

ANTI-ROBBERY SECURITY SYSTEM

FS-P600R

Security Fog Generator

User Manual

Please read these instructions carefully and keep this manual for future reference.



Wireless RF Remote • Up to 600 m³ Coverage • Cold-Smoke Deployment

Contents

1. SAFETY WARNINGS	1
2. WHAT’S IN THE BOX	2
3. PRODUCT OVERVIEW	2
4. DEVICE LAYOUT & CONNECTIONS	3
5. SPECIFICATIONS	4
6. INSTALLATION & OPERATION	5
7. RF REMOTE CONTROL INSTRUCTIONS	7
8. TESTING & REPLACING CANISTERS	8
9. Technical Support and Document Revision	错误！未定义书签。

1. SAFETY WARNINGS

The FS-P600R rapidly deploys a dense smoke to block visibility, disrupt intruders, and provide valuable response time for security personnel.



Failure to follow these instructions may result in injury or property damage.

1) Health & Aiming Precautions

- Use with caution near persons suffering from asthma, respiratory diseases, or skin allergies.
- Never aim the smoke outlet directly at people.
- The nozzle must always be directed toward the floor.

2) Exposure & First Aid

- Keep out of reach of children and pets.
- Avoid prolonged exposure to the smoke, as inhalation may cause discomfort.
- If skin or eye irritation occurs:
Wash immediately with soap and water.
Seek medical attention if symptoms persist.

3) Installation & Electrical Safety

- Disconnect power before installation or canister replacement.
- Keep away from flammable and explosive materials.
- Installation should be performed by qualified personnel.

4) Environmental Requirements

- Indoor use only. Keep dry and clean. Do not expose to excessive heat.
- If liquid enters the device:
Disconnect power immediately.
Contact after-sales support.

5) Burn Hazard



The nozzle becomes extremely hot after deployment.

- Do not touch until fully cooled.
- Contact may cause serious burns.

6) Restriction of Use

This device is not suitable for installation inside vehicles such as cars, vans, Trucks etc.

7) Liability Disclaimer

The manufacturer accepts no liability for damage or injury caused by incorrect installation, improper operation, use of non-original canisters.

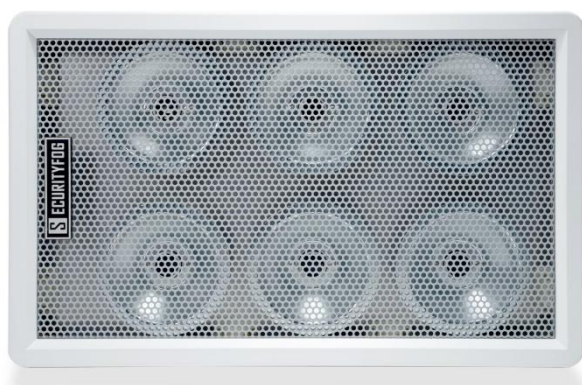
2. WHAT'S IN THE BOX

Carefully unpack the carton and confirm that all of the following items are present. If anything is missing or damaged, contact your supplier before installation.

Item	Quantity
Security Fog Generator (Main Unit)	×1
Power Adapter (12V/10A)	×1
RF Remote Control (Pre-paired)	×1
Mounting Plate & Screw Set (Wall/Ceiling fixings)	×1
Disposable Metal Mesh Cover (Single-use)	×2
User Manual (This document)	×1



Disposable metal mesh cover (×2) — Suggest replacing it after each deployment.



Assembled FS-P600R unit (top view) showing the six-emitter smoke outlet.

3. PRODUCT OVERVIEW

➤ Description

The FS-P600R Security Fog Generator is designed to protect high-value locations such as large warehouses, jewelry stores, luxury retail stores, supermarket cash counters, and

ATMs, covering enclosed spaces of up to 600 m³.

➤ Key Features

Instant Visual Deterrent: Deploys a dense, zero-visibility smoke within seconds of activation to completely blind and disorient intruders.

Large Coverage Area: Engineered to protect large indoor volumes of up to 600 m³ with a single deployment.

Flexible Integration: Connects seamlessly with existing alarm systems, relay outputs, or the included RF remote control for instant wireless activation.

