95 Series - Alarms & Keypads

95-600 6 ZONE ALARM SYSTEM WITH L.E.D. KEYPAD
95-800 8 ZONE ALARM SYSTEM WITH L.E.D. KEYPAD
New Item 95-1600 8 ZONE ALARM SYSTEM WITH L.E.D. KEYPAD

Burglar and Fire Alarm control panels are ideal for light residential and commercial use. The small keypad with its large, illuminated tactile buttons make entering commands easy in low lighting conditions. Removable front door on control panel for easy wiring and access. Built-in power supply and digital communicator. Unit comes with (1) control panel, (1) L.E.D. digital keypad, (1) AC power transformer. Can use up to seven (95-602) alpha-numeric keypads and four (95-601) L.E.D. keypads. All options are fully programmable thru the digital keypad. Programmable entry, exit, siren delay times. UL Compliance Alarm Panel.

Specifications

Power Requirements	16Vac, 40VA Transformer Supplied
Battery Backup	terminals provided for a 12V battery, rechargeable gel type, not supplied (Calrad part # 95-894)
Regulated Switched Auxiliary Power Supply	500mA - 800mA max, with all devices.
Siren Output:	Current 2 Amps
Zones	Normally Closed and Normally Open
System Capacity	7 alpha-numeric keypads and 4 L.E.D. keypads
Transient & Lightning Protection	Yes
Wiring Knockouts	3/4"
Cabinet Lock	Knockout provided
Dimensions	11"(H) x 11"(W) x 3$\frac{1}{2}$"(D)
Weight	4 lbs.

Easy Access
Barrier Terminal Strip

95-601
L.E.D. KEYPAD
Used with the Calrad 95-600 6 zone alarm system. LED keypad size: 6 $^1/_2$"(W) x 4 $^1/_2$"(H) x 1 $^1/_4$"(D).

95-602
L.C.D. KEYPAD
Used with the Calrad 95-600 6 zone alarm system. LCD keypad size: 6 $^1/_2$" (W) x 4 $^1/_2$"(H) x 1 $^1/_4$"(D).

95-801
L.E.D. KEYPAD
Used with the Calrad 95-800 8 zone alarm system. LED keypad size: 6 $^1/_2$"(W) x 4 $^1/_2$"(H) x 1 $^1/_4$"(D).

95-802
L.C.D. KEYPAD
Used with the Calrad 95-800 8 zone alarm system. LCD keypad size: 6 $^1/_2$"(W) x 4 $^1/_2$"(H) x 1 $^1/_4$"(D).

New Item

95-1601
L.E.D. Keypad
16 zone L.E.D. keypad 55-130mA nominal current draw
Size: 6.5"(W) x 4"(H) x 1.3"(D)

Please Note: Calrad will program the **95-600, 95-800** series alarm systems with basic operating information free of charge, such as zone types, delay times, siren output type, master user code. All programming details must be supplied in writing at the time the systems are ordered. For programming of advanced or custom solutions, please speak with a Calrad technician for fee's and detail's regarding your specific requirements, Please call: **(323) 465-2131**.

See pages 56-57 for security switches and contacts.

CALRAD

95 Series - CCTV Cameras & Mounts

Detailed specifications are available for these products upon request.

95-1012
1/3" B/W CCD CAMERA WITH IR ILLUMINATION
C and CS mount with built-in 3.6mm lens. Video and audio output. 380 lines, 290,000 pixels (CCIR). 0.1 lux illumination. Built-in DC regulator circuit for power input DC 12-15V, current draw 120ma. Size: 2.8"(L) x 2.16"(W) x 2"(H). Color: white.
Power supply NOT included, uses Calrad 45-750 DC power supply

95-1013
1/4" DSP COLOR CAMERA
1/4" color CCD sensor built-in board lens 3.6mm. C and CS mount. Video and Audio output. 380 lines, 290,000 pixels (CCIR). 0.1 lux illumination. Built-in DC regulator circuit for power input DC 12-15V, current draw 160mA. Size: 2.8"(L) x 2.16"(W) x 2"(D). Color: white.
Power supply NOT included, uses Calrad 45-750 DC power supply

95-1023
B/W-IR 1/3" CCD 2.4GHz RF CAMERA
4 channel wireless A\V camera with 380 TV lines, built-in board lens. IR view in the dark L.E.D.'s, 0 lux at 2M via 6IR L.E.D.'s. 10 mw RF output power, removable SMA antenna. User selectable dip switch sets channel frequency. **Includes 12Vdc power supply**. Size: 3"L x 2.2"(H) x 2.2"(D). Color: off white.Frequencies: Ch1-2413MHz, Ch2-2432MHz, Ch3-2451MHz, Ch4-2470MHz.

95-1024
DSP 1/4" COLOR CCD 2.4GHz RF CAMERA
4 channel wireless A\V camera with 350 TV lines, built-in board lens. 10 mw RF output power, removable SMA antenna. User selectable dip switch sets channel frequency. Includes 12Vdc power supply. Size: 3"(L) x 2.2"(H) x 2.2"(D). Color: off white. Frequencies: Ch1-2413MHz, Ch2-2432MHz, Ch3-2451MHz, Ch4-2470MHz.

95-1030
COLOR BULLET CAMERA
1/4" DSP color camera. 350 TV lines, 2 lux, operates on 12Vdc. Built-in board lens, auto gain & shutter. Video output 1Vpp. Size: 3" long, O.D. .87". Output terminates via 36" shielded cable, inline BNC jack for video and a 2.1mm female coax power jack

95-1031
B/W BULLET CAMERA
1/3" DSP B/W camera. 380 TV lines, 1 lux, operates on 12Vdc. Built-in board lens, auto gain & shutter. Video output 1Vpp. Size: 3" long, O.D. .87". Output terminates via 36" shielded cable, inline BNC jack for video and a 2.1mm female coax power jack.

95-1026
1/3" CMOS MINIATURE COLOR CAMERA
This camera is perfect for applications that require a small footprint. Measures only .78"(W) x .79"(H) x .9"(D). Horizontal resolution 330 lines. S/N ratio 40dB. Scanning system 2:1 interlace illumination - 5 lux. NTSC video output 1Vpp. Gamma .45. Clock frequency 19.0699MHz. Operates on 12Vdc, draws 40ma. Lens 6mm/F:2.0. Output terminates via a 36" shielded cable, inline RCA jack for video and a 2.1mm female coax power jack. Color: black.

95-1091
UNIVERSAL CAMERA MOUNTING BRACKET
For use with miniature cameras. Plastic construction. Requires phillips screw driver for angle and swivel adjustments. Height 4", base 1.96". Includes 3 mounting screws. Color: white.

95-1092
90° UNIVERSAL CAMERA MOUNT
For use with miniature cameras. Universal ball mount and swivel head, adjusted by knurled finger grip knob. Steel construction, adjustable height. Base 2". Includes 3 mounting screws. Color: off white.

95-1093
COMPACT UNIVERSAL PLASTIC CAMERA BRACKET
For use with medium sized camera. 220° adjustable head with 360° base. Includes 3 plastic anchors and mounting screws. Height 6". Color: almond.

See pages 56-57 for security switches and contacts.

95 Series – Security Accessories

Detailed specifications are available for these products upon request.

