

SpectrAlert® Advance
Outdoor & Specialty Applications
PRODUCTS



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ASPIRATION



AV



BEAM



CO



HVAC



SPOT



SPRINKLER



MODULES



RELAYS





Simple to install.

Installation ease with an aesthetic design.

The only AV products with plug-in designs, aesthetic and functional consistency, and field-adjustable settings across the entire line, SpectrAlert Advance enables you to meet the widest range of notification requirements and specifications in the industry.

With SpectrAlert Advance, you can take on any project with confidence, knowing you can meet requirements while maximizing the efficiencies of using a single product line. Whether for emergency communications projects, small notification systems, or anything in between, SpectrAlert Advance products, tools, and accessories simplify the entire user experience – from planning and selection to training, installation and maintenance – saving you time and money while protecting the lives of your customers.

Multiple Installation Options.

Most Reliable and Best Looking Installation Options.

SpectrAlert Advance® Outdoor products can be mounted directly on wall surfaces using the side flanges provided, which maintains the seal integrity of the product. In addition, the back boxes can be mounted on 2x4 and 4x4 electrical junction boxes.

Install Your Device Where You Need It.

Not just outdoor! Our products are best for specialty applications such as parking garages, pool rooms, roof tops, and more! Anywhere where devices are exposed to the elements, humidity, or extreme temperatures.



Outdoor and NEMA Rated Locations

- Outdoor Sports Stadiums
- Water Treatment Plants
- Outdoor Sprinkler Riser Room
- Inside Processing Plant
- Indoor w/ Sprinkler System
- Apartment Complexes
- Breezeways
- Dept. of Defense Specs
- Service Stations
- Water Parks

58% – Building Exteriors

46% – Parking Garages

13% – Pools or Saunas

13% – Showers

13% – Cold Storage

8% – Rooftops

42% – Other

*Based on a recent System Sensor survey

Strobes

SpectrAlert® Advance Strobes

SpectrAlert Advance strobes – which are available in ceiling-mount or wall-mount varieties to meet a wide variety of applications – are ideal for warning hearing-impaired individuals during an emergency event. For convenient installation, the universal mounting plate with its snap-in feature holds the product in place for the screw attachment. Strobes feature 11 field-selectable candela settings and are compatible with 12- or 24-volt systems for a high level of customization. Please note that model numbers with a “K” suffix are outdoor-rated products listed to UL 1638 and rated from -40° F to 151° F (-40° C to 66° C), with a NEMA 4X rating or 3R rating. See page 7 for our line of plain strobes for ECS/MNS applications.



Ceiling-Mount Strobes

Red Model No.	White Model No.	Candela	Marking	Description
SCRK	SCWK	Standard	FIRE	Clear lens
SCRHK	SCWHK	High	FIRE	Clear lens



Wall-Mount Strobes

Red Model No.	White Model No.	Candela	Marking	Description
SRK	SWK	Standard	FIRE	Clear lens
SRK-R	SWK-R	Standard	FIRE	Clear lens, Device only
SRIK	SWHK	High	FIRE	Clear lens
SRIK-R	—	High	FIRE	Clear lens, Device only

Notes:

- Standard Candela settings: 15, 15/75, 30, 75, 95, 110, and 115
- High Candela settings: 135, 150, 177, and 185
- -R represents replacement device only, ships minus plastic weatherproof back box.
- -R outdoor replacement models are meant for use with WTP series of weatherproof flush-mount plates or SA-WBB outdoor metal weatherproof back boxes.



Weatherproof Features NEMA 4X or 3R Rating

The Broadest Line of Outdoor Notification Appliances

System Sensor offers the broadest line of outdoor notification appliances on the market with a true NEMA 4X enclosure rating and a 3R rating when using the weatherproof plates. Designed to be watertight and to operate in a wide temperature range, SpectrAlert Advance outdoor audible visible (AV) appliances are an ideal solution for fire, general signaling, mass notification, or emergency communication system (ECS) projects that require exterior notification or notification in areas where ambient conditions may exceed the environmental tolerances of typical indoor AV devices.

