

## SWIFT Wireless AV Base

### General

The **NOTIFIER SWIFT**<sup>®</sup> AV bases **WAV-CRL, WAV-CWL, WAV-RL, and WAV-WL** 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 AV base boosts output voltage to support 24 VDC options on connected devices.

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 24 V 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 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.

### Features

- 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, CAN/ULC S525, CAN/ULC S526, and CSA C22.2 No. 205
- Frequency hopping
- Bi-Directional Communications



*SWIFT Wireless AV Bases  
(Round ceiling-mount and rectangular wall-mount,  
shown with and without installed devices)*

## Compatible Equipment

Note: ULC-listed models have all required languages.

| Model (UL listed) | Model (ULC listed) | Description                            |
|-------------------|--------------------|--|
| CHRL              | CHRLA*             | Chime Red Wall                         |
| 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     |
| CHSRL             | CHSRLA*            | Chime Strobe Red Wall                  |
|                   | CHSRLA-E           | Chime/Strobe Red Wall, English         |
|                   | CHSRLA-F           | Chime/Strobe Red Wall, French          |
| CHSWL             | CHSWLA             | Chime Strobe White Wall                |
|                   | CHSWLA-E           | Chime/Strobe White Wall, English       |
|                   | CHSWLA-F           | Chime/Strobe White Wall, French        |
| CHWL              | CHWLA              | Chime White Wall                       |
| HCRL-LF           | HCRLA-LF*          | 520Hz Sounder Red Ceiling              |
| HRL               | HRLA               | Horn Red Wall                          |
| HRL-LF            | HRLA-LF*           | 520Hz Sounder Red Wall                 |
| HCWL-LF           | HCWLA-LF*          | 520Hz Sounder White Ceiling            |
| HWL               | HWLA               | Horn White Wall                        |
| HWL-LF            | HWLA-LF*           | 520Hz Sounder White Wall               |
| P2RL              | P2RLA*             | Horn/Strobe 2-wire Red Wall            |
|                   | P2RLA-E            | Horn/Strobe 2-wire Red Wall, English   |
|                   | P2RLA-F            | Horn/Strobe 2-wire Red Wall, French    |
| P2RL-LF           | P2RLA-LF*          | 520Hz Sounder/Strobe Red Wall          |
| P2RL-P            | P2RLA-P            | Horn Strobe 2-wire Red Wall, Plain     |
| P2RL-SP           | —                  | Horn Strobe 2-wire Red Wall, Fuego     |
| P2WL              | P2WLA              | Horn Strobe 2-wire White Wall          |
|                   | P2WLA-E            | Horn/Strobe 2-wire White Wall, English |
|                   | P2WLA-F            | Horn/Strobe 2-wire White Wall, French  |

| Model (UL listed) | Model (ULC listed) | Description                               |
|-------------------|--------------------|---|
| P2WL-LF           | P2WLA-LF*          | 520Hz Sounder/Strobe White Wall           |
| P2WL-P            | P2WLA-P            | Horn Strobe 2-wire White Wall, Plain      |
| P2WL-SP           | —                  | Horn Strobe 2-wire White Wall, Fuego      |
| 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     |
| SRL               | SRLA*              | Strobe Red Wall                           |
|                   | SRLA-E             | Strobe Red Wall, English                  |
|                   | SRLA-F             | Strobe Red Wall, French                   |
| SRL-P             | SRLA-P             | Strobe Red Wall, Plain                    |
| SRL-SP            | —                  | Strobe Red Wall, Fuego                    |
| SWL               | SWLA*              | Strobe White Wall                         |
|                   | SWLA-E             | Strobe White Wall, English                |
|                   | SWLA-F             | Strobe White Wall, French                 |
| SWL-ALERT         | —                  | Strobe White Wall, Amber Lens             |
| SWL-CLR-ALERT     | —                  | Strobe White Wall, Clear Lens             |
| SWL-P             | SWLA-P             | Strobe White Wall, Plain                  |

