



**INSTALLATION
INSTRUCTIONS
&
USER MANUAL
AT87 SERIES**

AT87001
AT87002
AT87003
COAX MODULES

CCTV PROTECTION SYSTEM

Adhering to these instructions guarantees maximum performance of this Protection Device.

IMPORTANT SAFETY INSTRUCTIONS CAUTION:

1. Never install CCTV wiring during a lightning storm.
2. This product is intended for INDOOR USE ONLY.
3. **Risk of Electric Shock** - Protector is not to be used if physically damaged.

1. INSTALLATION

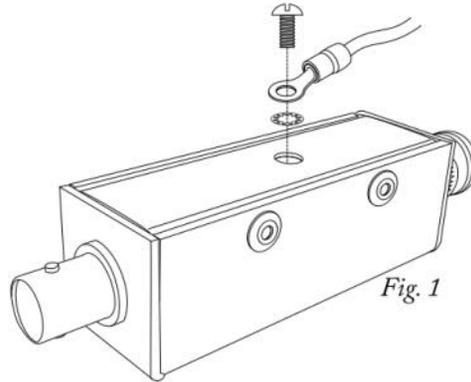
1.1 Read and understand all instructions.

1.2 The AT87 modules can be installed individually, grounding the unit using the grounding screw installed into the grounding hole. AT87 modules can also be installed on a DIN Rail and other rack or surface mount frames, including AT87 2-in-1 and 3-in-1 models.

In planning an installation, location of the AT87 unit in close proximity to the correct ground point is essential for protection performance. The correct ground point is defined as the ground reference used by the system to be protected. In most applications, this is AC power ground. The distance between the AT87 unit and the identified ground point should be minimized as much as possible.

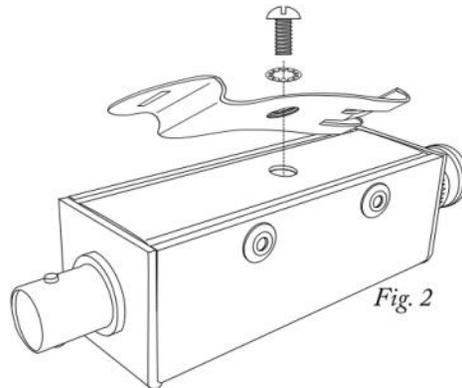
2. STAND-ALONE INSTALLATION

2.1 To install the AT87 module as a stand-alone unit, attach a minimum #14 AWG ground wire with the supplied ring terminal to the grounding screw (see figure 1). The metallic grounding screw is the unit's Earth connection.

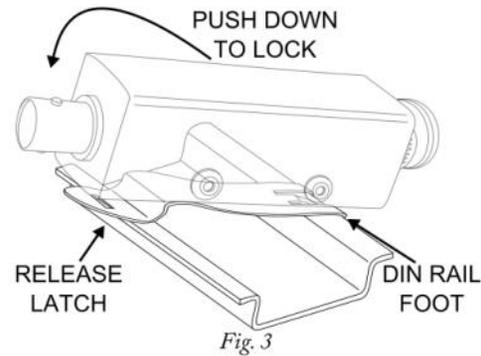


3. MOUNTING AND GROUNDING ON A DIN RAIL

3.1 To install an AT87 surge protector on a DIN rail, install a DIN rail clip using the grounding screw (see figure 2).



3.2 Once installed, place the DIN rail clip foot over the DIN rail and securely push the metallic clip onto the DIN Rail. Rotate downward and push the AT87 module onto the DIN rail until the latch snaps on to the rail (see figure 3).



3.3 The surge protector is now securely grounded to the DIN rail. An existing or customer-supplied DIN rail can be used, providing the rail is securely connected to the correct ground (see grounding section). To remove a module, gently lift the release latch and rotate the AT87 upward off of the DIN rail.

3.4 The 19" DIN rail assembly can be mounted onto any surface using the two mounting holes. The 19" DIN rail assembly will hold up to 16 surge protectors. Use the same DIN rail assembly for 19" rack mounting. *NOTE: The DIN rail must be grounded. See grounding section.*

3.5 Any combination of AT87 modules can be employed as required, including Cat 6, coax, PTZ, AC and DC modules.

3.6 Connect the incoming line to the port marked "LINE" on the AT87 module. Run cable from the AT87 port marked "EQUIP" to the equipment meant to be protected.

3.7 Connect a green ground wire from the DIN rail or from the AT87 module to the identified grounding point (see grounding section). Multiple module installations require a minimum #10 AWG ground wire; single modules require a minimum #14 AWG grounding wire.

3.8 **CAUTION:** The current-limiting features of CCTV surge protectors could be rendered inoperable if improperly installed or not properly grounded.

GROUNDING

The DIN rail must be connected to the ground reference used by the system being protected. In a headend environment, this grounding point may be the ground bar in the AC power panel. Ground leads longer than 12" are not suggested.

INDEPENDENT GROUNDS

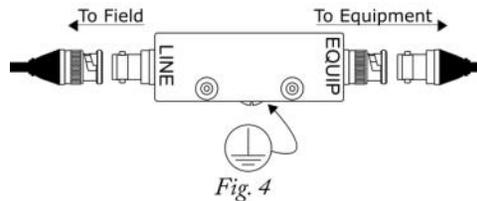
Surge protection devices must not be connected to independently derived grounds.

WARNING

The grounding lead must be as short as is practically possible. Minimize length to the inch. The ground wire should be a minimum #14 AWG for single-camera installations and #10 AWG for multi-camera installations.

WIRING INSTRUCTIONS

All AT87 coax modules are clearly labeled with one end marked "EQUIP" and one end marked "LINE." Connect field cables to the unprotected "LINE" side. Connect cables from equipment to be protected to the end marked "EQUIP" (*see figure 4*). Ground wires should be attached to the grounding screw or the DIN rail to which the AT87 modules are grounded.



SAVE THESE INSTRUCTIONS

A copy of these instructions can be located online at:

www.atssurge.com/cctv/support.html

Or scan the QR Code below for a direct link.



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