



## TS1810 TIER 2 AV ADVANCED POWERSTRIP+

Reduces active and standby power wasted by TV and home theater setups while providing premium fireproof surge protection

### OVERVIEW

The AV Advanced PowerStrip+ (AV APS+) reduces active and standby power loss in home entertainment setups by detecting when the TV and related electronics are not being used and turning them off.

Through advanced power measurement and patented auto-threshold detection technology, the AV APS+ is compatible with all types of TVs. It works with a multi-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 during the countdown period, the AV APS+ turns off the TV and any electronics plugged into the switched outlets.

### KEY FEATURES

- 7 outlets:
  - 2 always-on (1 transformer-spaced)
  - 5 switched (1 transformer-spaced)
- Resettable circuit breaker
- 1,080 Joules of surge protection at 500 VPR
- Consumes <1W 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 indicators (ground, surge, switched)
- <40 dB noise filtering
- 4 ft. heavy-duty cord with space-saving, angled plug
- Supports high-level Consumer Electronic Control (CEC) commands via optional TAV-Link™ cable (sold separately) allowing connected devices to safely store their data and settings prior to powering down)

### PREMIUM FIREPROOF SURGE PROTECTION

Traditional surge suppression products use standard Metal Oxide Varistors (MOVs). TrickleStar's AV APS+ incorporates a ceramic-encased MOV that suppresses more energy and dissipates heat faster than traditional surge protection products. This makes the AV APS+ fireproof during most surges.

The AV APS+ has a best-in-class Voltage Protection Rating (VPR), superior mechanical properties, and a lifespan up to three times longer than standard surge protectors, providing the highest degree of protection available.

### PRODUCT WARRANTIES

- 10-year Product Warranty
- \$100,000 Connected Equipment Warranty

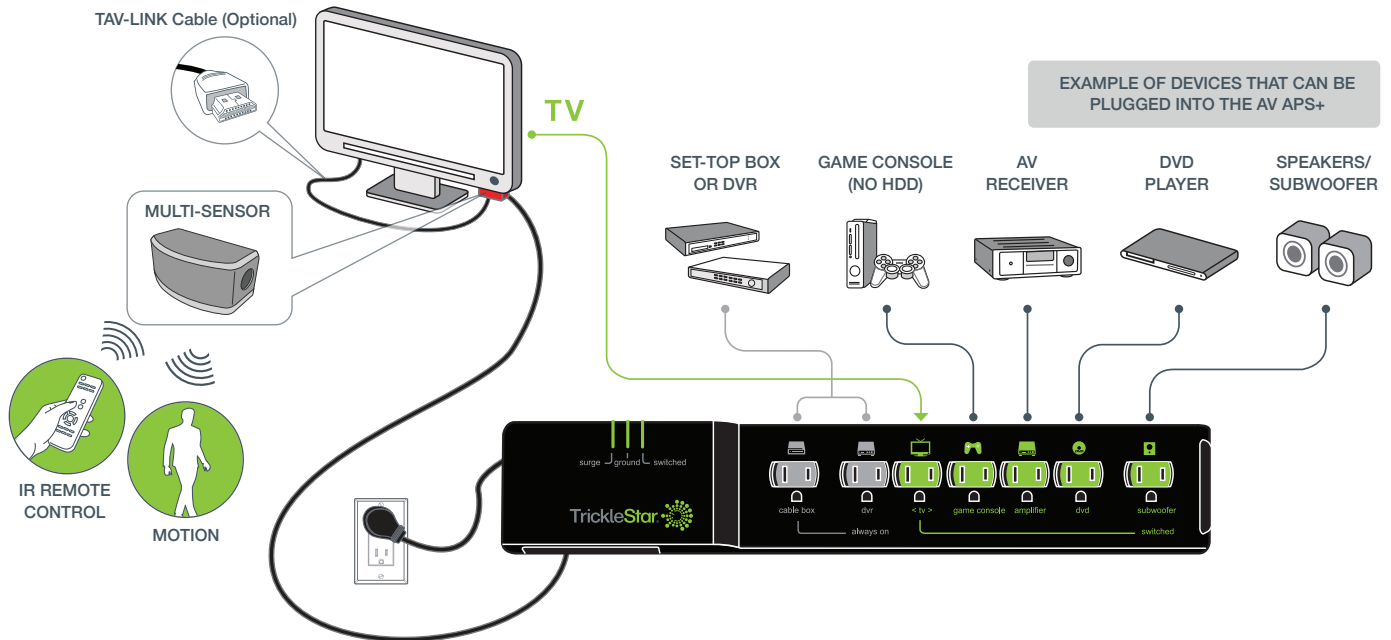
### MULTI-SENSOR

The multi-sensor detects IR remote control signals and motion. With an intelligent algorithm, it spends the first half of the countdown period looking for IR remote activity. If no remote activity is detected, it then looks for both IR remote activity and motion.