\*Bilingual Canadian model

## AV BATTERY LIFE: TEMPORAL 3, AMBIENT CONDITIONS

| AV 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 |
| Chime-only  | Wall       | 127h 23m                                    | —                | —                | —                | —                 | —                 | —                 | —                 | —                 | —                 |
|   | Ceiling    | —   | —                | —                | —                | —                 | —                 | —                 | —                 | —                 | —                 |
| Horn-only   | Wall       | 31h 51m                                     | —                | —                | —                | —                 | —                 | —                 | —                 | —                 | —                 |
|   | Ceiling    | —   | —                | —                | —                | —                 | —                 | —                 | —                 | —                 | —                 |
| Strobe-only                                       | Wall       | 20h 44m                                     | 14h 09m          | 8h 20m           | 7h 22m           | 6h 02m            | —                 | 5h 11m            | —                 | —                 | 4h 01m            |
|   | Ceiling    | 21h 45m                                     | 14h 09m          | 8h 02m           | 6h 39m           | —                 | 5h 39m            | —                 | 4h 43m            | 3h 57m            | —                 |
| Chime-Strobe                                      | Wall       | 18h 12m                                     | 12h 55m          | 7h 58m           | 6h 31m           | 5h 18m            | —                 | 4h 26m            | —                 | —                 | 3h 37m            |
|   | Ceiling    | 18h 35m                                     | 12h 44m          | 7h 41m           | 6h 28m           | —                 | 5h 24m            | —                 | 4h 29m            | 3h 45m            | —                 |
| Horn-Strobe                                       | Wall       | 16h 31m                                     | 12h 03m          | 7h 22m           | 6h 17m           | 5h 30m            | —                 | 4h 33m            | —                 | —                 | 3h 38m            |
|   | Ceiling    | 12h 34m                                     | 9h 54m           | 6h 14m           | 5h 24m           | —                 | 4h 46m            | —                 | 4h 07m            | 3h 31m            | —                 |
| Low-Freq. Sounder-Only                            | Wall       | 8h 15m                                      | —                | —                | —                | —                 | —                 | —                 | —                 | —                 | —                 |
|   | Ceiling    | 8h 15m                                      | —                | —                | —                | —                 | —                 | —                 | —                 | —                 | —                 |
| Low-Freq. Sounder-Strobe                          | Wall       | —   | 9h 6m            | 7h 45m           | 5h 39m           | 4h 56m            | 4h 54m            | —                 | 4h 12m            | —                 | —                 |

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

## Ordering Information

- **WAV-CRL:** Wireless AV base, ceiling, red
- **WAV-CWL:** Wireless AV base, ceiling, white
- **WAV-RL\*:** Wireless AV base, wall, red
- **WAV-WL\*:** Wireless AV base, wall, white

**\*NOTE:** WAV-RL & WAV-WL are compatible with wall-mount L-Series devices manufactured after 26 April 2019 (date code 9045 and later). WAV-CRL and WAV-CWL are compatible with all ceiling-mount L-Series devices.

- **FWSG(A):** FlashScan Wireless SWIFT Gateway - 1 SWIFT Gateway is required for each wireless mesh, and supports up to 49 SWIFT detectors or modules. Order FWSSA for ULC applications. See DN-60820 for other components available for use with the SWIFT Gateway.
- **SMB500-WH:** White surface mount back box
- **W-BATCART:** Wireless battery cartridge 10-pack

## Physical/Operating Specifications

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

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

**Dimensions (Wall):** Height 6" (15 cm); Width 5.1" (13 cm); Depth 1.6" (4 cm)

**Weight (Wall):** 17.6 oz (499 g) installed with 8 batteries

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

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

## Electrical Specifications

**RF Operating Voltage Range:** 3.3 VDC

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

**RF Operating Voltage:** 12 VDC

**AV Output, Operating Voltage:** 24 VDC (nominal)

**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

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

**Battery Life:** RF batteries: 2 year minimum. AV batteries: See Battery Life table.

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

## Agency Listings and Approvals

The file number(s) below reference the specific listings for the equipment 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/ULC Listed:** S4011
- **FM Approved:** 3062564
- **CSFM:** 7300-1653:0513

## Standards

The SWIFT Wireless AV Base comply with the following standards:

- UL 864 9th Edition and 10th edition
- CAN/ULC S525 and S526
- CSA: C22.2 No.205
- NFPA 72
- UL464, CAN/ULC-S525 (Horns and Chimes)
- UL1971
- UL1638, CAN/ULC-S526 (Strobes)



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.

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Country of Origin: Mexico

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