

# WAV-CRL and WAV-CWL

## SWIFT Wireless AV Base

### General

SWIFT® AV bases 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 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.

The SWIFT® synchronization module (W-SYNC) provides audio and visual synchronization between SWIFT notification appliances and System Sensor wired notification appliances supporting the integrated wired-wireless solution. The module only operates 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 so 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. The wireless synchronization module operates from 24V power with supplemental battery support and communicates through the mesh network with the gateway and Fire Alarm Control Panel (FACP).



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W-BATCART Wireless battery cartridge

### SWIFT System Overview

The SWIFT Smart Wireless Integrated Fire Technology wireless system offers intelligent (addressable) devices which provide secure, reliable communication with the 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 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.

## FEATURES & BENEFITS

- Converts compatible System Sensor L-Series AV appliances to addressable wireless AV appliances
- Wireless installation
- Class A mesh network
- Addressable code wheels
- Commercial applications
- Listed to:
  - UL 464
  - UL 1638
  - UL 1971
- Frequency hopping
- Bi-Directional Communications

# WAV-CRL and WAV-CWL Technical Specifications

## PHYSICAL/OPERATING SPECIFICATIONS

**Dimensions (Ceiling):** Diameter 7.4" (19 cm); Depth 1.6" (4 cm)

**Weight:** 20.0 oz (567 g) installed with 8 batteries

## ELECTRICAL SPECIFICATIONS

**RF Operating Voltage Range:** 3.3 VDC

**RF Maximum Current Draw:** 5 mA (LED On)

**AV Operating Voltage Range:** 12 VDC

**AV Maximum Standby Current:** 6.5 mA

**AV Maximum Alarm Current:** 550 mA

**Standby Current:** 210 µA @ 3.3 VDC (LED blink enabled)

**Maximum Transmit RF Power:** 17 dBm

**Radio Frequency Range:** 902-928 MHz

**Operating Humidity Range:** 10% to 93% Relative Humidity, Non-condensing

**Operating Temperature Range:** 32°F to 120°F (0°C to 49°C)

**Battery Type:** 8 Panasonic® CR123A or 8 Duracell® DL123A

**Battery Life:** RF batteries: 2 year minimum.  
AV batteries: See Table 2 for AV battery life.

**Battery Replacement:** Replace during annual maintenance or when TROUBLE BATTERY LOW displays.

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Country of origin: Mexico

BATTERY LIFE AT TEMPORAL 3, AMBIENT CONDITIONS											
Model	Model Type	Battery Life (Minutes), per Candela Setting									
		Minutes at 15 cd	Minutes at 30 cd	Minutes at 75 cd	Minutes at 95 cd	Minutes at 110 cd	Minutes at 115 cd	Minutes at 135 cd	Minutes at 150 cd	Minutes at 177 cd	Minutes at 185 cd
Strobe-only	Ceiling	1305	849	482	399	—	339	—	283	237	—
Chime-Strobe	Ceiling	1115	764	461	388	—	324	—	269	225	—
Horn-Strobe	Ceiling	754	594	374	324	—	286	—	247	211	—

## COMPATIBLE EQUIPMENT

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

**W-BATCART:** Wireless battery cartridge 10-pack

**WAV-CRL:** Wireless AV base, ceiling, red

**WAV-CWL:** Wireless AV base, ceiling, white

**W-SYNC:** Wireless sync module

## STANDARDS

The WAV-CRL and WAV-CWL is designed to comply with the following standards:

UL 864 9th Edition and 10th edition

NFPA 72

## AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL Listed: S3705, Vol.2

FM Approved: 3062564

CSFM: 7300-1653:0513

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