95-1090 UNIVERSAL CAMERA MOUNTING BRACKET

For use with miniature cameras. Universal ball mount and swivel head, adjusted by finger grip knob. Di-cast construction. Height 2.35", base 1.98". Includes 3 mounting screws. Color: off white.

95-1007 2.4GHZ WIRELESS STEREO A/V TRANSMITTER

Preset 4 channels adjusted by slide switch/dipswitch. Use to send DVD or CCTV audio and video signals. Good for up to 150'. 10mw output power. Includes power supplies and A\V cables. Frequencies: Ch1-2413MHz, Ch2-2432MHz, Ch3-2451MHz, Ch4-2470MHz. FCC and UL approved. AC adapter 12Vdc, 200mA.
Size: 5.1"(W) x 1"(H) x 4.75"(D).

95-1080 METAL OUTDOOR CAMERA HOUSING

Die-cast aluminum construction, finished in a light gray powder coating, with black end caps. 3mm thick plate glass, clear window area 2.6" x 2.25". Chassis size 13"(L) x 4"(W) x 4"(H). Will fit cameras up to 10.6"(L) x 3.3"(W) x 2.7"(H).

95-1080H With Heater.

95-1008 2.4GHz WIRELESS STEREO A\V TRANSMITTER
95-1006 2.4GHz WIRELESS STEREO A\V RECEIVER

Preset 4 channels adjusted by slide switch. Includes power supply. FCC and UL approved. RCA jacks video 1Vpp line level audio 200-300Mv. Frequencies: Ch1-2413MHz, Ch2-2432MHz, Ch3-2451MHz, Ch4-2470MHz. AC adapter 12Vdc, 300mA.
Size: 3.25"(W) x 1"(H) x 5.25"(D).

95-1081 METAL INDOOR CAMERA HOUSING

Die-cast aluminum construction, finished in a light gray powder coating, with black end caps. 3mm thick plate glass, clear window area 2.4" x 2.2". Chassis size 10"(L) x 4"(W) x 2.7"(H). Will fit cameras up to 10"(L) x 4"(W) x 2.7"(H).

95-1025 2.4GHz WIRELESS VIDEO CAMERA TRANSMITTER

4 channel wireless video transmitter, converts a hard wired camera to a wireless unit. 10 mw RF output power. User selectable dip switch sets channel frequency. Includes 12Vdc power supply. Mounts to existing camera using a BNC male connector. Color: off white. Frequencies: Ch1-2413MHz, Ch2-2432MHz, Ch3-2451MHz, Ch4-2470MHz.
Size: 2.5"(L) x .75"(H) x .75"(D)

95-1082 UV PLASTIC OUTDOOR CAMERA HOUSING

ABS plastic construction, almond finish. 3mm thick plate glass, clear window area 2.6" x 2.25". Chassis size 15.25"(L) x 5.5"(W) x 4.5"(H). Will fit cameras up to 10.6"(L) x 3.3"(W) x 2.7"(H).

95-1005 4 CHANNEL AUTO SWITCHER 2.4GHz RECEIVER

RCA Audio video outputs for monitor or VCR. Mute and dry contact alarm trigger output (N/O, N/C). Includes DC 12V adapter. Works with Calrad wireless cameras, models: 95-1023, 95-1024 and 95-1008 wireless audio\video transmitter. Detailed specifications available. Frequencies: Ch1-2413MHz , Ch2-2432MHz, Ch3-2451MHz, Ch4-2470MHz.
Size: 6.5"W x 1.5"H x 6.25"D.

95-1049 5" TFT LCD COLOR MONITOR

For home or auto use. Vertical scan switch for ceiling or desktop mounting. Adjustable brightness, color, tint, volume controls. Audio L+R RCA jacks, RCA video input jack. Slide ON/OFF power switch. 1 watt stereo amplifier with 2 speakers. Dot pitch. Screen resolution 980(H) x 234(V) 136(W) x .416 (H). Dimensions: 6.5"W x 5.1"D x 6.75"H. Requires 12Vdc 1A power supply; Calrad 45-752, 45-600, 45-601.

95-1270 REAL TIME B/W QUAD VIDEO PROCESSOR

Real time B\W easy to use quad processor with built-in switcher. 4 video inputs, quad video output screen. Adjustable gain controls for each camera. Video lost detection, video freeze function. Video IN/OUT 1Vpp, 75 ohms. Display rate EIA:60 fields/sec. Switching interval 3 sec. Power 18Vdc. Steel cabinet.
Size: 9.8"(W) x 1.7"(H) x 8.2"(D).

CALRAD

95 Series - A\V Baluns & Security Accessories

Detailed specifications are available for these products upon request.

95-1035
4-WAY AUTO SWITCHER
Auto-switch from 1-4 cameras, channel bypass, 2 monitor outputs, adjustable duty time. Audio and video input/outputs. On-screen programming. IR remote control (optional). Includes 12Vdc, 300mA power supply. Size: 12"(L) x 4.72"(W) x 1.6"(H).

Video In/Out BNC   Audio IN/Out RCA

95-1035R
Infared remote control for the 95-1035.

95-1041 VIDEO BALUN CAT-5 CABLE SYSTEM
Balanced video RJ45 to unbalanced male BNC adapter. Transmit a color video signal up to 1000' using industry CAT-5 networking cables with RJ45 connectors. Includes CAT 5 RJ45 male to 2 screw terminal adapter. The advantages of this type of system are clear video signal, fewer cables to manage, lower cost per connection, centralized wiring for greater control. Video bandwidth 12MHz. Two units required for transmission and reception of balanced signals.
Size: .76"(W) x .9"(H) x 2"(D).

95-1043 3/4 MILE LONG DISTANCE TWISTED PAIR, CAT-5 A/V SYSTEM
For CCTV or any composite video and mono audio signals in need of long cable runs. Converts unbalanced video and audio to a balance system using CAT-5 cable. A pair of wires are also dedicated for security alarm applications. Selectable switch setting for cable length. A remote DC power supply also provides power for 12Vdc color or b/w cameras. Includes 24Vdc 500mA regulated power supply.
Size: 2.8"(W) x 1.1"(H) x 3.2"(D).

2 Video BNC Outputs
1 Audio RCA Output
1 Video BNC Input
1 Audio RCA Input
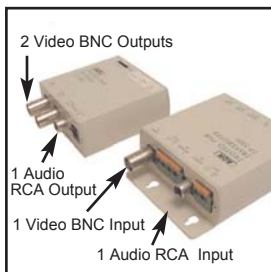
95-1040 RCA Composite Version
95-1045 SVHS Version
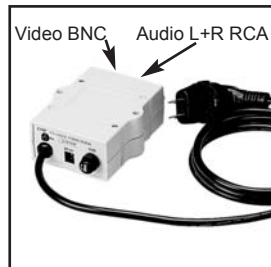### AUDIO & VIDEO BALUN CAT-5 CABLE SYSTEM
Transmit stereo audio and 1 color video signal up to 1000' using CAT-5 networking cables with RJ45 connectors. The advantages of the system are: clear video signal, fewer cables to manage, lower cost per connection, centralized wiring for greater control. Use different CAT-5 wire to identify each signal source. Video bandwidth 12MHz, audio 20Hz-15KHz. Two units required for transmission and reception of balanced signals.
Size: 2.2"(W) x 1"(H) x 3.5"(D).
Comes with BNC to RCA Adapter

95-1045
Audio L+R RCA
1 Video SVHS

95-1042 A/V BALUN CAT-5 CABLE SYSTEM
Transmit stereo audio and 1 color video signal up to over 1000' using CAT-5 networking cables with RJ45 connectors. The advantages of the system are: clear video signal, fewer cables to manage, lower cost per connection, centralized wiring for greater control. Use different CAT-5 wire to identify each signal source. Built-in 12Vdc power supply for CCTV cameras Video bandwidth 12MHz, audio 20Hz-15KHz. DC output 12Vdc, 500mA.
Size: 3"(W) x 1.6"(H) x 2"(D).
Operates on 117Vac.