To learn more about our outdoor notification appliance line, visit us at: [systemsensor.com/av-outdoor](https://www.systemsensor.com/av-outdoor)

Horns

SpectrAlert® Advance Horns

SpectrAlert Advance horns increase application flexibility for indoor or outdoor installations. Intended for full building notification as well as on the property ground, they produce a loud sound to notify occupants to evacuate the buildings. Installers can easily adapt devices to suit a wide range of application requirements by using field-selectable sound patterns and volume settings. Compatible with 12- or 24-volt systems. The universal mounting plate's plug-in design simplifies installation, too. SpectrAlert Advance "K" series outdoor products are listed to UL 464 for private mode applications and rated from -40° F to 151° F (-40° C to 66° C), with a NEMA 4X rating.

Wall-Mount Horns

Red Model No.	White Model No.	Description
HRK	—	Horn
HRK-R	—	Horn, Device only

Notes:

- -R represents replacement device only, ships minus plastic weatherproof back box.
- -R outdoor replacement models are meant for use with WTP series of weatherproof flush-mount plates or SA-WBB outdoor metal weatherproof back boxes.



Horn Strobes

SpectrAlert® Advance Horn Strobes

SpectrAlert Advance horn strobes are rich with features guaranteed to cut installation time and maximize profits. Intended for full building notification as well as on the property ground, they produce a loud sound to notify occupants to evacuate the buildings; the strobe is intended to notify those that may have a hearing impairment. Features include a universal mounting plate with a preliminary snap-in feature to hold the product in place for the screw attachment, 11 field-selectable candela settings, and rotary switches to select horn tone and volume settings. Compatible with 12- or 24-volt systems. Model numbers with a "K" suffix are outdoor products that are listed to UL 1638 and UL 464 for private mode evacuation. The outdoor products are rated from -40° F to 151° F (-40° C to 66° C) and have a NEMA 4X rating.

Ceiling-Mount Horn Strobes

Red Model No.	White Model No.	Candela	Marking	Description
PC2RK	PC2WK	Standard	FIRE	2-Wire, Clear Lens
PC2RHK	PC2WHK	High	FIRE	2-Wire, Clear Lens



Wall-Mount Horn Strobes

Red Model No.	White Model No.	Candela	Marking	Description
P2RK	P2WK	Standard	FIRE	2-Wire, Clear Lens
P2RK-R	—	Standard	FIRE	2-Wire, Clear Lens, Device Only
P2RHK	P2WHK	High	FIRE	2-Wire, Clear Lens
—	P2WHK-R	High	FIRE	2-Wire, Clear Lens, Device Only
P2RHK-120	—	High	FIRE	2-Wire, Clear Lens, 120 V
P4RK	P4WK	Standard	FIRE	4-Wire, Clear Lens
P4RK-R	—	Standard	FIRE	4-Wire, Clear Lens, Device Only

Notes:

- Standard Candela settings: 15, 15/75, 30, 75, 95, 110, and 115
- High Candela settings: 135, 150, 177, and 185
- -R represents replacement device only, ships minus plastic weatherproof back box.
- -R outdoor replacement models are meant for use with WTP series of weatherproof flush-mount plates or SA-WBB outdoor metal weatherproof back boxes.



Speakers

SpectrAlert® Advance Speakers

Dual-voltage (25/70.7 Vrms) evacuation speakers are designed for fast installation and top performance in noisy environments. The outdoor and specialty applications speakers offer high-volume sound output for use in high-ambient noise applications. Evacuation speakers also feature a plug-in design for reducing ground faults. The outdoor models ship with a plastic outdoor back box, featuring removable side flanges and improved saltwater corrosion resistance. Model numbers with a “K” suffix are outdoor rated products that are listed to UL 1480 and rated from -40° F to 151° F (-40° C to 66° C), with a NEMA 4X rating.



Ceiling-Mount Speakers

Red Model No.	White Model No.	Description
—	SPCWK	Dual-voltage evacuation speaker
—	SPCWK-R	Dual-voltage evacuation speaker, Device only

Wall-Mount Speakers

Red Model No.	White Model No.	Description
SPRK	SPWK	Dual-voltage evacuation speaker
SPRK-R	—	Dual-voltage evacuation speaker, Device only

Notes:

- -R represents replacement device only, ships minus plastic weatherproof back box.
- -R outdoor replacement models are meant for use with WTP series of weatherproof flush-mount plates or MWBB outdoor metal weatherproof back boxes.

