

SA-500 CRUISER

THE *SA-500* CRUISER

from

CARSON
SIRENS



"The Compact Full Featured Siren"

The **SA-500 CRUISER** is one of the most efficient, rugged, reliable, and functional sirens on the market today. And at only 2 1/8" high, the **CRUISER** is one of the smallest full featured sirens. This self-contained siren easily fits into a police car or ambulance console or dash using significantly less space, leaving room for other equipment.

The **SA-500 CRUISER** incorporates many of the most popular features including the following:

- **Output Diagnostics Indicator:** Sensors at the siren output connector measure when the siren is creating an output to the speaker(s) and indicates the status on the face using an LED light. This provides the service person with the ability to determine if the problem is internal with the siren or external with the wiring and speaker(s) should the system fail to produce a warning signal.
- **Separate Radio & PA Face Mounted Volume Controls:** Two rotational volume controls with compact knobs accessible on the face allow for separate control of the output volume of the Radio when re-broadcasted over the siren speaker and PA giving the operator greater flexibility to set the needed volume levels based upon the noise level of the surrounding environment at the time of use.
- **DIP Switch Programmable:** Flexible DIP Switch programming allows the installer to sample different settings before selecting desired functions. Options include disabling Phaser and Air Horn to be California Title 13 compatible, replacing Phases with Two-Tone/HiLo, Yelp override, Short Manual, selecting Manual/Phases or Horn Ring Cycler 2 operation through the auxiliary input, and setting the auxiliary input and cutout input polarity.
- **LED Backlighting:** Just as incandescent lights in a regular lamp burn out regularly, an incandescent bulb in a siren has a limited life and often fails. LEDs used for backlighting are designed to last the life of the product and never burn out or need to be changed.
- **Quick-Snap Fastener:** The secure fastener makes it easy to open and close the siren by using a pressure connection between the chassis and cover holding them together. The siren requires no tools to open it up or screws that can easily get lost.

The **SA-500 CRUISER** hits the road running.

SA-500 CRUISER


Specifications

| | |
|-------------------------|---|
| Siren | |
| Input Voltage | 9 - 16 VDC (negative ground) |
| Input Current | 8 Amps or 16 Amps @ 14 VDC |
| Standby Current | Less than 150 ma |
| Audio Frequency | 200Hz - 10kHz +/- 3db |
| Audio Distortion | Less than 3% (@ 1kHz - single 100W speaker) |
| Audio Output | 40W (@ 14 VDC per 100W speaker) |
| Radio Input | 0.75 VRMS Min., 400 ohms nominal |
| Output Power | 105W RMS Max (@ 15 VDC - single 100W speaker) 180W RMS Max (@ 15 VDC - dual 100W speakers) |
| Siren Frequency | 700Hz - 1500Hz (Two-Tone & Air Horn = 435 & 585Hz) |
| Tones/Cycle Rates | Horn = 109 CPS, Wail = 13 CPM, Yelp = 190 CPM, Phases = 15 CPS, Two-Tone = 60 CPM |
| High Voltage Protection | 16 - 18 VDC output ceases, resumes at normal level |
| Short Circuit Current | 50 Amps Min. from supply circuit |
| Operation Temperature | -15F to 140F |
| Controls | 4 Position rotary, push button for Manual/Phases toggle, push button for Horn, noise canceling microphone, PA volume control, Radio volume control, auxiliary input for +/- Horn, Manual or HRC2 operation, cutout input for +/- latching cutout operation, and 8 position DIP switch option selector |
| Siren Connections | 10 Pin connector: 2 positive, 2 negative, 2 speaker, 2 radio, cutout, and auxiliary input |
| General | |
| Size | 6 1/8" Wide, 2 1/8" High, 5 7/8" Deep |
| Shipping Weight | 4 1/2 Lbs |
| Ratings Met | Class A Sound Level, California Title 13, KKK |

Features

- 100/200 watt amplifier
- Four position rotary switch for tone selection with positions for Wail and Yelp
- Two Momentary push buttons for Manual/Phases override and Air Horn override
- PA override with noise-canceling microphone
- Separate Radio and PA volume controls on the face of the unit
- LED backlit for nighttime visibility
- Output indicator light on the face for diagnostics
- Horn Ring Cyclor 2 (HRC2) for hands free siren control for pursuit and rescue situations
- Siren Cutout disables the siren tone when exiting the vehicle
- Internally fused to protect the siren
- Flexible DIP switch programmable options
- Detachable plug connector with screwdown terminals for the siren
- No-hassle 5-year limited warranty

| | SA-500 CRUISER | Federal Signal PA300 | Whelen 295HF100 | Code 3 Scorpion 3932 | Signal Vehicle Products (SVP) SS700 |
|--|---------------------------|-------------------------|--------------------|-------------------------|---|
| Efficient 8 Amps Max Operating Current per 100 Watts of Output | Yes | | | | Yes |
| Flexible DIP Switch Programmability | Yes | | | | |
| LED Backlit | Yes | | Yes | | Yes |
| Dedicated On/Off Switch | Yes | | Yes | | Yes |
| PA Audio Distortion Less Than 3% | Yes | | | | |
| Radio Volume Control Rotary Switch with Knob on Face | Yes | | | | |
| Speaker Diagnostics | Yes | | Yes | | Yes |
| Quick-Snap Fastener Chassis to Cover Connection | Yes | | | | |
| Siren Height | 2 1/8" | 2 1/2" | 2 1/2" | 2 1/4" | 2 1/2" |
| 5-Year Warranty | Yes | | Yes | | |

WARNING  **Sound Hazard** - Sound level from siren speaker (>120dBA @ 10 feet) may cause hearing damage. Do not operate siren without adequate hearing protection for you and anyone in immediate vicinity. (Ref. OSHA 1910.95 for occupational noise exposure guidelines)