Video BNC   Audio L+R RCA

95-1044-BNC BNC RGB
95-1044-RCA RCA Component
95-1044-VGA Video Graphics Array
RGB/COMPONENT VIDEO BALUN CAT-5 CABLE SYSTEM
Video (RGB) adapter is designed to convert Red, Green and Blue (RGB) video monitor signals to transmit over CAT-5 UTP cable. Unit has an internal impedance matching device and filter up to 1000 ft. for video signal transmission over UTP cable. Use you existing CAT-5 premises wiring for all new video installation and changes. Color: black. Size: 2.2"(W) x 3.5"(L) x 1"(H).
Specifications
Interface video (R)...... One BNC or RCA female for RED signal
Interface video (G). One BNC or RCA female for GREEN signal
Interface video (B) .... One BNC or RCA female for BLUE signal
Interface UTP.................................. One RJ-45 for RGB signal
RJ-45 pair 4 (pin 7, 8)
RED signal Impedance video..........75 ohm unbalanced
RJ-45 pair 3 (pin 3, 6)
GREEN signal impedance RJ-45....................100 ohm balanced
RJ-45 pair 2 (pin 1, 2)
BLUE signal video bandwidth....................DC to 30MHz

95-1044-RCA
RJ45 & RCA Connectors
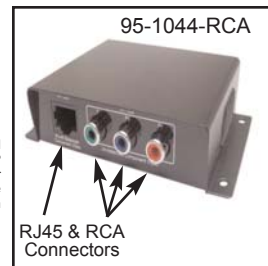
95-1044-VGA detailed specifications available upon request

95-455 INFRARED & MICROWAVE DUALTEC MOTION DETECTOR
Our most advanced motion detector using an infrared sensor to pickup thermal energy and a microwave detector to detect physical motion. This detector incorporates a new sensing circuit to process both technologies to provide a reliable triggering sensor for security systems. Features Microwave/PIR technology, single edge PIR triggering and L.E.D. indicators for IR detection, microwave detection, and alarm triggering. Operates from 6-15Vdc, current draw 35mA. N/C dry contacts 28Vdc, 125mA. Protection coverage 35' long x 35' wide. Color: white.

95-960 TWIN PHOTOBEAM DETECTORS
Fixed dual beam infrared pulsed perimeter detectors. Range 320' indoors, 160' outdoors. Excellent immunity to freezing, snow, rain, fog, and other bad weather conditions. Antifrost design, operates with frost or dew without false alarms. Interruption time adjustable for nearly all situations. N/C tamper switch included. Power input 10-24Vdc.

95-460 IR SENSOR WITH PULSE COUNT
Small compact infrared sensor is perfect for all applications commercial or residential. Stable circuitry for reliable operation. Optional brackets for multi-angle mounting on ceilings or walls. Available in form C relay for normally open, normally closed applications. Tamper switch provided, 35' x 35' coverage. Operates on 12Vdc.

95-464 DUAL GLASS BREAK DETECTOR
This sensor is used to protect areas which conventional sensors that have to be attached to each window, but this unit covers a specific area and uses a dual sensing technology to protect a larger area. The flex audio technology is sensitive to different frequencies. Ultra low end types generated by hard sharp blows to glass windows. The unit remains off until flex technology detects a blow to the glass. For an alarm condition to occur the audio must first detect the frequency of breaking glass within a defined time window. After the flex detects a blow to the glass, because both technologies must detect and verify glass breakage, false alarms are virtually eliminated. Indicator LED's provide visual indicators for various functions. Operates on 12Vdc.
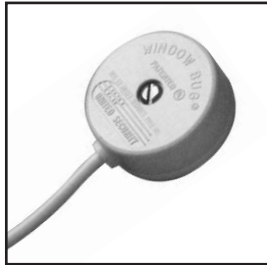
95 Series - Security Accessories

95-920
WINDOW BUG SENSOR
Dry circuit, no power required. Protects up to 32 square feet. Adjustable operation for N/O, N/C circuit. Automatic reset . Peel and stick mounting. Available in white and gray. Provides good visible deterrent.

95-906 PRESSURE SECURITY MAT
Designed to give faultless service, extra thin, made of black PVC plastic, can be placed under existing rugs, mats, etc. Copper bus is used to connect each segment together and is timed for long use. Size: 29"W x 21"L.Normally open.

95-898 BURGLAR ALARM MODULE
Versatile, low cost, solid-state control module with full relay power output. Excellent protection for the home, office, apartments, condominiums, etc. Easy to install. Features closed and open circuit loops. Built-in 3 to 11 minute adjustment reset timer. Will automatically reset if protective loop has been closed. The loops may be armed or disarmed anytime by a key switch. Operates on 6–12 Vdc.
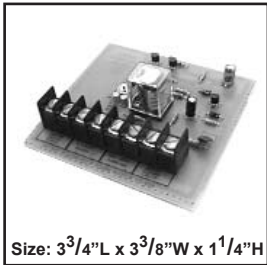
Size: 3^3/4"L x 3^3/8"W x 1^1/4"H

95-899 DELUXE ALARM CONTROL MODULE
Same specifications as the 95-898, but with the added feature of entry/exit time delay circuit. Built-in 3–10 min, adjustable reset timer and sound alert entry reminder. Entry delay loop can be adjusted from 15 to 60 sec. Exit delay is preset at 60 seconds. This entry time delay circuit saves the cost of an outside shunt switch. Also adds to your protection of inside control switching with added nighttime protection while at home. Operates on 6–12 Vdc.
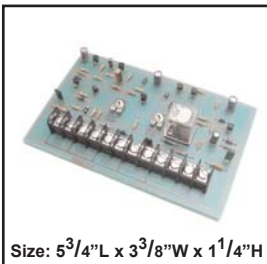
Size: 5^3/4"L x 3^3/8"W x 1^1/4"H

95-914 ELECTRONIC LATCHING RELAY
Momentary input, latching output. Converts old style shunt panel to new multi-key system. Use to shunt an interior loop. Use as a lock-out on commercial systems. Programable 6/12/24Vdc, SPDT relay with two (2) LED indicator outputs.
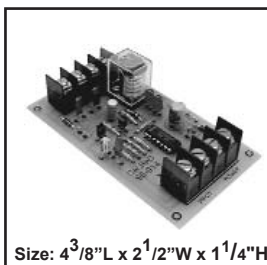
Size: 4^3/8"L x 2^1/2"W x 1^1/4"H

95-405 INFRARED DOOR ANNOUNCER
This door announcing device emits a continuous, invisible infrared beam to the reflector and returns it to the receiver. When this beam is interrupted it will announce the entrance of the customer by a pleasant chime or alarm sound (via selector switch). Single-ended detection technology eliminates the need for a separate transmitter and receiver. An alignment LED is provided for fast and easy installation. Features: All parts included for easy, complete installation. Maximum detection range of 35 feet. Two-chime maximum hook-up. On-Off switch in-line. U.L. Listed transformer provided. 35 foot length of AWG #22 wire provided. Operating voltage of 6 Vdc. Current consumption of 70 mA armed, 1.2 amps alarmed.

