SHOOMS

DEVICE 08 / 08

TECHNICAL DOCUMENTATION

SHOOMS Core

Range base station

SHOOMS server | Range network | LAN | Wi-Fi 2.4 / 5 GHz

For the range owner and technician: what the base station consists of, where to install it, how to connect it, and what to do when the range devices lose their connection.



DOCUMENT	VERSION	SOFTWARE	DATE
DOC-BS-EN	1.0	1.0	09.2026

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DOC-BS-EN · V1.0

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CHECK THE CONTENTS BEFORE INSTALLATION

Check the contents immediately after unpacking. Report any missing or damaged item to your supplier before installation.

AT A GLANCE

1	IP20
Per range	Indoors only

COLOUR CODING

Warning
Important information that needs particular attention. Read it before you act.

Note
A clarification or useful additional information.

Tip
Useful recommendations.

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01 Overview and key specs

The base station is the heart of the SHOOMS system. Its mini-computer runs the control software that coordinates every device on the range: the release modules, the microphone modules, the terminals, the card readers and the media module. Together with the routers it creates the network these devices join.

1
Station per range

IP20
Technical room

Purpose

- Server: stores shooters, cards, series and results, and runs every series.
- Network: the main router and the outdoor access point connect every device on the range.
- Updates: through the customer's internet the station receives new software versions.

What it consists of



Fig. 1. The base station's mini-computer

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COMPONENT	PURPOSE
Mini-computer	SHOOMS server: runs the control software
Main router TP-Link Archer AX73	The range's main network, Wi-Fi 6
Outdoor access point TP-Link EAP225-Outdoor	Wi-Fi coverage across the range
LAN cable, 1 m	Connects the mini-computer to the router

THE STATION DOES NOT FACE THE SHOOTER

The base station has no screen for shooters and does not release targets itself. Its job is to make sure the other devices know what to do and can see each other.

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02 What's in the box

CHECK THE CONTENTS BEFORE INSTALLATION

Check the contents immediately after unpacking. Report any missing or damaged item to your supplier before installation.

QTY	ITEM
1	SHOOMS mini-computer with a power unit for 230 V mains
1	TP-Link Archer AX73 router with its standard power supply
1	TP-Link EAP225-Outdoor access point with its standard power supply
1	LAN cable, 1 m

THE ROUTERS ARE STANDARD PRODUCTS

The router and the access point are standard TP-Link products with their own instructions and conformity documents. This manual describes only their role in the SHOOMS system.

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03 Safety and warranty

ONLY SHOOMS STAFF OPEN AN ENCLOSURE

Removing a lid and doing anything inside the enclosure of any device in the system is for authorised SHOOMS personnel only. The customer and third parties must not open an enclosure, press buttons on the board, move any parts, or unplug connectors or cables inside it. Interfering voids the warranty and can damage the database of shooters and results or take the range network down.

General rules

- The mini-computer and the main router are installed only in a dry, enclosed room: ingress protection IP20.
- Do not block the mini-computer's ventilation openings or put it in a closed cabinet without ventilation.
- Use only the supplied power units.
- Do not put drinks on the equipment or place it near sources of heat.
- Route the cables where they cannot be caught or pulled out.

Warranty

The warranty period is 12 months from the date the base station is put into service. It does not cover damage from moisture, overheating through blocked ventilation, lightning, overvoltage on the supply, or mechanical tampering with the enclosure.

For a warranty claim provide: the serial number, a description of the fault and, if possible, a photo.

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04 Installation

Choosing the position

- The mini-computer and the main router go in the range's technical room: dry, ventilated, with sockets nearby.
- Place the main router as close as possible to the centre of the area it must cover, and do not hide it in a metal cabinet.
- Mount the outdoor access point on a wall or a mast so that it “sees” the shooting areas.

Mounting steps

1. Install the mini-computer and the main router in the technical room.
2. Connect the mini-computer to the router with the supplied LAN cable.
3. Mount the outdoor access point and connect it to the router with a cable.
4. Connect the router to the customer's internet — for updates and remote support.
5. Switch on the router and the access point, then the mini-computer with its power button.
6. The network settings and the binding of devices to shooting areas are done by SHOOMS support.

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NETWORK FIRST, THEN THE SERVER

Switch on the router and the access point first, and the mini-computer once the network is up. Switch on the range devices last.

UNINTERRUPTIBLE POWER SUPPLY

If the site has power cuts, put the base station on a UPS — the mini-computer and the main router. It keeps them running for a few minutes through a short outage and lets the server shut down properly instead of losing power outright.

