



MODEL TS1810

## AV ADVANCED POWERSTRIP+

Tier 2 APS with premium-quality surge protection that reduces active and standby energy wasted by home entertainment center electronics

### OVERVIEW

The AV Advanced PowerStrip+ (AV APS+) reduces active and standby power loss in audio visual (AV) home entertainment centers by detecting when the TV and AV peripheral electronics are not being used and turns them off.

Through advanced power measurement and patented auto-threshold detection technology, the AV APS+ is compatible with all types of TVs. It features a highly-accurate sensor that detects infrared (IR) remote control activity and motion to determine whether the TV is being used. If no IR remote control activity or motion is detected within the countdown timer period, the AV APS+ powers down the TV and peripheral AV electronics plugged into the switched outlets.

### KEY FEATURES

- 7 outlets:
  - 5 always-on outlets (1 transformer-spaced outlet)
  - 2 switched outlets (1 transformer-spaced outlet)
- Resettable circuit breaker
- 1,080 Joules of surge protection at 500 VPR
- Ceramic-encased, fireproof surge protection
- Auto-threshold detection with RMS power measurement
- Consumes <1 Watt at all times
- Power switching electromechanical relays rated for 100,000 switching cycles at a full 15 amp load
- Software and hardware filtering technology filters out IR interference from non-AV equipment
- Optically-isolated RJ11 input
- LED status indication (ground, surge status, switched)
- <40 dB noise filtering
- 4 ft. heavy-duty cord with angled, space-saver plug
- Supports high-level Consumer Electronic Control (CEC) commands via optional TAV-Link™ cable (sold separately) that connects from the Multi-sensor to an HDMI port on the TV

### FIREPROOF SURGE PROTECTION

Traditional surge suppression products use standard Metal Oxide Varistor (MOV) components. TrickleStar's AV APS+ incorporates advanced surge protection technology with ceramic-encased MOVs capable of suppressing more energy and dissipating heat faster than traditional MOVs.

Ceramic-encased MOVs have better thermal properties and have a lifespan up to three times longer than standard MOVs. The ceramic casing is fireproof and therefore capable of preventing fire during abnormal surge conditions.

### EMI/RFI NOISE FILTERING

TrickleStar APS products include advanced noise filtering circuitry that reduces electromagnetic interference (EMI) and radio frequency interference (RFI), delivering cleaner power and improved video and sound quality.