95-405-C (EXTRA CHIME SOLD SEPARATELY)

Chime Size:
2.55"(W) x 2.75"(H) x 1.37"(D)

Sensor Size:
1.18"(W) x 2.75"(H) x 2.32"(D)

Reflector Size:
1.95"(W) x 1.95"(H) x .31"(D)

New Item

95-403 RETRO-REFLECTIVE PHOTOELECTRIC SENSOR ENTRY ALERT SYSTEM
This unist is perfect for monitoring an entrance or use as an entrance indicator. Uses Retro-reflective photoelectric sensor. When beamin interupted a "ding-dong" sound or optional siren sound will occur. Speaker volume can be adjusted or turned off. When in siren mode, sounding time is adjustable from 3 to 30 seconds. Range is up to 22 feet or 7 meters. 9Vdc power adapter is included. All components plug into each other so no hard wiring is needed.

Includes the following:
1 Retro-reflective photoelectric sensor
1 Reflector
1 Speaker/electronic chime
1 9Vdc power adapter
Hardware included:
Mounting brackets X 3, Screws X 7, Drywall Anchor X 1

Specifications:
Sensing Range: 22feet
Voltage Supply:..........................Sensor = 9-15Vdc
                            Chime = 12Vdc
Total Current Consumption: ....100mA Max.
Standby Current: 25mA
Light Source:...IR LED
Control Output: .... NPN open collector
....(DC 30V, 100mA Max.)
Speaker Response Time:............~1 sec. for chime
                            30 sec. for alarm
Alarm Time Range:....Adjustable 3~30sec. for alarm
Speaker Output:..Chime/Off/Alarm (Select by switch)

CALRAD

95 Series - Security System Timers & Modules

Detailed specifications are available for these products upon request.

95-840 LOW CURRENT RELAY MODULE

This unit switches a set of dry contacts DPDT rated at 5 amps @250Vac, 30Vdc. Supply Voltage, programable 6/12/24Vdc. Current draw, 70mA when relay is active Minimum pull voltage +/- 20% of operating voltage. LED power indicatgor. Mounts with foam tape.
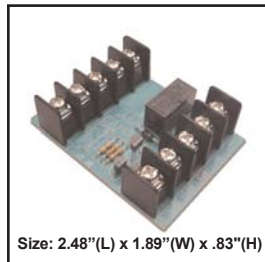
Size: 2.48"(L) x 1.89"(W) x .83"(H)

95-904 24-HOUR PANIC & FIRE CONTROL MODULE

By adding this module to either the Calrad 95-898, 95-899 alarms, or any other standard control center, you can have a 24-hour panic override switching circuit, even though your alarm is on or off. When triggered, this control will activate either the alarm bell, siren or another independent alarm device. May also be used for non-supervised open circuit heat detection.
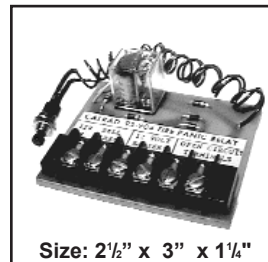
Size: 2½" x 3" x 1¼"

95-847A UNIVERSAL TIMER

This unit can be used for many applications such as a dialer trip delay, bell shutdown timer or exit delay. Features: 1 Sec to 15 Min. adjustable. Relay output (N/C/NO). Low power drain. Transient protected. Voltage reversal protected. Auto reset. Totally enclosed package. Small size.

Specifications

|	
Input Voltage .... 11 to 13 Vdc	Operating Temperature .... 32° to 100° F.
Program Time .... 1 Sec to 15 Min.	Dimensions .... 1.6" (L) x 2"(W) x 1.5"(H)
Operating Current (Relay activated) .... 40mA.	Mounting Area .... 3.6 sq. in.
Operating Current (Relay de-activated) ...... 10mA.	Weight .... 0.15 lbs.
Relay Contact Rating - Voltage .... 50 V ac/dc	Relay Contact Rating - Current .... 2 amps

Size: 1⅜"L x 2"W x 1½"H

New Item

95-724A

DIGITAL ONE CHANNEL ANNUAL EVENT TIMERS

Highly versatile 24 hour, 365 day, event timer. Designed to support a wide range of applications. Such applications include: Home and Building Automation, Security, Access Control etc. Equipped with form "C" relay contacts that provide many latching and/or momentary operations during a program schedule of your choice. The EE prom memory allows for programming of unit prior to/and during field installation. Events may be set for single or multiple operations on a daily and/or weekly schedule. The block progamming feature enables repeating an event on any combination of consecutive days. 95-724A will compensate for daylight savings time if desired. It automatically adjusts for leap year and is Y2K compatible. Individually selected holiday exceptions can be programmed to over-ride regularly scheduled events.

Size: 5.25" (L) x 3" (W) x 1" (H)

Specifications:
12 to 24 volts AC or DC operation
Standby current: 10mA (relay off) 50mA (relay on)
Battery charging current: 100mA
Form "C" relay contacts are rated 10amp @ 120Vac/28Vdc
EE Prom memory protects against loss of programming due to power failure
Accurate crystal controlled clock
Momentary and/or latching events
50 Individually programmed daily/weekly events
Block programming capacity can accommodate a total of 350 events per week
10 programmable holiday dates
"First man in" option
Alphanumeric LCD display simplifies programming
Standard or daylight savings time settings
Automatic compensation for leap year
Built-in charger for 12Vdc sealed lead acid or gel type batteries (max charge current 100mA)
Lithium battery backup maintains clock (optional)
User friendly programming
Unit is Y2K compatible
Board dimensions: 5.25" (W) x 3" (L) x 1" (D)
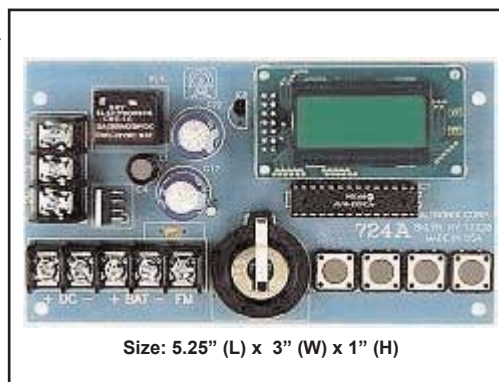
Detailed specifications are available for these products upon request.

95-848 DIGITAL CUT-OFF TIMER

This unit can turn off a ringing bell or siren, can be used as a N/C , N/O delay relay for use as a dry contact switch to delay or remove a contact closure. Requires 6–12 Vdc to operate.