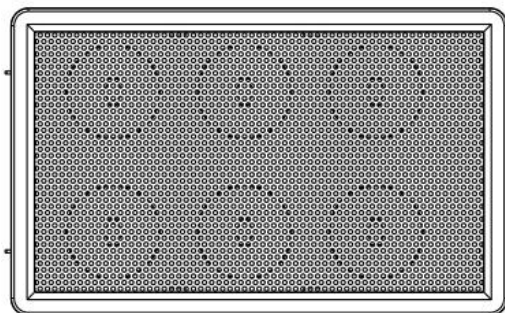
Compact and Discreet Design: A sleek, low-profile design allows discreet installation above cash counters, inside ATMs, or near high-value safes.

Cost-Effective & Refillable: A sustainable solution with an easily replaceable smoke canister after each deployment.

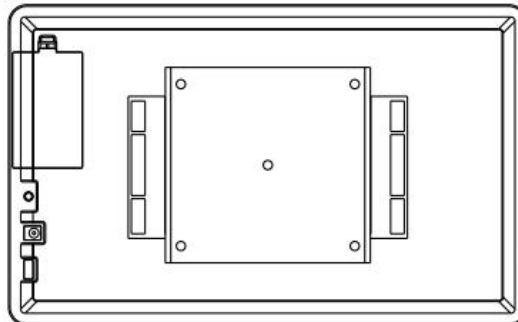
4. DEVICE LAYOUT & CONNECTIONS

The unit features a modular rear panel with clearly labeled terminals.

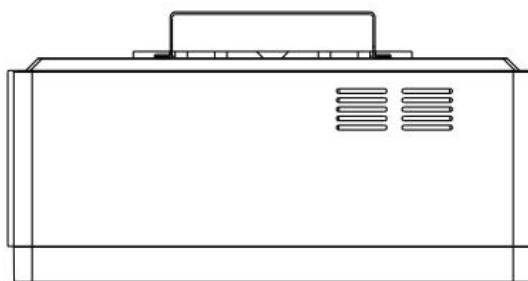
Front View



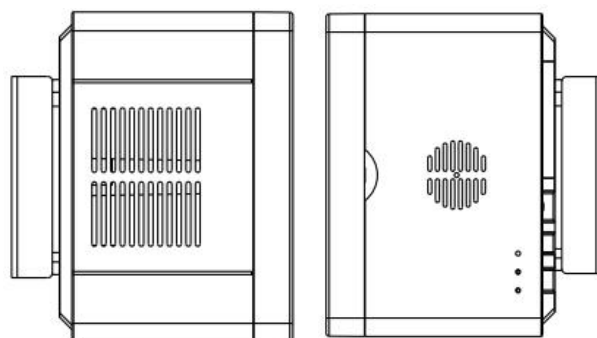
Rear View



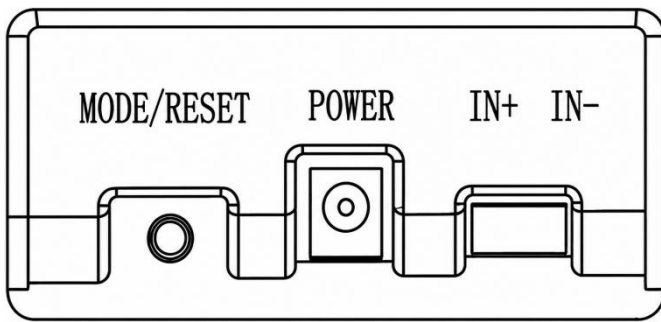
Top View



Side View



Connection Interface



Rear connection panel: *MODE / RESET, POWER, and IN+ / IN- signal terminals.*

Terminal	Function
MODE/RESET	MODE-each press advances to the next coverage level. RESET-press and hold 5 seconds to enter remote-pairing mode or reset the used-canister(the remote's Used Qty) counter to zero.
POWER	12V/10A DC input
External Control (4 pins: VCC 3.3V / IN+ / IN- / GND)	VCC 3.3V & GND: Provides stable power for external signal inputs. IN+ / IN-: Alarm/Panic Button Input

Coverage Levels

Press MODE to cycle through three coverage levels. The status LED color confirms the active level:

LEVEL	LED COLOR	CANISTERS	COVERAGE/DEPLOYMENT	TOTAL COVERAGE & DEPLOYMENT
Level 1	● Blue	2 canisters	Up to 200 m ³	600m ³ (3 activations)
Level 2	● Green	4 canisters	Up to 400 m ³	600m ³ , (2 activations)
Level 3	● Red	6 canisters	Up to 600 m ³	600m ³ , (1 activation)

5. SPECIFICATIONS

Model: FS-P600R	
Trigger Methods	RF Remote Control, Panic Button, Alarm Relay.
Operation	Single ejection per canister — refill with new canisters after deployment
Fog Type	Solid, Non-toxic Smoke.