Speaker Strobes

SpectrAlert® Advance Speaker Strobes

During an emergency, building occupants and those on property grounds need to quickly understand what is happening and what actions to take. SpectrAlert Advance speaker strobes transmit the clear, intelligible messages and visible notification necessary to meet code, save lives, and protect property. In addition, selectable-output speaker strobes offer many features to reduce ground faults and simplify installation. Rotary switches allow installers to select voltage and power, and the 11 field-selectable candela settings accommodate any application. The outdoor and specialty applications speakers offer high volume output, making them ideal for use in high-ambient noise environments. The plug-in design and universal mounting plate provides additional flexibility. Model numbers with a “K” suffix are outdoor rated products that are listed to UL 1638 and UL 1480 and are rated from -40° F to 151° F (-40° C to 66° C), with a NEMA 4X rating or 3R rating when using the weatherproof plates. The outdoor models ship with the plastic outdoor back box.



Ceiling-Mount Speaker Strobes

Red Model No.	White Model No.	Candela	Marking	Description
—	SPSCWK	Standard	FIRE	Clear lens
—	SPSCWK-R	Standard	FIRE	Clear lens, Device only
—	SPSCWHK	High	FIRE	Clear Lens

Wall-Mount Speaker Strobes

Red Model No.	White Model No.	Candela	Marking	Description
SPSRK	SPSWK	Standard	FIRE	Clear lens
SPSRK-R	SPSWK-R	Standard	FIRE	Clear lens, Device only
SPSRHK	—	High	FIRE	Clear Lens

Notes:

- Standard Candela settings: 15, 15/75, 30, 75, 95, 110, and 115
- High Candela settings: 135, 150, 177, and 185
- -R represents replacement device only, ships minus plastic weatherproof back box.
- -R outdoor replacement models are meant for use with WTP series of weatherproof flush-mount plates or MWBB outdoor metal weatherproof back boxes.

Plain Horn Strobes, Speaker Strobes, and Strobes

SpectrAlert® Advance Plain Notification Appliances

SpectrAlert Advance plain horn strobes, speaker strobes, and strobes were designed to reduce installation time and meet a wide variety of Mass Notification and Emergency Communication applications. All of the plain notification appliances carry the same product specifications as the “FIRE” marked products. Compatible with our colored lenses and decal kits to provide distinctive visual signaling during and emergency. Model numbers with a “K” suffix are outdoor rated products that are listed to UL 1638 and UL 1480 and are rated from -40° F to 151° F (-40° C to 66° C) and have a NEMA 4X rating. The outdoor models ship with the plastic outdoor back box.

Wall-Mount Horn Strobes

Red Model No.	White Model No.	Candela	Marking*	Description
P2RK-P	P2WK-P	Standard	None	2-Wire, Clear Lens
P2RHK-P	P2WHK-P	High	None	2-Wire, Clear Lens



Plain Ceiling-Mount Speaker Strobes

Red Model No.	White Model No.	Candela	Marking*	Description
—	SPSCWHK-P	High	None	Clear lens



Plain Wall-Mount Speaker Strobes

Red Model No.	White Model No.	Candela	Marking*	Description
SPSRK-P	SPSWK-P	Standard	None	Clear lens



Plain Wall-Mount Strobes

Red Model No.	White Model No.	Candela	Marking*	Description
SRK-P	SWK-P	Standard	None	Clear lens
SRHK-P	SWHK-P	High	None	Clear lens



Notes:

- Standard Candela settings: 15, 15/75, 30, 75, 95, 110, and 115
- High Candela settings: 135, 150, 177, and 185
- -P denotes plain devices with no markings.
- *Compatible with DECAL-R and DECAL-RC for white devices (red letters) and DECAL-W or DECAL-WC for red devices (white letters).

Emergency Communication Devices

Alert Devices for Emergency Communication Systems

ALERT-printed devices include all the time and cost-saving benefits of the rest of the SpectrAlert Advance line, while also meeting NFPA Chapter 24 and UFC requirements. Clear lens strobes are listed to UL 1638 for public mode evacuation and are compatible with colored lenses and decal kits. Speaker meets UL 1480 requirements.

Model numbers with a “K” are outdoor rated products that are listed to UL 1480 and UL 1638 and rated from -40° F to 151° F (-40° C to 66° C), with a NEMA 4X rating.