Specifications
Relay Contacts.................... 3 Amp Max.
Current Drain .... 25 mA
Adjustable Relay Time ..... 1 sec–10 min.
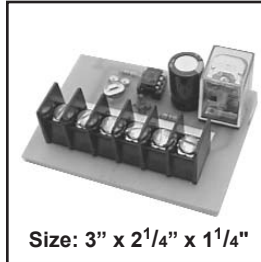
Size: 3" x 2^1/$_4$" x 1^1/$_4$"
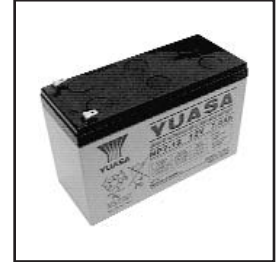
### 95-894 12 VOLT, 7 AMP BATTERY

Lead-acid, sealed rechargeable battery. Replacement battery for Calrad 95-893 power supply. Weight: 5.8 lbs.
Size: 6"(W) x 2.5"(D) x 3.5"(H).

95-845 MULTIMODE PRECISION DIGITAL TIMER

Digital timer .01 seconds to 2550 hours (106 days). Operates at 10-15Vdc. Dry contact relay output, N/O, N/C @ 2A. Select timing modes by dipswitch. Multiple timing operations. Delay on break, delay on make, single shot interval timer, ON/OFF recycle.
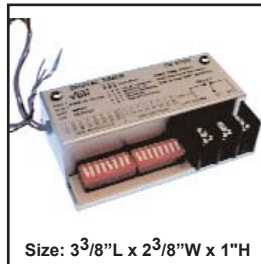
Size: 3^3/$_8$"L x 2^3/$_8$"W x 1"H

95-907 STAINLESS STEEL SLIMLINE REMOTE KEY STATION

.75" "D" punched for keyswitch lock with red and green LED indicators, with tamper protection switch, 6–12 Vdc. Use with Calrad 40-663HS, 40-682, or 40-683 key switches.
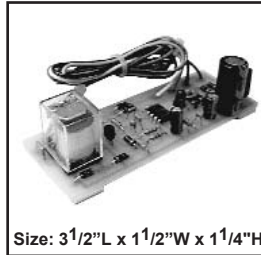
95-846 DIGITAL TIMER

For use with security & gate entry systems, or can be used to control a set of dry contacts with a momentary positive or negative trigger. Time is adjustable from 2-45 sec. Works with AC or DC power. Built-in LED power indicator.

Specifications
Operating voltage .... 12-24 Vac, Vdc
Current consumption relay triggered . 50 mA
Dry contact rating .... 3 amps

Size: 3^1/$_2$"L x 1^1/$_2$"W x 1^1/$_4$"H

95-908 STAINLESS STEEL REMOTE KEY STATION

Remote key station single gang plate, features key switch, circuit test button and red, green indicator, LED lights—to be used with 95-898 or 95-899 alarm module.

95-923 PROGRAMABLE TIMER

Perfect for use with a variety of timed security and access control operations such as door unlock timing, siren, bell timer or VCR/DVD timer. Auto-sensing of input voltage and DIP switches for programming make for easy installation. Time adjustable from 1 second to 60 minutes. AC/DC usage.

Specifications
Operating voltage .... 120Vac, 24 Vdc
Current consumption relay triggered . 50 mA
Dry contact rating .... 8 amps
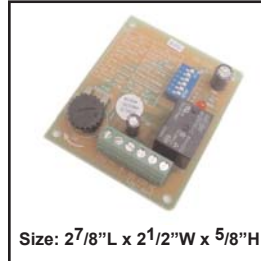
Size: 2^7/$_8$"L x 2^1/$_2$"W x ^{5}/$_8$"H

95-909 SINGLE GANG STAINLESS STEEL

Single gang plate with .75" "D" hole and red, green LED's, 6 Vdc or 12 Vdc operation. Use with Calrad 40-663HS, 40-682, or 40-683 key switches.

95-893 POWER SUPPLY 12 VDC, 7 AMP HR.

Complete with charger board, 16Vac plug-in transformer, 12Vdc, 7.0 amp hour LEAD-ACID Rechargeable Battery. Fuse Protected. Automatic Full Charge Shutdown. Voltage Reference Indicator. With 6" Battery leads.

45-759 1.2 amp REGULATED CHARGER BOARD ONLY

16Vac in, 12Vdc out. Fuse protected. Automatic Full Charge Shutdown. Voltage Reference Indicator
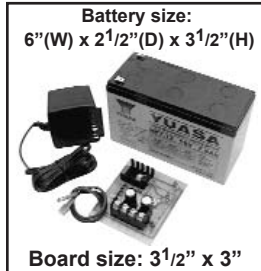
Battery size:
6"(W) x 2^1/$_2$"(D) x 3^1/$_2$"(H)

Board size: 3^1/$_2$" x 3"

95-820 WATER RESISTANT DIGITAL KEYPAD

Water resistant digital keypad for door and gate access. Operates on 12Vdc. Dual output dry contact relays. 2A at 18Vdc, 1A at 120Vac. Tamper proof switch. EEprom memory, audible key beep. 1 million possible codes. Color: white.
Size: 4.6"(L) x 2.9"(W) x .9"(D).

95 Series - Security Accessories

95-821
DOOR OR GATE ACCESS DIGITAL KEY PAD

Indoor digital keypad for door entry and gate access. Stainless steel face plate. Operating voltage 12-14VDC. Current consumption 10-60mA. Relay output 5A at 30Vdc, N\O and N\C dry contact. Over 111 million code combinations. Fits in a single gang opening. Size: 4-5/8 H x 2-7/8" W x 1-7/8" D. Color: stainless steel finish.

New Item

95-822
DUAL LATCHING DOOR OR GATE ACCESS DIGITAL KEY PAD

Same as 95-821, only with dual relay output latching capablities.

95-950 RF REMOTE CONTROL SYSTEM

3 channel RF transmitter and receiver system with dry contact relay switching. Receiver requires 12Vdc. Channel 1 & 2 uses 2 amp relays, channel 3 provides neg. transistor output 500mA. 100'-150' range Used for garage door/gate access or interface with Calrad home/commercial security systems. Code encryption with over 1 million code combinations. Operates on 303MHz.

95-850 ELECTRONIC DOOR RELEASE UNIT

Operates on 10-14Vdc. Current draw 800mA. DC coil resistance 14 ohms. Comes with mounting screws. Mounting plate 6.25" x .99". Coil body 3.5"(H) x 8"(W) x 1.1"(H). Overall depth 1.25".

Lock=1.86" x .65"

95-889 ALARM SIREN

Operated from 6 to 12 Vdc. Siren is designed to produce a wobble type sound electrically with amplifier contained in housing. Output is approximately 124 dB ±2 dB, 12 Vdc, with sound pressure meter 10 ft. away. Rated operating current 1 Amp ±0.2 Amp at 12 Vdc. Color: black.