Model: FS-P600R	
Coverage	200-600m ³ (install height: 2.5-3 meters).
Deployment Speed	Smoke is released within 1 second, critical area protected within 3 seconds.
Power supply	DC 12V/10A
Power Consumption	0-120W
Back up Battery	Compatible with 2x LG/SAMSUNG 21700 cells-up to 48 hours after main power loss.
Remote Control Battery	2xAA batteries.
Alarm	120 dB buzzer
Working Temperature	-10°C ~ 50°C
Working Humidity	0 ~ 60%
Installation Method	Wall/Ceiling mount
Smoke Duration	30~45 minutes
Device Dimension & Weight	340*210*155mm(L*W*H), 7.5KG.
Certifications	CE, FCC, RoHS, REACH, Non-toxic Report

6. INSTALLATION & OPERATION

➤ Pre-Installation Checklist

- ✓ Install at a height of 2.5–3 meters for optimal smoke performance.
- ✓ Securely mount the unit on its supporting bracket before connecting to the control switch.
- ✓ Keep power off and the control switch OFF until installation and debugging are fully complete.
- ✓ After activation, avoid touching the nozzle—they may cause severe burns.
- ✓ Before replacing canisters, confirm the device is functioning correctly to avoid false trigger.

➤ Mounting & Wiring

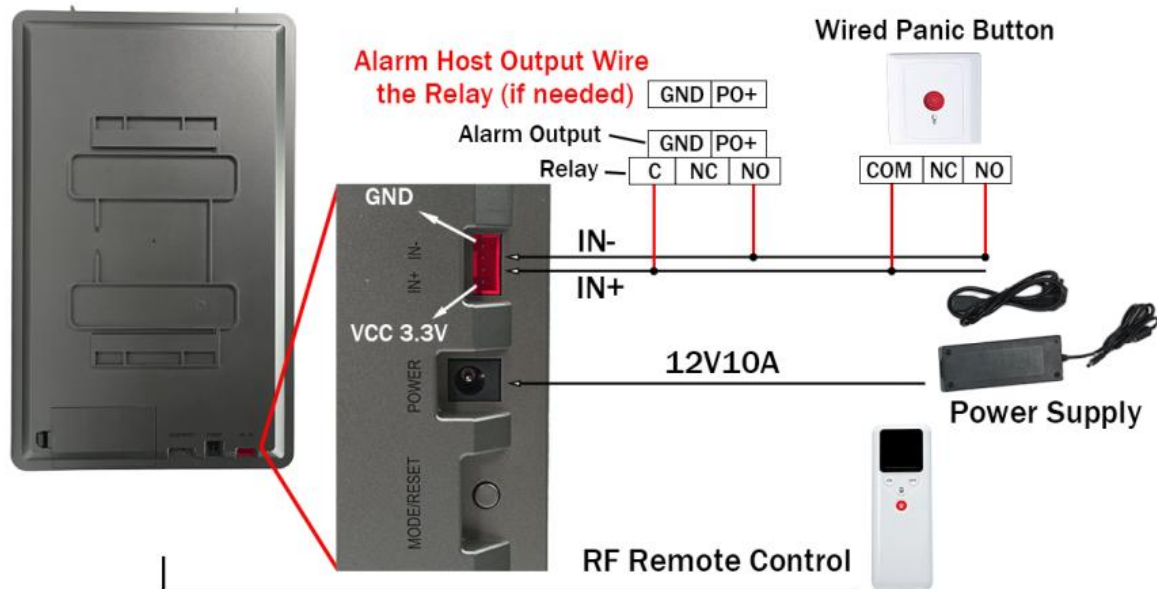
Step 1. Mount the device horizontally in the target area, ensure the smoke outlet remains unobstructed.

Step 2. Connect the device to the power supply and to the alarm system/panic button(see below

wiring diagram) or remote control. Route wires away from high-temperature or humid environments.

Step 3. Select the required coverage level (Level 1 – 3) based on the size of the space.

RF Remote Control & Panic Button Control



Wiring overview: IN+ / IN- signal terminals, alarm-relay output, wired panic button, and 12 V / 10 A power supply.

➤ Smoke Activation

Manual Trigger— activate the smoke using the wired panic button (then use the key included in the package to reset the switch for the next use) or the RF remote control:

- 1) Press and hold the Unlock button on the RF remote, then press and hold ON button. Voice alerts switch on and the selected level of canisters is activated.
- 2) To trigger again, press and hold ON once more. User can trigger up to two additional times.

