



Applied Physics, Inc.

Leading
Edge
Technology

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APCI & SCD - Patent Pending

Power Hook Up Instructions – Professional Installation Only

You no longer have to frantically search for 2 or 3 power switches, trying to switch from ACTIVE Defense to a SAFE power mode of operation using a Laser Defense and Radar Detector, both which are OPTIONAL. The SCD is designed to detect and prevent a Photo Speed Cameras from acquiring a picture of your license plates. The APC is designed to provide power to the SCD. You can also connect your laser and radar products to the APC, so the cables of these products can be hidden under the dash, and the power to all these products is controlled by the APCI. Switch power from MODE I (SAFE = Optional Laser Park Assist on, license plate lights on only, optional radar detector power off) to MODE II (ACTIVE - Optional Laser Defense on, photo defense on & Optional Radar Detector on). [Applied Physics, Inc. is not responsible for an unqualified installer making incorrect connections between the APC Power Hub and external accessory products.](#)

POWER CONTROL INTERFACE

- Tired of a JUMBLE of Radar, Laser, Photo Wires & Switches
- Control ACTIVE and SAFE Power Modes of 3 products
- Switch all of your radar/laser/photo products from ACTIVE to SAFE mode at the “Flick of a Switch”
- Stop frantically searching for 2-3 separate power switches, when you need to quickly switch from Jam to SAFE mode
- Power Mode LED alerts and photo speed camera alerts
- Plug and Play for your radar, laser and photo products

A) MODE POWER SWITCH

Mode I is a SAFE mode, providing power only to the SCD Photo products, optional LAS Out (Blinder M27 or M47) and optional RAD 2 (radar detector) Out. Mode II is an ACTIVE mode of power, providing 12Vdc to all products. As you are driving down the road, and if you encounter a radar, laser or photo speed trap, and you need to shut one of the products off for reasons of discretion, all you have to do is switch your APCI to MODE I (SAFE), which shuts your radar detector, laser jammer and photo jammer off with one “Flick of a Switch”, while keeping your safe modes of operation on.

MODE I = SAFE Power to Photo License Plates, Laser Park Assist and future RAD2

0 = All Power OFF

MODE II = Active Power to Laser Jammer, Photo Jammer RAD1 and RAD2 (future)

B) MODE LED and PHOTO LED

MODE LED switches from amber color (MODE II) to green color (MODE I)

PHOTO LED switches from green color when power is connected to SCD, and switches to red color on SCD alert

C) LASER and RADAR LED (LASER LED is future use; RADAR LED is for future use; Audio Tone emits from left)

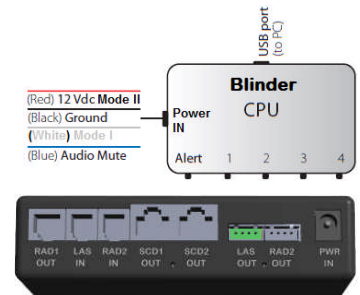
D) 12Vdc INPUT

12 Vdc Input plug is a 2.1mm jack, connected to your vehicle power. Use 2.1mm Black Power cord to connect power.

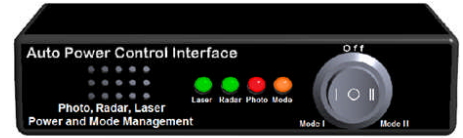


E) LAS OUT, BLINDER M47 and M27 CONNECTOR

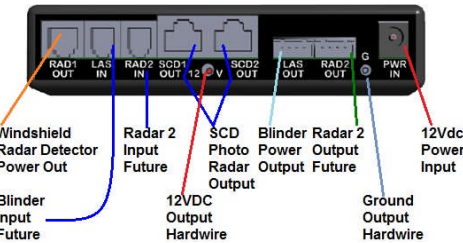
LAS OUT is connected using the **4 wire, 4 color, (red/white/blue/black)** LASER cable provided in the **Cable Accessory Package**. Connect 4 color, (red/white/blue/black) LASER connector to Blinder power inlet on the left side of the Blinder CPU Interface, (small, 4 pin, keyed, white connector). Connect the (red/white/black) 3 lead white connector to LAS OUT of the APC. **Do not look directly into the Blinder during a laser defense alert as you can not see the invisible infrared light.** Do not connect blue wire, RADIO MUTE, unless you have experience with radio mutes. If you do not connect the Blue lead, it does not affect Blinder operation. **Do not look directly into the Blinder during a laser defense alert as you can not see the invisible infrared light.**



F) SCD1 and SCD2 PHOTO OUT



Also Connect to Remote Installed Radar/Laser Products





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Bolt each SCD unit to your license plate and run the cables as required to the APC Power Control. SCD1 and SCD2 (optional) OUT is connected directly to Photo SCD products via CAT 5E cables. SCD-1 is for the back license plate, giving you license plate lights. SCD-2 is for your front license plate. Plug the front SCD into the right connector, (SCD2 Front) and connect your rear SCD unit into (SCD1 REAR) connector. Do not look directly at the SCD when it reacts to a camera. It will detect a camera and respond instantly by flashing down at your plates to protect your plates.