20-312 SIREN HORN

Same unit as 20-310 (shown on page 18) except features built-in siren amplifier. 30 Watts, Operates on 6–12 Vdc, our most powerful siren horn, has wiring for both steady and yelp siren operation. 120 dB at 6ft. Horn Dimensions: $4^{3}/4$" x 8" x $9^{1}/4$" (deep) Color: white.
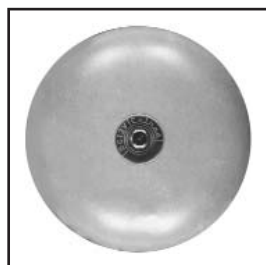
6 / 8 / 10 INCH BELLS

Produces loud clear ring, will overcome most high background noises. UL approved.

95-882 6 inch, 12 Vdc, 82 dB, .06 amps
95-888 8 inch, 12 Vdc, 85 dB, .06 amps
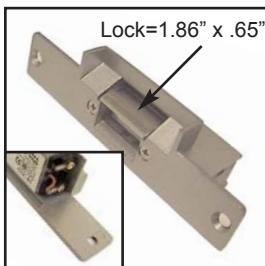**95-911** 10 inch, 12 Vdc, 85 dB, .06 amps

95-885 3-INCH AC BELL

Produces loud clear ring. Overcomes high background noises. Operates directly from any output receptacle that produces 117 Vac, 60 cps power source.

95-900 ELECTRONIC DUAL BEEPER HORN

Produces penetrating continuous or pulsating tone. Will operate on either 6 or 12 Vdc. Used in many alarm warning devices. Small in size, mounts into $1^{1}/8$" hole. Color: black.
Size: 1"(H) x 1.5" (dia).

95-902 ELECTRONIC BEEPER HORN

Highly advanced, small in size, low in power consumption. Used in many alarm warning devices.
Specifications
Voltage .... 2 to 24 Vdc
Power Output.................... 93 dB at 12 Vdc
Current...................................... 20 mA max
Size fits into $^{11}/_{16}$" hole or mount $1^{5}/_{16}$" centers
Starting Voltage........................... 1.0V max
Color... Black
Size..................................... 1"(H) x 1" (dia).

95-890 SELF-CONTAINED SIREN SPEAKER

High-powered, compact siren speaker. Produces loud, ear-piercing warble or steady tone. Operates on either 6 or 12 volts DC and draws only 400 mA of current. Easy-mounting and weather resistant. Color: white.
Size: 4"(L) x 4"(W) x 2"(D).

95-926 SINGLE RELAY SOCKET FOR CAR ALARMS

95-927 DUAL RELAY SOCKET FOR CAR ALARMS

Mates with 95-925 12V relay or similar industry standard automoive footprint.
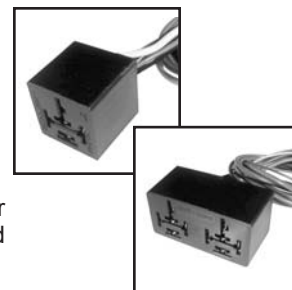
95-925 12 Volt SPDT ALARM RELAY

30/40A contacts. Current draw 120mA. Coil resistance 93 ohms DC. N\O, n\c contacts. Metal tab with .2" hole for mounting. Excepts .25" female spade lugs. Fits in Calrad 95-926 or 95-927 relay sockets.

95-869B 6-WATT AUDIO AMPLIFIER MODULE

Solid-State Audio Amplifier Module with max 5 watt output.

Specifications

Power Supply Voltage .... 12-15 V
Frequency Response 10 to 25 KHz.
Input Impedance .... Low Z
Input Sensitivity .... 6 mv.
Power Input............ Mono 6 W., 8Ω
Distortion .... 1% @ full output
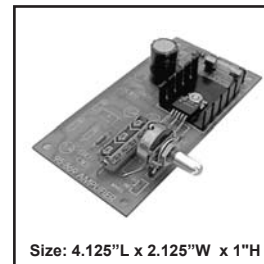
Size: 4.125"L x 2.125"W x 1"H

95-830 POWER AMPLIFIER

This power amplifier is a very versatile high fidelity amplifier and has many useful applications. A few of these are as follows: A power amplifier for Walkman or similar type of AM/FM stereo headphone radio, they can be converted into a high powered stereo system for home use. This can easily be done by connecting the headphone output from the radio to the input control of the amplifier. As a power amplifier for the auto, van, camper, trailer and boat, or as a portable system for outdoor use. A public address amplifier for both indoor and outdoor use.

Specifications

DC Voltage... 12 to 15V		Input Sensitivity .... 0.6V at full output	
Frequency Response .... 10 to 25 kHz		Power Output.......... Mono: 15W at 8Ω. Stereo: 6W	
Input Impedance... Low Z		Distortion...................................... 1% @ full output	
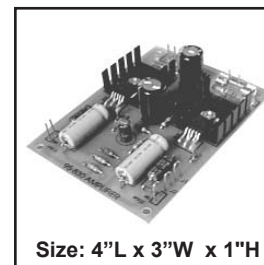
Size: 4"L x 3"W x 1"H

Amplifiers & Preamps Pages 174-176

95-702   AC/DC 15 WATT PUBLIC ADDRESS AMPLIFIER

Comes complete with microphone. Has inputs for microphone, auxiliary, phone, and microphone auxiliary. Also has built-in siren. Chassis size: 6.5"(L) x 6"(W) x 2.75"(H).

Specifications:

Power Source .... DC 12V (11-16V standard 14.4V)
Input impedance... Mic 200-50K ohm adaptable / Aux. 10K
Input Level... Mic -50dB ± 1dB / Aux. -22dB ±1 dB (for rated output)
Output Impedance .... 4~16 ohmΩ
Poser Consumption .... Less than 3A at max. output
Siren... Electronic operated automatic waving type
Fog-horn .... Electronic fog-horn
Dimensions... 155mm(W) x 150mm(D) x 65mm(H)
Weight.. 0.78kg

Size: 6.5"L x 6"W x 2.75"H

CALRAD

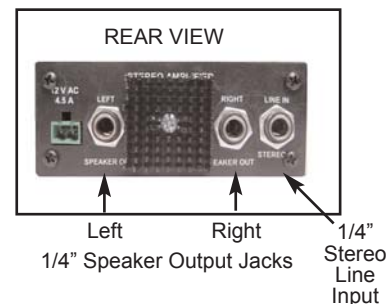## 95 Series - Stereo Amplifiers & Preamps

New Item

95-2020
45 WATT STEREO AUDIO AMPLIFIER

Small, powerful stereo amplifier is perfect for professional and consumer audio applications. Front panel mounted left and right volume controls. Comes with passive heat sink (no fan required) Illuminated On/Off rocker switch. Stand alone unit or fits Calrad 4 X 1/4 rack unit p/n 95-2024A.

