a remote control, which can control the forward, backward, stop and other actions of the target drone, and can control the movement of the moving target vehicle within a range of 1-1000 meters.



4. Communication controller

A high-power communication system can provide 900MHz wireless service, offering a cleaner wireless environment and more stable wireless access. Capable of accurately transmitting signals from the target drone and the main control server to the other party within a range of 1-3000 meters.



4. System function



Adjustable movement speed

The target vehicle's movement speed can be adjusted through software, with a maximum movement speed of 5m/s, which can adapt to different training scenarios.

Multiple mobile control methods

The target vehicle can be controlled through the upper computer software and the target machine remote control. The wheeled armored mobile target can be remotely controlled by remote control commands to complete forward, backward, and braking of the target vehicle; Complete automatic reciprocating motion based on the set starting and ending positions.

Target function

Space positioning technology for projectiles

The target analyzes the process of projectile incidence, uses time difference to map the model onto the target position based on the spatial geometric relationship between the impact point and the sensor array, and calculates the impact point position.

Suitable for multiple calibers

Suitable for shooting training with multi caliber weapons ranging from 12.7mm to 130mm. Provide mobile artillery targets for training or combat shooting of various types of armored vehicles.



5. Main tactical indicators



Serial Number	Item	Index
1	Applicable target surface	Can carry 5.0m * 2.0m (width * height) wooden target board and gauze target
2	Applicable weapons	Various types of large caliber weapons such as artillery and tanks
3	Applicable bullet diameter	5mm-130mm
4	Applicable bullet speed	100m/s~1500m/s
5	Applicable temperature	-30°C~+65°C
6	Maximum target carrying capacity	100kg
7	Maximum target carrying specification	5.0m*2.0m
8	Target accuracy rate	≥98%
9	Target accuracy error	≤10cm
10	Wireless control distance	1-3000m (through view)
11	Rainproof performance	1.7mm/min, 30min
12	Target response time	≤1s
13	Battery pack	48V72AH
14	Maximum movement speed	5m/S (adjustable speed)
15	Pop-up time	<1S



6 . C o m p l e t e c o n f i g u r a t i o n



Serial number	Component name	Quantity	Unit	Remark
1	Master server	1	Set	Including software
2	Communication controller	1	Set	
3	Armor moving pop-up target	1	Set	
4	Target remote control	1	Set	
5	Power supply battery pack	1	Set	48v72ah
6	High frequency suction cup antenna	1	PC	900MHZ
7	Target surface	1	Set	Camouflage net
8	Target rod	2	PC	Wooden
9	Target charger	1	Set	
10	Spare parts toolkit	1	Set	
11	Instruction manual	1	PC	
12	Certificate of conformity	1	PC	
13	Packing box	1	PC	Wooden box
14	Track	2	2 meters per section	



7. Product picture

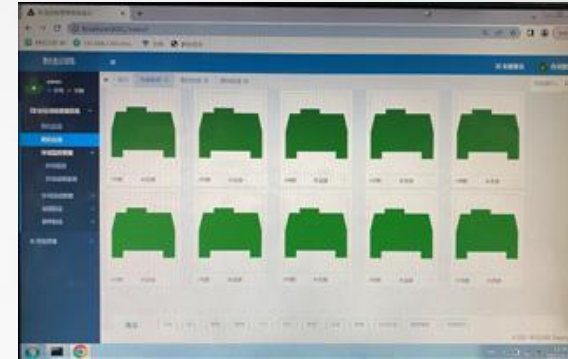


Physical
installation
diagram
of the
whole
target



Product
picture

System
software
control



Shooter
monitor



Communication
system





8. Application Cases



On site exercise diagram





Application Cases

