



# SWIFT AV Base

The System Sensor SWIFT® Wireless system offers an AV base to support L-Series devices in wireless installations.



## Features

- Wireless installation
- Class A mesh network
- Addressable code wheels
- Commercial applications
- Listed to UL 464, UL 1638, UL 1971, ULC S525, and ULC S526
- Frequency hopping
- Bi-Directional Communications

The **SWIFT AV bases (WAV-CRL and WAV-CWL)** are intended for use with compatible System Sensor L-Series AV notification appliances to meet a comprehensive range of notification requirements. The AV Base provides power for the audio and visual signals and supports wireless communication with the Fire Alarm Control Panel (FACP). The L-Series AV notification appliance is mounted directly to the wireless AV base allowing flexibility in color, placement and signal output.

Power is supplied through two sets of 4 batteries – one set provides power for wireless communication, and the other set provides power for the notification appliance’s audio and/or visual signal. Battery life of the wireless portion is UL listed for at least 2 years. Battery life for the AV set of batteries depends upon the activation time and output level of the audio or visual signal.

The SWIFT synchronization module (W-SYNC) can be used to provide audio and visual synchronization between SWIFT notification appliances and System Sensor wired notification appliances. The wireless synchronization module operates from 24V power with supplemental battery support and communicates through the mesh network to the gateway and FACP. Synchronization is only available with notification appliances that use the System Sensor synchronization protocol. Synchronization of the SWIFT notification appliances within a single mesh network is inherent in the wireless system and a wireless synchronization module is not needed. The W-SYNC also provides wireless control and monitoring of a Notification Appliance Circuit (NAC) expander or power supply.

## SWIFT SYSTEM OVERVIEW

The SWIFT Smart Wireless Integrated Fire Technology wireless system offers intelligent (addressable) devices which provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. Wireless devices create an opportunity for applications where it is costly (concrete walls/ceilings, buried wires), obtrusive (surface mount conduit), or possibly dangerous (asbestos) to use traditional wired devices. It allows fast installation

## Agency Listings



for time-critical situations and provides the flexibility to add wireless onto wired systems for retrofit installations. Both wired and wireless devices can be present on the same FACP for an integrated solution.

The mesh network within the SWIFT system creates a child-parent relationship between the devices so that each device has two parents providing a second path for communications on every device. If one device can no longer operate for any reason, the rest of the devices can still communicate with each other, directly

or through one or more intermediate devices. Once an initial mesh network is formed, mesh restructuring automatically occurs to find the strongest paths possible within the network.

The SWIFT system also engages frequency hopping to prevent system interference whether intentional or accidental. Each device complies with part 15 of the FCC rules: 1) The device may not cause harmful interference and 2) The device must accept any interference received including interference that may cause undesired operation.

## Specifications

Physical/Operating Specifications	
<b>Dimensions (Ceiling)</b>	Diameter 7.4" (19 cm); Depth 1.6" (4 cm)
<b>Weight (Ceiling):</b>	20.0 oz (567 g) installed with 8 batteries
Electrical Specifications	
<b>RF Operating Voltage Range</b>	3.3 VDC
<b>RF Maximum Current Draw</b>	5 mA (LED On)
<b>AV Operating Voltage Range</b>	12 VDC
<b>AV Maximum Standby Current</b>	6.5 mA
<b>AV Maximum Alarm Current</b>	550 mA
<b>Standby Current</b>	210 µA @ 3.3 VDC (LED blink enabled)
<b>Maximum Transmit RF Power</b>	17 dBm
<b>Radio Frequency Range</b>	902-928 MHz
<b>Operating Humidity Range</b>	10% to 93% Relative Humidity, Non-condensing
<b>Operating Temperature Range</b>	32°F to 120°F (0°C to 49°C)
<b>Battery Type</b>	8 Panasonic CR123A or 8 Duracell DL123A
<b>Battery Life</b>	<i>RF batteries:</i> 2 year minimum. <i>AV batteries:</i> See Table 2 for AV battery life.
<b>Battery Replacement</b>	Replace during annual maintenance or when TROUBLE BATTERY LOW displays.

Battery Life at Temporal 3, Ambient Conditions											
Model	Model Type	Battery Life (Minutes), per Candela Setting									
		15 cd	30 cd	75 cd	95 cd	110 cd	115 cd	135 cd	150 cd	177 cd	185 cd
<b>Strobe-only</b>	<b>Ceiling</b>	1305	849	482	399	—	339	—	283	237	—
<b>Chime-Strobe</b>	<b>Ceiling</b>	1115	764	461	388	—	324	—	269	225	—
<b>Horn-Strobe</b>	<b>Ceiling</b>	754	594	374	324	—	286	—	247	211	—

NOTE: Battery life will decrease using continuous tone or other coded patterns and under non-ambient environmental conditions.

## Compatible Equipment

Note: ULC-listed models have all required languages.

System Sensor L-Series AV Devices		
Model (UL listed)	Model (ULC listed)	Description
CHSCRL	CHSCRLA*	Chime/Strobe Red Ceiling
	CHSCRLA-E	Chime/Strobe Red Ceiling, English
	CHSCRLA-F	Chime/Strobe Red Ceiling, French
CHSCWL	CHSCWLA*	Chime Strobe White Ceiling
	CHSCWLA-E	Chime/Strobe White Ceiling, English
	CHSCWLA-F	Chime/Strobe White Ceiling, French
PC2RL	PC2RLA*	Horn Strobe 2-wire Red Ceiling
	PC2RLA-E	Horn/Strobe 2-wire Red Ceiling, English
	PC2RLA-F	Horn/Strobe 2-wire Red Ceiling, French
PC2WL	PC2WLA*	Horn Strobe 2-wire White Ceiling
	PC2WLA-E	Horn/Strobe 2-wire White Ceiling, English
	PC2WLA-F	Horn/Strobe 2-wire White Ceiling, French
SCRL	SCRLA*	Strobe Red Ceiling
	SCRLA-E*	Strobe Red Ceiling, English
	SCRLA-F	Strobe Red Ceiling, French
SCWL	SCWLA*	Strobe White Ceiling
	SCWLA-E	Strobe White Ceiling, English
	SCWLA-F	Strobe White Ceiling, French
SCWL-CLR-ALERT	—	Strobe White Ceiling Clear Lens Alert

\*Bilingual Canadian model

## Ordering Information

Part No.	Description
WAV-CRL	Wireless AV base, ceiling, red
WAV-CWL	Wireless AV base, ceiling, white
W-SYNC	Wireless Sync Module
W-BATCART	Wireless battery cartridge, 10-pack

## Accessories

**W-BATCART**  
Wireless battery  
cartridge



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