SPECIFICATIONS

Inputs:........................ ¼" Stereo Jack x 1 (rear)
Output:........................ ¼" Mono Jack x 2 (rear)
Output Power:.......45 Watts per Channel MAX
Imput Impeedence: 50KΩ
Signal to Noise Ratio: 95dB
Total Harmonic Distortion: 003%
Connector .... 2 Position Male Phoenix
      (male connector on power supply)
Power Supply:... 12Vac @4.5 amps (included)
Dimensions: .... 4⅜" (W) X 5"(D) X 1¹¹⁄₁₆"(H)
Case Color .... Black

REAR VIEW

Left   Right   1/4"
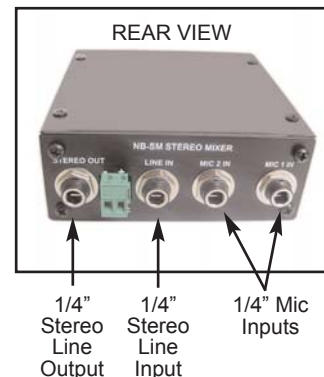1/4" Speaker Output Jacks   Stereo Line Input

New Item

95-2021
STEREO MICROPHONE & LINE PREAMP

This low noise preamp is perfect for mixing 2 microphones and 1 line input signal sources. Front panel volume controls for each input. Illuminated on/off rocker switch. Mono 1/4" mic input jacks rear panel and 1/4" front panel input jack. 1/4" stereo output jack. Stand alone unit or can be mounted in Calrad's 1/4 x 4 19" rack face-plate, p/n 95-2025.

SPECIFICATIONS

Inputs:
Mic1, Mic 2: ...1/4" Mono Jacks X 2 Rear Panel
Line In:.......... 1/4" Stereo Jack X 1 Rear Panel
Line In:.... 3.5mm Stereo Jack X 1 Front Panel
Line In:......... 1/4" Stereo Jack X 1 Front Panel
Output: ....1/4" Stereo Jack X 1Rear
Signal to Noise Ratio: .... -68dB
Frequency Response:............... 25Hz - 25KHz
Dynamic Range: 130dB
Power Supply: ...... 12Vac @150mA (included)
                (phoenix power connector)
Dimensions:0........ 4⅜" (W) X 5"(D) X 1¹¹⁄₁₆"(H)
Case Color ....Black

REAR VIEW

1/4" & 3.5mm Stereo Line Inputs

1/4" Stereo Line Output
1/4" Stereo Line Input
1/4" Mic Inputs

95-2024A
Rack Mount 4 Position 19" Face-Plate
Dimensions: ....19"(W) X 1¾"(H)
Face Plate Color ....Black

95-2026 Wall Bracket
Designed for wall mounting or structured wire panel box.

95-2024A Rack Mountable Face-Plate

95-2025
Black Blank Insert for 95-2024A Face-Plate with Calrad Logo

95-874 & 95-875 PAGING AMPLIFIERS

Rugged and versatile public address amplifiers use discrete output drivers for high performance and reliability. These amplifiers are ideal for today's wide sound reinforcement needs. These units work on 110 Vac or 12 Vdc and music muting is also provided.

Specifications	95-874	95-875
Output Power	30 watts music power	60 watts music power
Muting Level	-20 dB	-20 dB
Total Harmonic Distortion	Less than 5% @ full volume	Less than 5% @ full volume
Frequency Response	100Hz - 16KHz	100Hz - 16KHz
Inputs & Sensitivity	Mic. 1: -55db @ 600 Ω	Mic. 1: -55dB @ 600Ω
	Mic 2: -55db @ 600 Ω	Mic 2: -55dB @ 600Ω
	Aux. -20dB	Aux. -20dB
	Music: -20dB	Music: -20dB
S/N Ratio	better than 50 dB	better than 50 dB
Output Impedance	4, 8, 16Ω	4, 8, 16 Ω
Controls	Mic 1: Volume Control	Mic 1: volume controls
Music Muting	Mic 2: Volume Control	Mic 2: Volume Control
	N/O comtacts	N/O contacts
	AUX & Music Volume Control	AUX & Music Volume Control
	Tone Control	Tone Control
Operating Voltages	117 Vac/50Hz or DC 12Vdc	117 Vac/50Hz or DC 12Vdc
Dimensions	4.5"(H) x 10"(W) x 8.55"(D)	4.5"(H) x 10"(W) x 8.55"(D)
Weight	8.8 lbs.	8.8 lbs.

95-790 CHASSIS MOUNT AC RECEPTACLE

Solder type, 3-prong (grounding type) jack. Snap-in mounting. UL approved. 15A/125V. Mounts in 1.06"(W) x .87"(H) hole. Overall depth 1.28". Black plastic body.
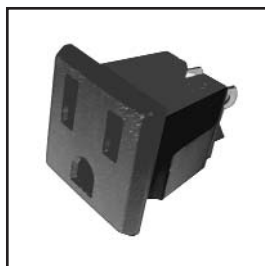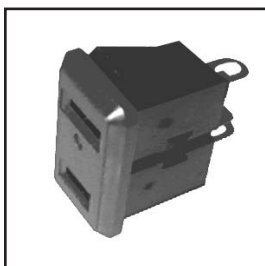

95-771 FEMALE AC SOCKET

Solder type, recessed female AC panel jack. 10A at 250Vac. Black plastic body. US anD CSA approved. Mounts in 1.27"(W) x .96"(H) hole. Overall depth 1.25" with 1.55" mounting centers. Black plastic body.

95-791 CHASSIS MOUNT AC RECEPTACLE

Solder type, 2-prong (polarized) jack. Snap-in mounting. UL approved. 15A/125V. Mounts in .95"(W) x .48"(H) hole. Overall depth 1.13". Black plastic body.

95-772 HEAVY DUTY INLINE MALE AC PLUG

Solder type, inline 3 conductor male AC connector. 10A at 250Vac. Black plastic body.

95-770 MALE AC SOCKET

Solder type, recessed male AC panel jack. 10A at 250Vac. Black plastic body. US and CSA approved. Mounts in 1.1"(W) x .74"(H) hole. Overall depth 1.25" with 1.55" mounting centers. Black plastic body.

95-770-SNAP Snap-in version, US and CSA approved Mounts in 1.025" (W) x .84"(H) hole. Overall depth .96". Black plastic body.
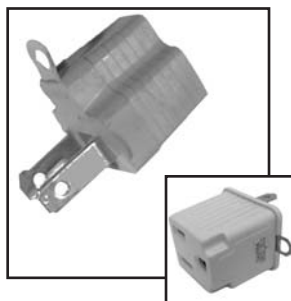

95-773 HEAVY DUTY INLINE FEMALE AC PLUG

Solder type, inline 3 conductor female AC connector. 10A at 250Vac. Black plastic body.

New Item

CALRAD

95 Series - AC Wall Adapters, Splitters & Surge Strips

95-795 POLARIZED AC 3 WIRE GROUND ADAPTER
120 Vac - 20 amp rating. Rubber body.

95-795-UL POLARIZED AC 3 WIRE GROUND ADAPTER
120 Vac - 20 amp rating. Plastic body.

95-794 TRIPLE OUTLET ADAPTER
Converts 1 AC outlet to 3 outlets. 120 Vac - 15 amp rating.

95-775 2 WAY IEC/AC SPLITTER
1 IEC Male to 2 regular AC female 3 prong outlets. rubber body.

95-796 SINGLE OUTLET SURGE PROTECTOR
1-mov, 90-joules. LED power indicator. 120 Vac, 15 amp, 1875 watt rating. UL listed.

95-776 2 WAY IEC/AC SPLITTER
1 IEC male to 1 AC 3 prong and 1 IEC Females. Rubber Body

95-793 3-OUTLET SURGE PROTECTOR
270-joules. LED surge and ground fault indicator. UL/CSA listed. 125 Vac, 15 amp rating.