Alternatively, press and hold  button directly to release all available canisters. The remote display shows: "All smoke canisters are deployed. Please replace them promptly!")



3) Press and hold OFF to turn off the voice alerts.

Automatic Trigger—when connected to an alarm system, the device releases smoke automatically upon receiving an alarm signal.

AFTER DEPLOYMENT

When all canisters have been triggered, press and hold **RESET** until all three indicator lights are on. This confirms that the unit has been reset and is in pairing mode. If the remote is already paired, no further pairing is needed. The used-canister count will update on the remote. After 1 minute, the unit will return to normal mode, with the selected mode indicator on.

7. RF REMOTE CONTROL INSTRUCTIONS



➤ Button Functions

Button	Function
ON	Activate selected level
OFF	Disable voice alerts
Unlock	Unlock keypad
Trigger	Release all canisters

➤ Display Information (Automatically locks after 30 seconds of inactivity and turns off the screen after 3 minutes.)

Top row: model number, lock/unlock status, and remote battery level.

Middle Row

Trig Qty: Coverage level selection: 2, 4, or 6 canisters per activation.

Used Qty: Indicates the number of canisters already triggered. The display shows 6 when all canisters have been used.

Bottom Row

Total Qty: Total 6 canisters installed.

Dev Batt: Backup battery level.

Status Update Delay

After an operation, the screen status is updated with an approximate 10-second delay.

➤ Remote Pairing and Unpairing

The device is pre-paired with a remote control. Simply power on the device and it is ready for immediate use. Follow the steps below only if you need to re-pair.

To pair a remote

- Power on the device and unlock the remote control.
- Press and hold the MODE/RESET button on device for 5 seconds to enter pairing mode (three LEDs flash).
- Firstly Press and hold OFF then hold ON together. A beep sound and on-screen notification confirm that pairing succeeded.

To unpair

Press and hold Unlock and OFF together. (⚠ Remote must be paired again before use.)

8. TESTING & REPLACING CANISTERS

Before replacing any smoke canisters, perform a functional test to verify that the device is operating correctly and to minimize the risk of false triggering after maintenance.

➤ Safety & Emergency Instructions

USE RESPONSIBLY

Operate this device only during genuine security emergencies or authorized maintenance tests.

Never activate the smoke function under non-critical conditions.

Before conducting any smoke performance test:

- Ensure all personnel on site are informed of the test and remain at a safe distance from the device.
- Do not disassemble, modify, or tamper with the smoke canisters.
- The generated smoke may cause discomfort to individuals with respiratory sensitivities. After any smoke deployment, ventilate the area thoroughly and evacuate personnel if necessary.

- The device uses a solid smoke agent and requires no routine servicing. Keep the unit in a clean, dry environment and protect it from moisture.

➤ **Functional Test Procedure**

Step 1 – Enter Test Mode

1. Press and hold the **MODE/RESET** button on the device.
2. While holding the button, connect the power supply.
3. Release the button after power-up.

All three LED indicators will begin flashing, indicating that the device has entered **Test Mode**.

Step 2 – Verify Device Outputs

1. Press and hold the **ON** button on the RF remote control.
2. Confirm the following functions operate normally:

the buzzer sounds; The cooling fan starts running; All six canister output ports are energized.

Using a multimeter, measure the voltage at each canister output terminal:

Output Status	Expected Voltage
Activated (ON)	Approximately 12 VDC
Standby (OFF)	Approximately 0 VDC

3. Press and Hold the **OFF** button to stop the buzzer, fan and output signals.

The device will automatically exit Test Mode after approximately 1 minute and return to normal operation.

➤ **Smoke Canister Replacement Procedure**

1. Confirm the device and nozzle have completely cooled and disconnect the power supply.
2. Perform the Functional Test described above to confirm that the control board, buzzer, fan, and canister output circuits are operating correctly.
3. Remove the used canisters and the used metal mesh cover.
4. Install new original canisters and a fresh disposable mesh cover.
5. Restore power, then press and hold **RESET** until all three indicators are on to clear the

used-canister counter.

The used-canister counter will be cleared and the device will return to normal operation after 1minute.

 USE ORIGINAL PARTS ONLY

Replace smoke canisters only with manufacturer-approved parts. The use of non-original canisters may: reduce deployment performance, cause malfunction or unreliable operation, void the product warranty and etc.

9. Technical Support and Document Revision

For technical support or after-sales service, please contact your local distributor or the manufacturer.

The manufacturer reserves the right to update this manual without prior notice.

FS-P600R User Manual

Version: V1.0