



# THE SA-430 PATRIOT

from

**CARSON**  
SIRENS

## “Remote Full Featured Siren”

The **SA-430 PATRIOT** remote full featured siren is a strong, efficient traffic mover. It's versatility and durability make it ideal for installations where mounting space is limited and in an extreme environment. The remote control head mounts flush while protruding only an inch deep into a factory or custom made dash or console. The amplifier includes a sturdy steel cover to protect the internal electronics and an efficient design that produces minimal heat and requires no vent holes for heat displacement.

Many of the features that set the **SA-430 PATRIOT** apart include several installation characteristics and operating options as detailed below:

- **Face Adjustable PA Volume Control:** When using the noise-cancelling microphone, the face mounted rotational volume control with adjustable knob provide control over the PA output levels to adjust to different broadcast environments and operator voice level.
- **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 Phaser with Two-Tone/HiLo, selecting Horn Ring Cyclor 2 operation through the auxiliary input or Siren button, and setting the cutout polarity.
- **1” Deep Control Head:** The less intrusive the flush mount control head can be, the more versatile it is to mount because the clearance space needed behind the control head is reduced. This is the only mono tone flush mount siren that is 1” or less in depth.
- **Serial Control Data Line:** A single data line delivers information between the control head and the amplifier. The small #22 AWG wire makes installation easier.
- **Siren Cutout Input:** Also referred to as a Park Kill, the Cutout Input connects to an external switch like the door switch and turns off any siren tone being produced when activated.

The **SA-430 PATRIOT** is saving lives.

# SA-430 PATRIOT


## Specifications

<b>Siren</b>	
Input Voltage	11 - 16 VDC (negative ground)
Input Current	8 Amps or 16 Amps @ 14 VDC
Standby Current	Less than 250 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, Phaser = 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	Control: 6 Position rotary, push button for Manual and Horn, noise canceling microphone, PA volume control, auxiliary input for +/- Horn, Manual or HRC2 operation Amplifier: Radio volume adjust, 8 position DIP switch option selector
Siren Connections	Control: 5 Pin connector with 22 AWG leads: positive, negative, control output, backlighting input, and auxiliary input for +/- Horn, Manual or HRC2 operation Amplifier: 10 Pin connector: 2 positive, 2 negative, 2 speaker, 2 radio, control input, and cutout
<b>General</b>	
Size	Control: 6 1/4" Wide, 2 7/8" High, 1" Deep Amplifier: 8" Wide, 2 1/8" High, 6 3/4" Deep
Shipping Weight	5 1/2 Lbs
Ratings Met	Class A Sound Level, California Title 13, KKK

## Features

- 100/200 watt amplifier with remote control head
- Single 22 AWG serial control data line connecting the control head and the amplifier
- Six position rotary switch for tone selection with positions for Wail, Yelp, Phaser, and Air Horn
- Momentary push button for siren override and Manual siren control
- PA override with noise-canceling microphone and a dedicated volume control on the face of the unit
- LED backlit for nighttime visibility
- 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
- Externally 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

	<b>SA-430 PATRIOT</b>	Federal Signal PA4000	Whelen 295HFS2	Whelen 295HFS3	Signal Vehicle Products (SVP) SS730
Single Line Control Head to Amplifier Connection	Yes	Yes			Yes
Control Head Depth of 1" or Less	Yes				
Flexible DIP Switch Programmability	Yes				
PA Volume Control Potentiometer with Face Adjustable Knob	Yes				Yes
Air Horn Selectable on the Rotary Switch	Yes				
Cutout/Park Kill Optional Feature	Yes	Yes			Yes
5-Year Warranty	Yes		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) 