ALERT Ceiling-Mount Strobes and Speaker Strobes

White Model No.	Candela	Marking	Description
SPSCWK-CLR-ALERT	Standard	ALERT	Speaker Strobe, Clear lens



ALERT Wall-Mount Strobes and Speaker Strobes

White Model No.	Candela	Marking	Description
SPSWK-CLR-ALERT	Standard	ALERT	Speaker Strobe, Clear lens

Notes:

- Standard Candela settings: 15, 15/75, 30, 75, 95, 110, and 115
- High Candela settings: 135, 150, 177, and 185
- -CLR-ALERT models are Clear Lens marked ALERT

Audible Visible Accessories

SpectrAlert Advance devices can be adapted to nearly any application with the appropriate accessory. Our mounting options allow our strobes, speakers, horns, and strobe combinations to be placed in new or existing construction with professional results.



Ceiling-Mount Back Boxes

Red Model No.	White Model No.	Description
SA-WBBC	SA-WBBCW	Metal outdoor back box for ceiling-mount horns, strobes, and horn strobes
—	MWBBCW	Metal weatherproof back box for speakers and speaker strobes



Wall-Mount Back Boxes

Red Model No.	White Model No.	Description
SA-WBB	SA-WBBW	Metal outdoor back box for wall-mount horns, strobes, and horn strobes
MWBB	MWBBW	Metal outdoor back box for speakers and speaker strobes

Audible Visible **Accessories** cont.

Colored Lenses - For use with plain (non-FIRE marked) strobe devices.

Ceiling Model No.	Wall Model No.	Color	Description
LENS-AC	LENS-A	Amber	Lens attachment for all SpectrAlert Advance plain (non-FIRE marked) indoor or outdoor, ceiling- or wall-mounted strobes
LENS-BC	LENS-B	Blue	
LENS-GC	LENS-G	Green	
LENS-RC	LENS-R	Red	



Decal Kits - For use with plain (non-FIRE marked) devices.

Mounting	Model No.	Color	Description
Ceiling	DECAL-RC	Red Letters	60 decals* for up to 5 white devices (3 decals are required per device)
	DECAL-WC	White Letters	60 decals* for up to 5 white devices (3 decals are required per device)
Wall	DECAL-R	Red Letters	40 decals* for up to 5 white devices (2 decals are required per device)
	DECAL-W	White Letters	40 decals* for up to 5 red devices (2 decals are required per device)

*All decals include labels "AGENT, EVAC, ALERT and FIRE" for up to 5 devices.



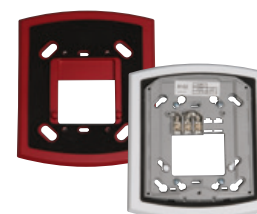
Mounting Plates

Model No.	Mounting	Description
MP120K	Wall or Ceiling	Indoor/Outdoor 120 VAC adapter mounting plate for use with SpectrAlert Advance horns, strobes, 2-wire horn strobes



Weatherproof Plates

Red Model No.	White Model No.	Description
WTP	WTPW	Weatherproof plate for flush mounting outdoor horns, strobes, and horn strobes
WTP-SP	WTP-SPW	Weatherproof plate for flushing mounting outdoor speakers and speaker strobes



Sync-Circuit Module

Red Model No.	White Model No.	Description
MDL3R	MDL3W	12 and 24 V sync-circuit module

*Sync-circuit modules not intended for outdoor installation.



Specifications and Ratings

UL Max. Strobe Current Draw (mA RMS)

	Candela	8–17.5 Volts		16–33 Volts	
		DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	NA	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

UL Max. Horn Current Draw (mA RMS)

Sound Pattern	dB	8–17.5 Volts		16–33 Volts	
		DC	FWR	DC	FWR
Temporal	High	57	55	69	75
Temporal	Medium	44	49	58	69
Temporal	Low	38	44	44	48
Non-Temporal	High	57	56	69	75
Non-Temporal	Medium	42	50	60	69
Non-Temporal	Low	41	44	50	50
Coded	High	57	55	69	75
Coded	Medium	44	51	56	69
Coded	Low	40	46	52	50

Horn Output (dBA) in UL Reverberant Room

Switch Position	Sound Pattern	dB	8–17.5 Volts**		16–33 Volts**		24 Volt Nominal Measurements			
			DC	FWR	DC	FWR	Reverberant		Anechoic	
							DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	75	75	80	80	86	85	96	96
3	Temporal	Low	71	71	76	76	81	79	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	89	98	98
6	Non-Temporal	Low	73	74	81	81	86	84	96	92
7*	Coded	High	82	82	88	88	93	92	101	101
8*	Coded	Medium	78	78	85	85	90	89	97	98
9*	Coded	Low	74	75	81	81	85	83	96	92

*Horn & 4-wire Horn Strobe only. **Minimum dB rating for Operational Voltage Range per UL 464.

