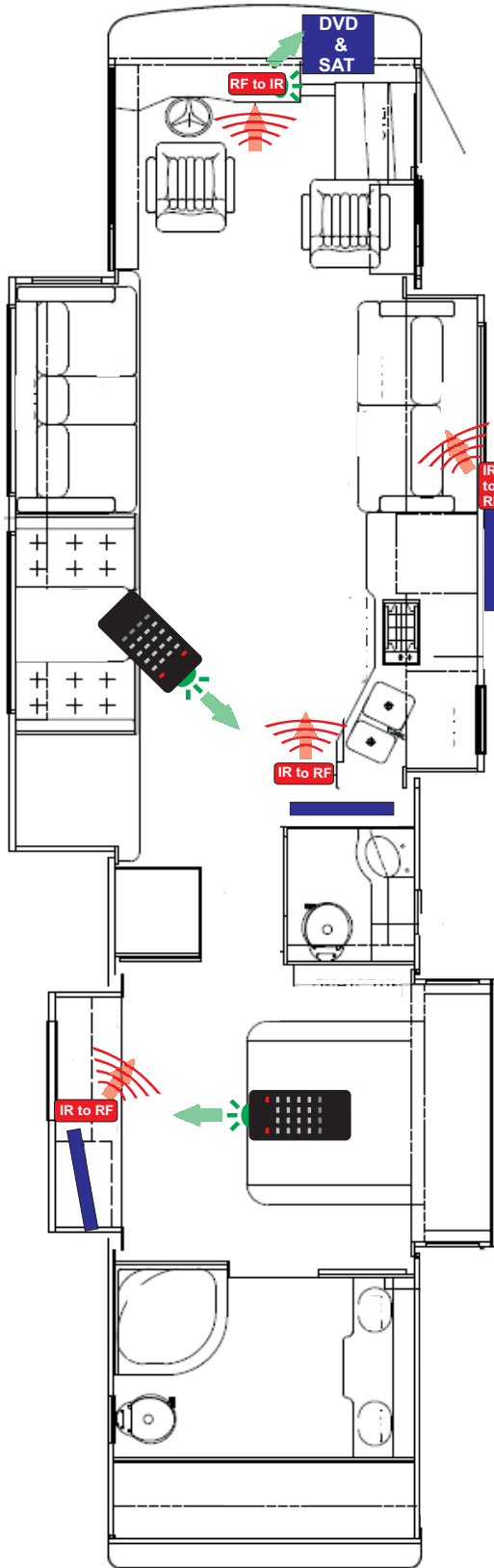




Spyder Controls Corporation

Defining Innovation and Reliability in System Control

USER MANUAL FOR: 'WIRE1' WIRELESS INFRA-RED (IR) REPEATER SYSTEM



DESCRIPTION: The wireless IR Repeater system allows Infra-Red (IR) signals from Audio / Video (A/V) remote controls to be received in one location and wirelessly transmitted to another location, where the IR signal is then re-emitted. The system uses proven Radio Frequency (RF) technology that is used in numerous automotive security / alarm systems, ensuring reliable operation.

BENEFITS:

-COST EFFECTIVE - Similar or less cost than conventional 'wired' IR Repeater systems

-WIRE REDUCTION - Wiring and connector blocks between the IR Receivers and the IR Emitters is completely eliminated

-SIMPLIFIED INSTALLATION - With over 50% of the wiring and connections removed completely

-NO CROSSTALK ISSUES - A built-in signal filtering system eliminates IR crosstalk where multiple IR receivers are located in the same area



WIRE1 User Manual

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Operational Voltage Range: 5 to 16 VDC

MODEL: WIRE1

RF Characteristics:

FCC ID: OV9-WIRE1

IC: 10245A-WIRE1

- ISM band: 900MHz;
- Base frequency: 903MHz;
- Channel spacing: 199.951172MHz;
- Over-the-air data rate: 249.756 Kbs;
- TX power: 0 dBm;
- Number of channels: 52.

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Statement:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

