

# SA-500-20 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, Power C and Air Horn to be California Title 13 compatible, replacing Phaser with Two-Tone/HiLo, Yelp override, Short Manual, selecting Manual/Phaser or Horn Ring Cyclor 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. Blue 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.**

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5451 North Rural Street - Indianapolis, IN 46220  
1.888.577.6877 or 317.257.3191 - Fax 317.254.2667 - [www.carsonsirens.com](http://www.carsonsirens.com)

# SA-500-20 CRUISER

## Specifications

<b>Siren</b>	
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)
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, Phaser = 15 CPS, Two-Tone = 60 CPM, Power C = 100 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
<b>General</b>	
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/Phaser override and Air Horn override
- PA override with noise-canceling microphone
- Separate Radio and PA volume controls on the face of the unit
- Blue LED backlit for nighttime visibility
- Output indicator light on the face for diagnostics
- Horn Ring Cyler 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

	<i><b>SA-500 Cruiser</b></i>	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)

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