Additional features of the multi-sensor include the following:

- Dual-color LED flashes red/blue when IR activity or motion is detected
- LED flashes ten minutes and three minutes prior to a shutdown
- A soft-chirp buzzer sounds ten minutes and three minutes prior to a shutdown
- Manual on/off button

## SETUP GUIDE



## AV APS+ ELECTRICAL SPECIFICATIONS

### FOR INDOOR USE ONLY

<b>Voltage</b>	120 VAC +/- 10%, 60 Hz
<b>Power Rating</b>	15 Amps
<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

## MULTI-SENSOR SPECIFICATIONS

### FOR INDOOR USE ONLY

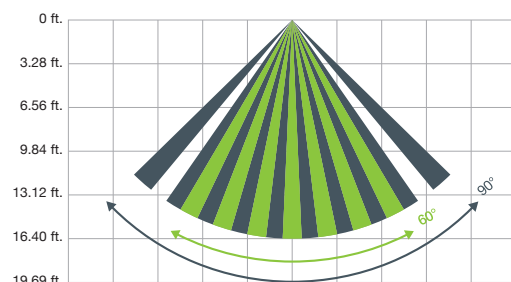
<b>Voltage</b>	3.3 V
<b>IR Detection Range</b>	Up to 16.4 ft.
<b>IR Detection Angle</b>	60°
<b>Cord Length</b>	8 ft.
<b>Movement Detection Range</b>	Up to 16.4 ft.
<b>Movement Detection Angle</b>	90°

## 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

## PIR & IR DETECTION PATTERN

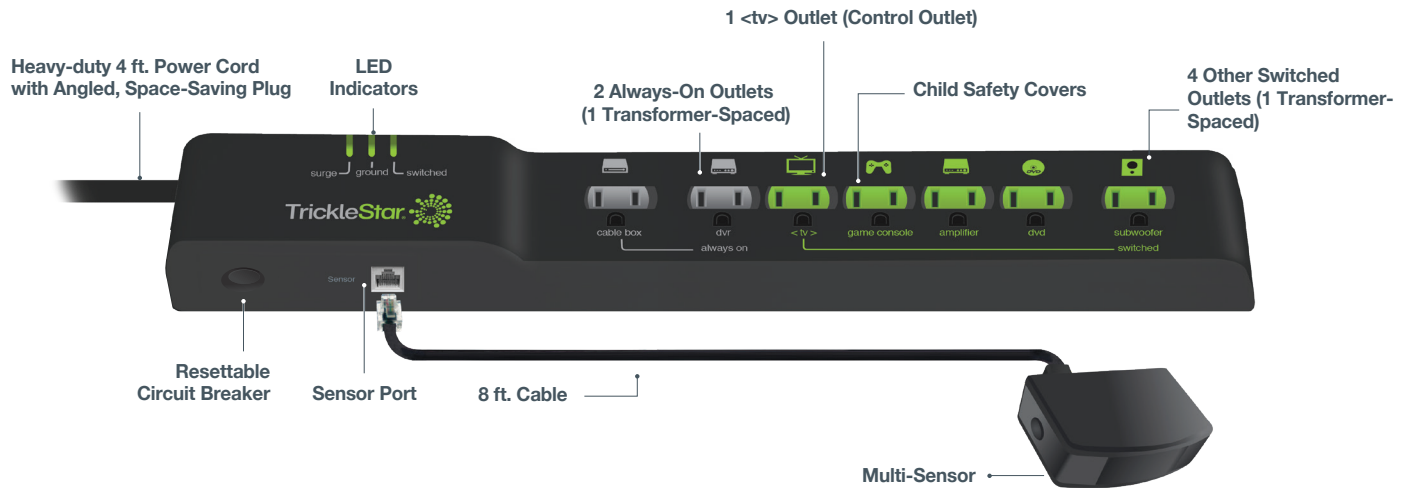
### SENSOR OPTICAL VIEW PATTERN



PIR Detection Range: 16.4 ft.  
Degree: 90°

IR Detection Range: 16.4 ft.  
Degree: 60°

FEATURE DIAGRAM



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+ with Multi-Sensor



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

© TrickleStar 2019. All rights reserved.

TrickleStar® is a registered trademark of TrickleStar, Ltd. All other trademarks are the property of their respective owners. The information in this document is subject to change without notice. TrickleStar assumes no responsibility for any errors that may appear in this document.

REV 10 / 22 Nov 2019