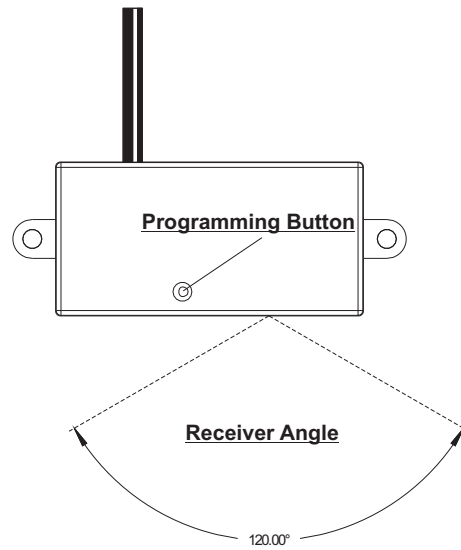
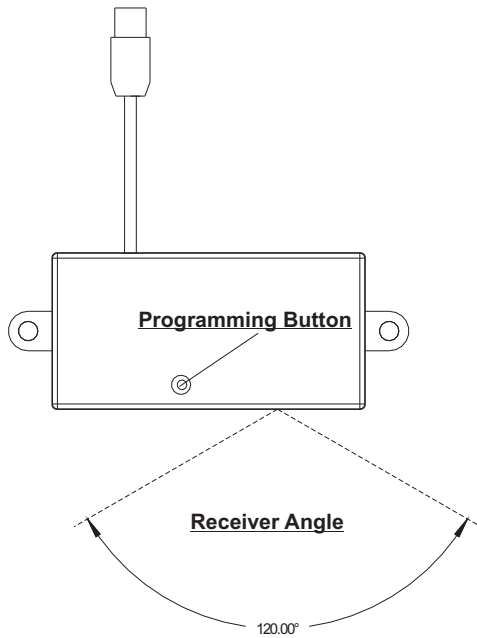
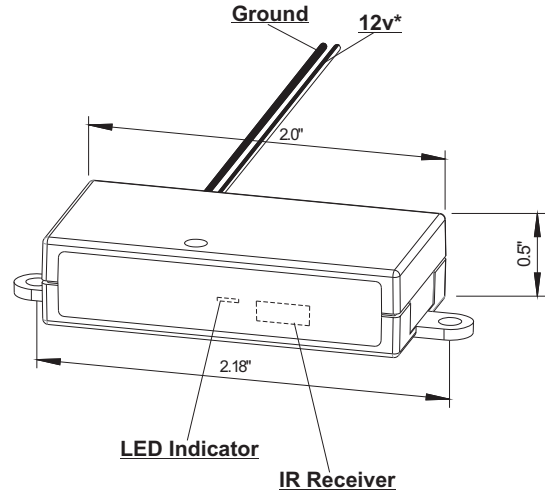
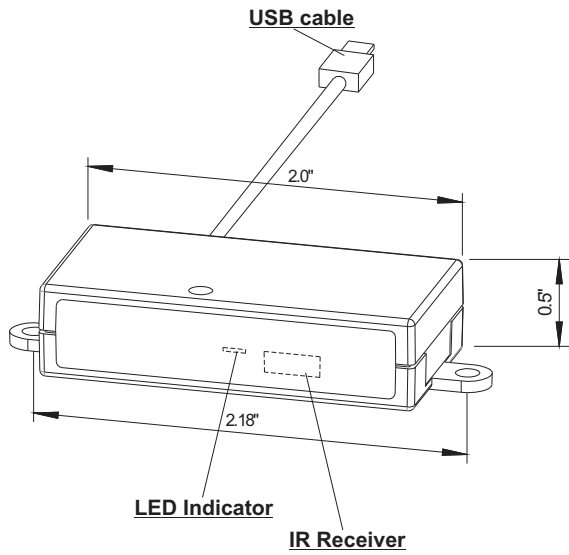
Cet appareil est conforme la norme d'Industrie Canada exempts de license RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne peut pas provoquer d'interférences, et (2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de la appareil.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