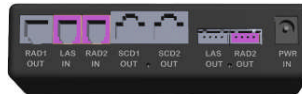


G) RAD1 OUT

RAD1 OUT is connected to Passport 9500ix, Passport 9500i, Passport 8500 X50, Redline Solo S2, Solo S3, Bel RX65, BEL STi Driver, Valentine One using the RAD1 cable (RJ14-6pin) provided in the Optional Cable Package. **This is a specific GRAY, RJ11 power cord**



for radar detectors. Do not use any other power cord.



H) FUTURE INPUT/OUTPUT Capabilities

Future capabilities include RAD2 OUT, LAS IN and RAD2 IN



I) REMOTE PRODUCTS POWER CONNECTION - REMOTE is Professional Install Only

- 1) Turn APC to Mode 0, Disconnect Power input
- 2) There are two NYLON 4-40, pan head screws on the back of the APC enclosure. These screws hold the PCB to the back of the enclosure. **ENSURE POWER CABLE IS DISCONNECTED ON BACK.** Unscrew the 7/8" length 4-40 nylon screw found in the middle of the enclosure back panel. Attach the 12 volt lead, (typically red in color) of your remote accessory to the 7/8" Pan Head 4-40 screw and lock washer. Gently position the 7/8" panhead screw into position and screw it hand tight into the APC. If you wish, you can gently pull the front panel lid off to guide the 4-40 screw into its position. **Cover the metal connection with provided plastic cover, found in the Cable Accessory package. Do not over tighten.**
- 3) Unscrew the 3/8 length 4-40 nylon screw found on the right side of the enclosure back panel. Attach the GROUND lead, (typically black in color) of your remote accessory to the 3/8" Pan Head 4-40 screw and lock washer. Gently position the 3/8" panhead screw into position and screw it hand tight into the APC. **Cover the metal connection with provided plastic cover, found in the Cable Accessory package. Do not over tighten.**
- 4) Reconnect DC Power input. Turn Mode Power Switch to Mode II to turn on/off the remote accessory.



J) CABLE ACCESSORY PACKAGE includes:

LAS OUT is connected using the **4 wire, 4 color, (red/white/blue/black)** LASER cable provided in the Cable Accessory Package. Connect 4 color, (red/white/blue/black) LASER connector to Blinder power inlet on the left side of the Blinder CPU Interface, (small, 4 pin, keyed, white connector). Connect the (red/white/black) 3 lead white connector to LAS OUT of the APC. Do not look directly into the Blinder during a laser defense alert as you can not see the invisible infrared light. Do not connect. **blue wire, RADIO MUTE, unless you have experience with radio mutes. If you do not connect the Blue lead, it does not affect Blinder operation.**



- a) Radar Detector Cable, special RJ11 cable, 10 ft., Gray, Qty 1
Special RJ14-6c/4p cable – connect J1 (RAD1 Out) of APC to Passport/Bel/Valentine One Radar Detector power input.
- b) Dual Mode, Power Switch Extender Cable, 5 ft., **3 wire Gray cable or 3 wire, 3 color red/white/black cable**, Qty 1
If you wish to move the APC Power Switch from the APC front panel, to perhaps your center console of a blank dash position, use the Power Switch Extender Cable to connect as follows. Gently pull the front Panel Lid off, which also removes the S1 Dual Mode Power Switch. Squeeze the side fingers inward and push the switch out of the panel. Position the power switch in the dash or center console location and connect the cable as follows:
Blue lead – connect Male pin from PCB J8 (right PCB connector) to MII side of switch, Female
Red lead – connect Male pin from PCB J7 (center PCB connector) to center of switch, Female
White lead – connect Male pin from PCB J6 (left PCB connector) to MI side of switch, Female
- c) 2.1mm DC Power Cable, 12 Vdc - plug into Cig. Power Outlet to J1 of APC enclosure (back, right jack)
- d) 7/8 Panhead screw and lock washer, Qty 1 + 3/8 Panhead screw and lock washer, Qty 1