Candela Measurements, Amber Lens Strobe

	Candela	On-Axis Rating (UL 1638)
Standard Candela Range	15	15
	15/75	15/75
	30	30
	75	75
	95	95
	110	110
	115	115
High Candela Range	135	135
	150	150
	177	177
	185	185

Candela Derating

For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

Strobe Output (cd)	
Listed Candela	Candela rating at –40°F
15	Do not use below 32°F
15/75	
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

Rotary Horn and Horn Strobe Switch Settings

Setting	Repetition Rate	dB Level
1	Temporal Horn	High
2	Temporal Horn	Medium
3	Temporal Horn	Low
4	Normal Horn	High
5	Normal Horn	Medium
6	Normal Horn	Low
7*	Externally Coded	High
8*	Externally Coded	Medium
9*	Externally Coded	Low

*Horn and 4-wire horn strobe only.

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)

DC Input	8–17.5 Volts		16–33 Volts						
	15	15/75	15	15/75	30	75	95	110	115
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-Temporal High	141	152	91	100	116	176	201	221	229
Non-Temporal Medium	133	145	75	85	102	163	187	207	216
Non-Temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135–185 cd)

DC Input	16–33 Volts				FWR Input	16–33 Volts			
	135	150	177	185		135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

Outdoor Speaker and Speaker Strobe Sound Output

UL Reverberant (dBA @ 10 ft.)	2 W	1 W	½ W	¼ W
Wall- and Ceiling-Mount Speaker K Series	90	87	84	81
Wall- and Ceiling-Mount Speaker Strobe K Series	89	86	83	80

Specifications

K Series Operating Temperature
–40°F to 151°F (–40°C to 66°C)

Humidity Range
10% to 95% non-condensing

Strobe Flash Rate
1 flash per second

Nominal Voltage
Regulated 12 DC/FWR or regulated 24 DC/FWR¹

Operating Voltage Range²
8 V to 17.5 V (12 V nominal) or 16 V to 33 V (24 V nominal)

Input Terminal Wire Gauge
12 AWG to 18 AWG

Ceiling-Mount Dimensions (including lens)
6.8 in Dia. × 2.5 in H (173 mm Dia. × 64 mm H)

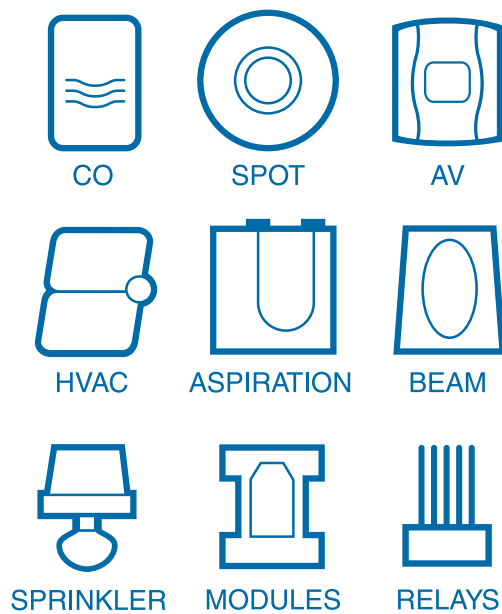
Wall-Mount Dimensions (including lens)
5.6 in L × 4.7 in W × 2.5 in D
(142 mm L × 119 mm W × 64 mm D)

Horn Dimensions
5.6 in L × 4.7 in W × 1.3 in D
(142 mm L × 119 mm W × 33 mm D)

Wall Weatherproof Back Box Dimensions
5.7 in L × 5.1 in W × 2.0 in D
(145 mm L × 130 mm W × 51 mm D)

Notes:

1. Full Wave Rectified (FWR) voltage is an unfiltered, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.
3. To calculate current draw for 4-wire horn strobes, combine horn and strobe current draws from the tables at left.



Founded in 1984, System Sensor is a global manufacturer of fire and life safety devices, specializing in smoke detection, carbon monoxide detection, and notification technology. System Sensor develops products for real-world applications worldwide. With sales, service, and manufacturing facilities throughout the Americas, Europe, and Asia, System Sensor places a premium on research and development to provide the most reliable, innovative, and comprehensive line of products in the industry.