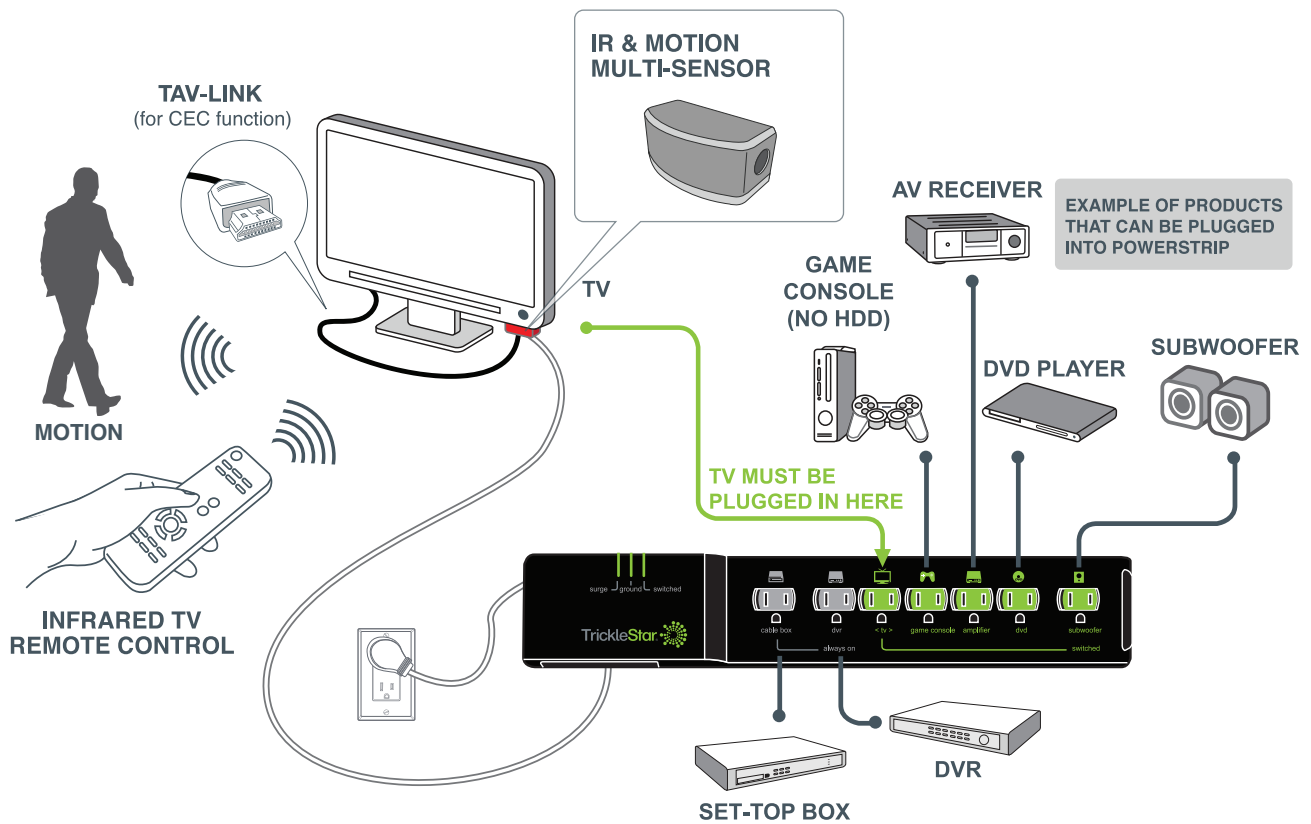
### TAV-LINK™ MULTI-SENSOR

The TAV-Link Multi-sensor detects IR remote control signals and motion. It features an intelligent logic algorithm that first considers IR remote signals and then looks for both IR remote signals and motion if no IR commands are detected.

Additional features include:

- LED notification that flashes when IR activity or motion is detected
- Continuous dual-color (red/blue) flashing LED alert notification that activates ten minutes prior to shutdown
- Optional soft-chirping piezo buzzer that alerts user of a pending shutdown ten minutes and three minutes prior to shutdown
- Manual on/off button
- Supports high-level CEC commands via optional TAV-Link cable that allow "smart" TVs to safely store their data and settings prior to powering down
- TAV-Link functionality that allows gaming consoles to enter an energy-saving mode earlier and without any corruption of data

## APPLICATION DIAGRAM



## APS+ ELECTRICAL SPECIFICATIONS

### FOR INDOOR USE

<b>Voltage</b>	120 VAC +/- 10%, 60 Hz
<b>Power Rating</b>	15 A
<b>Surge Protection</b>	72,000 Amps/1,080 Joules
<b>Noise Filtering</b>	<40 dB
<b>Standby Power Consumption</b>	<1 Watt
<b>Voltage Protection Rating</b>	500 Volts L-N 500 Volts L-G 500 Volts N-G

## PHYSICAL SPECIFICATIONS

<b>Operating Temperature</b>	32° to 113° F
<b>Storage Temperature</b>	14° to 140° F
<b>Humidity</b>	5 to 90% N/C
<b>IP Rating</b>	IP20

