

## Data Sheet

# SaphIR™ Tabletop Infrared Receivers

854, 854P



**SaphIR 854**  
CFL friendly



**SaphIR 854P**  
CFL and plasma friendly

The SaphIR 854 and 854P are compact tabletop infrared receivers that accept signals from a wide variety of IR remote controls. Typically used for controlling components hidden in a media cabinet or located in another room, they relay IR signals to the equipment through a connecting block and IR emitters.

Each model plugs directly into a local IR connecting block like the Russound 857 or a remote interface such as the Russound IRB-1 in-wall connecting plate. The attached 1/8" (3.5mm) stereo miniplug allows for quick and easy connection to the IR receiver jack in either case.

The stylish, unobtrusive design of the receiver allows it to be placed on top of a TV or equipment shelf. A nonskid base keeps the unit in place to ensure stable reception. Each model has a blue talkback LED that provides immediate confirmation upon receiving an IR signal.

Both models feature wideband infrared sensitivity, wide-angle reception, extended pickup range and excellent rejection of noise from IR sources like compact fluorescent lights. A built-in automatic gain control circuit significantly reduces interference problems for reliable performance.

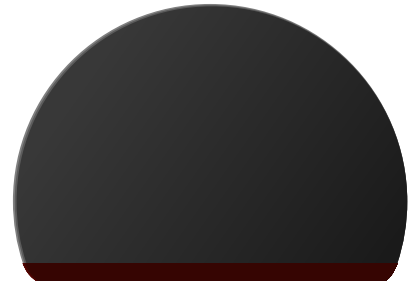
The SaphIR 854P has an additional optical filter that virtually eliminates interference from plasma TV displays, sunlight, and other sources of IR noise. This model's greatly improved filtering makes it ideal for use in home theater applications where plasma or LCD TVs are used.

Each tabletop model employs Russound's own microcontroller-based IR filtering circuit to block interference and allow seamless control of audio-video components.

## Specifications

### SaphIR 854

Receive IR frequency range:	36 kHz–58 kHz
Transmit IR frequencies:	40 kHz and 56 kHz
Range on axis:	55–80 feet (16.8–24.4 m)
Range 30° off axis:	30–55 feet (9.1–16.8 m)
Sensitivity adjustment:	Automatic gain control
Interference rejection:	CFL
Cord length:	6.8 feet (2 m)
Connector type:	⅜" (3.5 mm) TRS miniplug
Connector polarity:	Tip = signal Ring = ground Sleeve = +12 VDC
Power requirement:	12 VDC 31 mA max
Dimensions:	2.125" W x 0.688" H x 1.5" D (54 mm x 17.5 mm x 38.1 mm)
Finish:	Black



### SaphIR 854P

Receive IR frequency range:	36 kHz–58 kHz
Transmit IR frequencies:	40 kHz and 56 kHz
Range on axis:	40–50 feet (12.2–15.2 m)
Range 30° off axis:	5–20 feet (1.5–6.1 m)
Sensitivity adjustment:	Automatic gain control
Interference rejection:	CFL and plasma
Cord length:	6.8 feet (2 m)
Connector type:	⅜" (3.5 mm) TRS miniplug
Connector polarity:	Tip = signal Ring = ground Sleeve = +12 VDC
Power requirement:	12 VDC 31 mA max
Dimensions:	2.125" W x 0.688" H x 1.625" D (54 mm x 17.5 mm x 41.3 mm)
Finish:	Black



## Accessories

**AW2260AB** 4-conductor, 22-gauge, 2-twisted-pair shielded signal cable

**SaphIR 857** IR Connecting Block

**SaphIR IRB-1** In-Wall IR Connecting Plate

**846C** 12 VDC 300 mA power adapter

## Limited Warranty

The Russound SaphIR 854 and 854P are fully guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

Since 1967, innovation, quality and reliability have been the core of the Russound product tradition. Today, Russound offers everything for enjoying multiroom audio-video in your home. All distributed audio-video solutions are built to high standards and designed with the unique consideration of making products that are a pleasure to live with and enjoy.

**Russound** 5 Forbes Road, Newmarket, New Hampshire 03857 USA 603.659.5170 [www.russound.com](http://www.russound.com)

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