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05 Connection



Fig. 2. Connectors on the rear panel of the mini-computer

CONNECTOR	WHAT IS CONNECTED
Power	The supplied power unit from 230 V mains
LAN	The cable to the main router
HDMI, USB	A monitor and keyboard — for service only
Power button	On the front panel

NETWORK

The server connects to the router by cable. Range devices join the network by cable or through the access point's Wi-Fi.

LAN

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Internet

Daily operation needs no internet: the whole system works on the range's local network. The internet is needed only for updates and remote support — through the customer's wired connection.

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06 Daily operation

The base station works without anyone's attention. During the season it is not switched off: it must be on for the terminals, target release and the scoreboard to work.

Switching on

1. Switch on the router and the outdoor access point.
2. Switch on the mini-computer with its power button and wait a few minutes for the software to start.
3. Power up the range devices.

Switching off

If the station has to be switched off, first power down the range devices, then switch off the mini-computer with its power button — a short press, so it shuts itself down — and only then the routers.

DO NOT SWITCH THE SERVER OFF AT THE MAINS

The mini-computer holds the database of shooters and results. A sudden power cut while it is running can damage it. Switch it off with its power button and wait until it goes dark.

BACKUPS ARE AUTOMATIC

Backups of the database of shooters, cards and results are made automatically by the SHOOMS service. The customer does not need to do anything.

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07 Indication

The station has no SHOOMS signals of its own. Its state is shown by the indicators of the devices themselves:

DEVICE	WHAT TO LOOK AT
Mini-computer	The power indicator on the front panel: lit — the computer is on
Router and access point	The power, internet and Wi-Fi indicators — see the TP-Link instructions
The whole system	The best indicator is a terminal: if it shows the board without the «No connection» message, the server is working

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08 Troubleshooting

SYMPTOM	LIKELY CAUSE	FIX
«No connection» on every terminal	The server is off or has not started	Check the mini-computer's indicator and power; switch it on and wait a few minutes.
No device on the range works	No network: the router is off	Check the router's power and indicators.
Only one device does not work	A problem with that device or its connection	See that device's manual; check the Wi-Fi coverage where it is installed.
Devices at the edge of the range drop out	Weak Wi-Fi coverage	Check the outdoor access point and its cable.
Updates do not arrive	No internet	Check the router's connection to the customer's internet.

WHAT TO TELL SUPPORT

Whether the mini-computer's and the router's indicators are lit, what exactly the terminals show, when the power was last switched off, and whether anything changed in the network.

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09 Maintenance and cleaning

INTERVAL	TASK
Monthly	Check that the mini-computer's ventilation openings are not blocked or dusty.
Each season	Wipe the equipment with a dry cloth; check the cables and connectors.
Each season	Inspect the mounting of the outdoor access point and its cable.
Before winter	If the range is idle for over 2 months, switch the station off with its power button, then the routers.

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10 Technical specifications

PARAMETER	VALUE
MINI-COMPUTER	
Dimensions	115 × 108 × 44 mm
Weight	about 0.5 kg
CONNECTIVITY	
Wired network	Ethernet RJ-45
Wireless	Wi-Fi 2.4 / 5 GHz, Bluetooth 5.2
NETWORK EQUIPMENT	
Main router	TP-Link Archer AX73, Wi-Fi 6
Outdoor access point	TP-Link EAP225-Outdoor
POWER	
Mains	230 V AC
Mini-computer	From 230 V mains through the supplied power unit
Network equipment	Standard power supplies
ENVIRONMENT	
Ingress protection	IP20 — mini-computer and router; outdoor access point — per the TP-Link documentation
Placement	Enclosed technical room, fixed installation
Quantity	1 per range
Operating temperature	–20 … +50 °C

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11 Software and changelog

The software version is shown on the cover. Updates are performed by SHOOMS support over the internet. There is no self-service update by the customer.

VERSION	DATE	CHANGES
1.0	09.2026	First release within the SHOOMS system.

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APPENDIX A

A Appendix: SHOOMS device family

Every SHOOMS device has its own manual in the same structure.

1 · DOC-MM

Media module

Media module: TV and sound

2 · DOC-RB

Release module

Target release module

3 · DOC-MC

Microphone

Microphone module

4 · DOC-RF

Card reader

Shooter card reader

5 · DOC-TR

Terminal

Self-service terminal

6 · DOC-WR

Wireless receiver

Wireless release receiver

7 · DOC-WT

Transmitter

Wireless release transmitter

8 · DOC-BS

Base station

Range server and network

This document

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