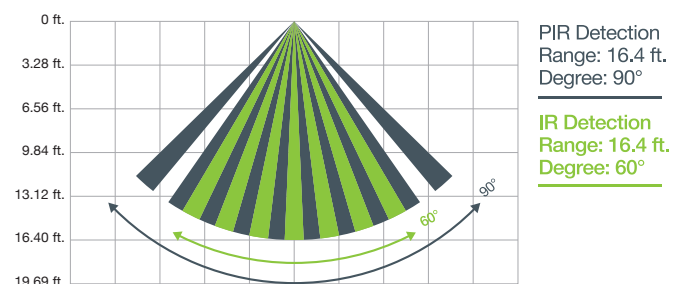
## SENSOR ELECTRICAL SPECIFICATIONS

### FOR INDOOR USE

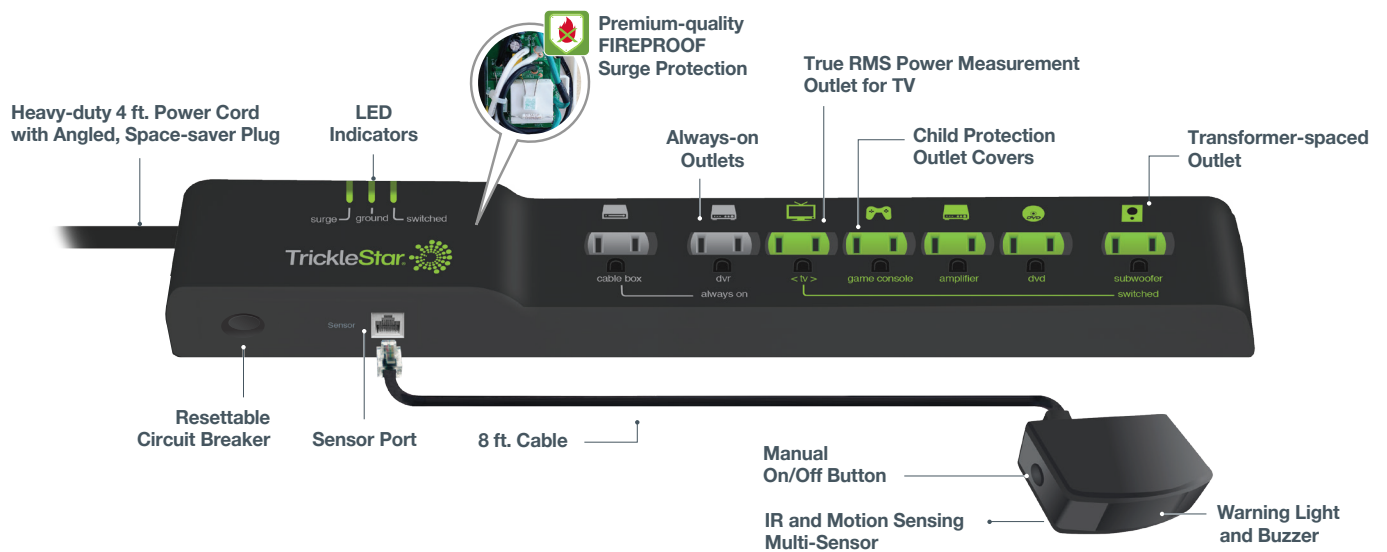
<b>Voltage</b>	3.3 V
<b>IR Detection Range</b>	Up to 16.4 ft.
<b>IR Detection Angle</b>	60°
<b>Cord Length</b>	8 ft.
<b>Movement Detection Range</b>	Up to 16.4 ft.
<b>Movement Detection Angle</b>	90°

## PIR & IR DETECTION PATTERN

### SENSOR OPTICAL VIEW PATTERN



## FEATURE DIAGRAM



## PRODUCT WARRANTY

This product is backed by TrickleStar's Lifetime Product and Connected Equipment Warranties:

- 10-year Lifetime Product Warranty
- \$20,000 Connected Equipment Warranty

## APPROVALS

Conformity to product standards for safety and EMC.

2002/95/EG (RoHs), 2002/96/EC (WEEE), 1999/5/EC (RTTE)

Solid-State Controls for Appliance, UL 244A & CSA C22.2 No. 14-10

Relocatable Power Taps, UL 1363

Standard for Surge Protective Devices, UL 1449



## ORDER INFORMATION

**TS1810**

7-outlet AV Advanced PowerStrip+  
TAV-Link Multi-Sensor

Patents Pending & Patents  
9,665,073  
7,193,3350

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