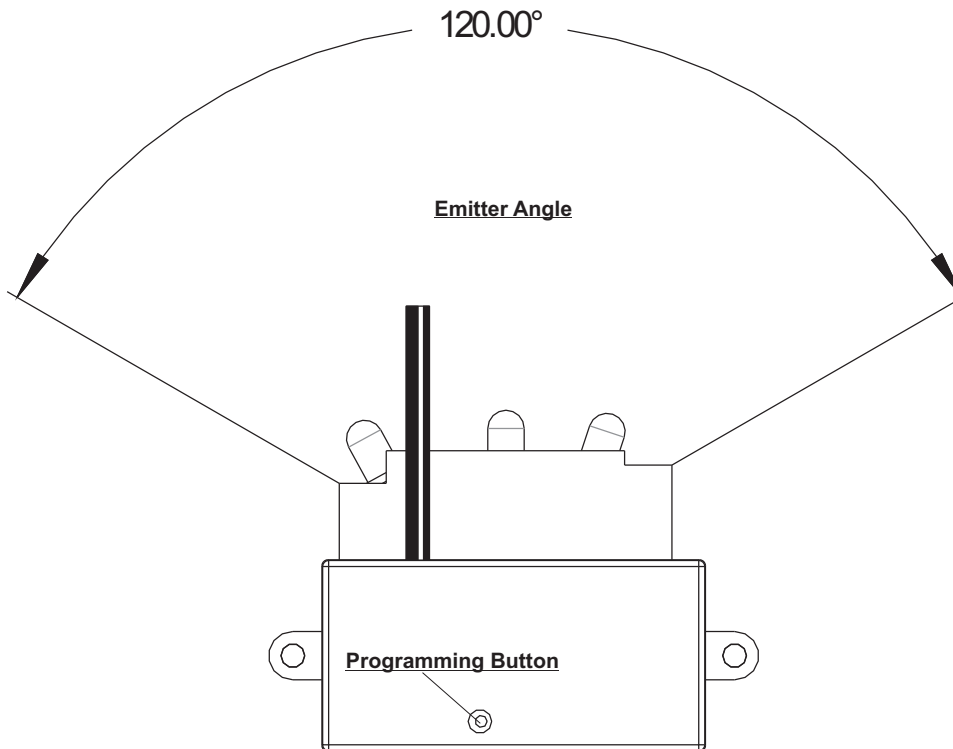
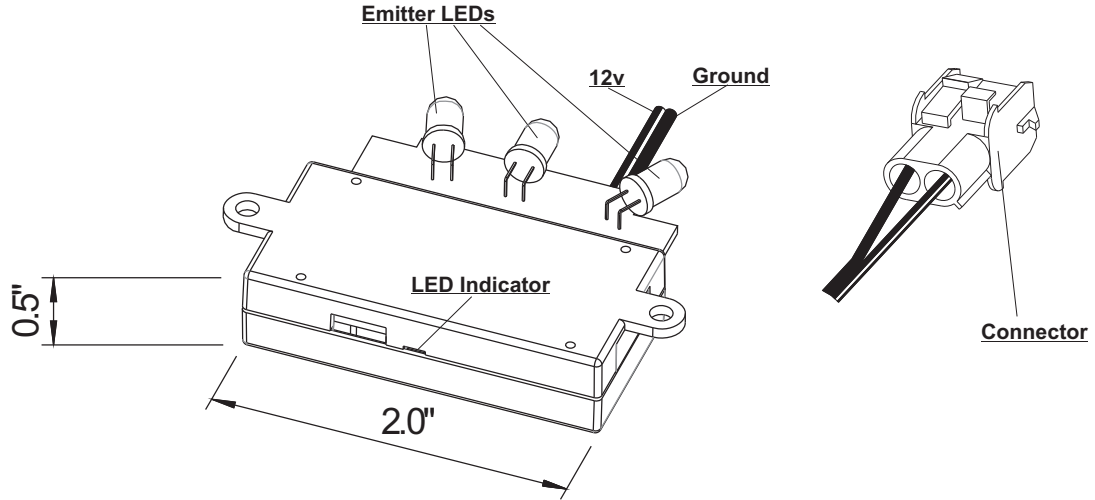


WIRe Repeater (Receiver)





wlRe Repeater (Emitter)



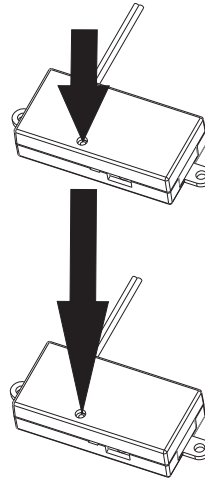


WIRE Channel Settings

Action	WIRE Response	Indicator
Quick press* (once)	1. Enter the Transmit Learning Codes (TLC) state 2. Transmit "learn" packets 2 times per second	LED flashes slow (1 time per second 1/4s ON, 3/4s OFF)
Long press*	1. Increment RF channel 2. Returns to TLC state	LED is ON for 1 sec
Quick press (once)	1. Exit from TLC mode 2. Entering Main Operation mode	LED stops flashing
2 Quick presses	1. Enter Listening Mode 2. Device 'listens' for an RF signal**. 3. Once an RF signal is received, the device learns (memorizes) that channel. 4. Device will automatically exit Listening Mode and resume normal operation.	LED flashes FAST (2 times per second, 1/4s ON, 1/4s OFF)
2 Quick presses (while in Listening Mode)	1. Manually exit from Listening Mode 2. Revert to the channel it was on before this learning cycle started	LED stops flashing

* Quick button press would be one that was for less than 1/2 second.

* Long button press would be one that was for about 1 second.



Note:

When in Listening Mode, a WIRE will only act on learn packets that contain its traffic-type byte.

**The wIRe devices operate on 52 unique channels. When a wIRe device enters Learning Mode, it begins with the existing channel stored in memory and 'listens' for a matching RF signal for 1 second. If no matching signal is received within 1 second, the wIRe device increments up to the next channel and listens for 1 second and so on until a matching RF signal is received. It can take up to 52 seconds for a wIRe device to find a matching signal and learn / memorize it.