95-777 2 WAY AC SPLITTER
1 male AC 3 prong to 2 females Color is Black. Rubber Body

95-797-RF SINGLE OUTLET SURGE PROTECTOR FOR AC OUTLETS & CATV

95-797-TEL SINGLE OUTLET SURGE PROTECTOR FOR AC OUTLETS & TELEPHONE DEVICES

95-797-RF

This surge protector protects against damaging electrical spikes and surges. It is designed to provide safe power, and to filter radio frequency (RFI) and electromagnetic (EFI) inference. The light indicates that the unit is protecting against voltage surges and spikes.

Specifications:
3 line protection .... (hot, neutral, ground)
Noise reduction .... EMI\RFI
Energy dissipation .... 210 joules (8 x 20us)
Electrical rating .... 125Vac/15A/1,875 watts
UL Listed .... TVSS 1449
Maximum spike current .... 4,500 amps
Response time........... Less than 1 nanosecond

95-797-TEL

95-792-GN Green
95-792-OR Orange
3 WAY AC GROUNDING WALL TAP.
Available in either green or orange color options. 110/125Vac, 15 amp rating. UL listed. Rubber Body

95 Series - AC Power Surge Strips

95-798-RF 6 WAY OUTLET SURGE PROTECTOR FOR AC OUTLETS AND CATV JACKS

This surge protector protects against damaging electrical spikes and surges. It is designed to provide safe power, and to filter radio frequency (RFI) and electromagnetic (EFI) inference. The light indicates that the unit is protecting against voltage surges and spikes.

Specifications:
3 line protection .... (hot, neutral, ground)
Noise reduction .... EMI\RFI
Frequency range .... 100K - 100MHz
Attenuation .... Up to 52dB
Energy dissipation .... 420 joules (8 x 20us)
Electrical rating.......................... 125Vac/15A/1,875 watts
Clamping Voltage 330V
Maximum spike current .... 19,500 amps
Max. Surge voltage.. 6000V
Response time.......... Less than 1 nanosecond UL Listed TVSS 1449

95-798-TEL 6 WAY OUTLET SURGE PROTECTOR FOR AC OUTLETS AND TELEPHONE DEVICES

Same specifications as 95-798-RF above with modular telephone jacks instead of CATV jacks.

95-783 6 OUTLET ADAPTER WITH SURGE PROTECTION (METAL)

1-mov, 90-joules basic protection. Resettable circuit breaker. Illuminated ON-OFF rocker switch. 4 ft., 14 awg heavy duty cord. Baked enamel ivory finish.

95-783-P (Straight AC Plug)
95-783-P-RT (Right Angle AC Plug)
6 OUTLET ADAPTER WITH SURGE PROTECTION (PLASTIC)

Provides protection against noisy AC power. MOV circuitry for reducing harmful power spikes and surges, reduces, RFI and EMI signals. On\Off power switch with 15A circuit breaker. 3 ft. 14 AWG, 3 prong AC cord. Maximum surge dissipation 59 joules. Maximum surge voltage 6000 volts. Maximum spike current 4500 amps. Response time less than 1 nanosecond. UL/CSA listed. High impact ABS plastic housing.

95-786 9 OUTLET MODEM/TV SURGE PROTECTOR

Child protected slide outlet covers suitable for DSS dish installation. 3 transformer spaced outlets. 6-mov, 840-joules. 3 Line protection. EMI-RFI noise filtered. Built-in resettable circuit breaker. ON-OFF illuminated rocker switch. LED surge and ground fault indicator. Surge fail audible alarm alert. 6 ft. 14 awg heavy duty power cord. UL/CSA listed. High impact ABS plastic housing.

95-788 8 OUTLET DBS SURGE PROTECTOR

TV-DSS surge protector used for DSS satellite installations. 3-class 2 transformer spaced outlets. 5-MOV 1680 joules, 3 line protection EMI-RFI noised filtered up to 60dB from 100KHz to 10MHz. Protects phone/fax/modem, satellite, cable coax connections. Illuminated breaker switch. L.E.D. surge and ground fault indicator. Surge fail audible alarm alert. 6 ft. 14 awg heavy duty power cord. Max surge voltage of 6500. 5-2250Mhz premium 'F' connectors. Child protected slide outlet covers. High impact ABS plastic housing. UL/CSA listed. UL497A, 1993, 1449. Size: 4.5"(W) x 1.74"(H) x 11.5"(D). Color is white.

95-784 6 OUTLET MODEM AND FAX SURGE PROTECTOR

3-mov, 270-joules. 3 Line EMI-RFI noise filtered. Built-in resettable circuit breaker. ON-OFF illuminated rocker switch. LED surge indicator. 6 ft. 14 awg heavy duty power cord. UL/CSA listed. Baked enamel metal housing.

95-785 6 OUTLET MODEM/FAX SURGE PROTECTOR

Child protected slide outlet covers. 3-mov, 270-joules. 3 Line protection. EMI-RFI noise filtered. Built-in resettable circuit breaker. ON-OFF illuminated rocker switch. LED surge and ground fault indicator. 6 ft. 14 awg heavy duty power cord. UL/CSA listed. High impact ABS plastic housing.

95-780 6 OUTLET HEAVY DUTY SURGE PROTECTOR WITH CORD MANAGEMENT

Comes with 6 outlets, 2 configured for power supplies and 4 standard spaced outlets. Integrated illuminated breaker switch. 14 AWG, 6 ft. grounded power cable. Built in mounting brackets and heavy duty steel housing UL/CSA approved. Color is yellow

95-781 8 OUTLET HEAVY DUTE SURGE PROTECTOR WITH CORD MANAGEMENT

Comes with 8 outlets, 3 configured for power supplies and 5 standard spaced outlets. Integrated Illuminated breaker switch. Built in mounting brackets, heavy duty steel housing. 14 AWG 6 ft. grounded power cable. UL/CSA approved. Color is yellow

New Item

New Item

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CALRAD

95 Series AC Power Surge Strips

95-789 11 OUTLET AC SURGE-PROTECTOR STRIP

Provides protection against noisy AC power. MOV circuitry for reducing harmful power spikes and surges, reduces, RFI and EMI signals. On\Off power switch with 15A circuit breaker. 6 ft. 14 AWG, 3 prong AC cord. Maximum surge dissipation 59 joules. Maximum surge voltage 6000 volts. Response time less than 1 nanosecond. UL\CSA listed. High impact ABS housing. 4 Cutout slots on the bottom for wall mounting.

New Item

95- 787 10 OUTLET 19" RACK MOUNTED POWER STRIP

UL listed 19" Rack-Mounted power surge strip with 10 rear facing 3-prong outlets. 15 ft. 14AWG grounded 3-wire cord with 6 MOV 3-line protection EMI\RFI noise filter (100Khz-1Mhz), built-in resettable circuit breaker. Front panel power switch, seperate L.E.D surge/ground-fault indicators. Black-powder coated cold rolled steel construction. 125Vac, 15A 1875 watt, clamping voltage 340V, surge dissipation, 570 joules. Size: 19" (W) x 1-3/4" (H) x 4" (D), includes mounting hardware.

New Item

**Catalog 60
Available on Disk**

Member Of

CEDIA

**Visit our Homepage
on the Internet.
The address is:
www.calrad.com**

CATALOG 60 ....