

DIR54 Digital Infrared System Connection Block Specifications:

Specifications

Infrared carrier frequency: 30-60kHz
Transmission wire maximum length: 1000' (300m)
Emitter wire requirements: two conductor, minimum 24 gauge to 200', 22 gauge up to 500' 20 gauge to 1000'
Receiver wire requirements: two conductor, minimum 24 gauge to 200', 22 gauge up to 500' 20 gauge to 1000'
Power requirements: Unregulated 12VDC, 200mA (up to 6 Knoll digital infrared receivers) or 500 mA (up to 12 Knoll digital infrared receivers).
Dimensions: 1-3/4" x 4" x 1" (45mm x 102mm x 26mm)

Requires 12VDC power supply, emitter(s) and Knoll digital infrared receiver(s).

Warranty

Knoll Systems warrants its products sold in the USA and Canada by authorized Knoll dealers to be free of defects in materials and workmanship. This warranty extends for three full years from the date of purchase by the original consumer. Any products returned to Knoll Systems and found to be defective by Knoll Systems within the warranty period will be repaired or replaced at Knoll Systems option, at no charge. Knoll Systems will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state to state.

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DIR54

Digital Infrared System
Connection Block Instructions v1.1



Warning: To be installed and/or used in accordance with appropriate electrical codes and regulations.

Introduction: Thank you for your purchase of a Knoll DIR54 digital connection block. This connection block is designed to be used with up to twelve Knoll digital infrared receivers and is not compatible with other infrared receivers or targets. Up to four single and/or dual infrared emitters can be connected to the DIR54. A 12 VDC unregulated power supply such as the Knoll PS1202 (200 mA) or PS1205 (500 mA) is required to power the digital infrared system.

Features:

- Decora® style block available in white, ivory, almond and black colors.
- Digital processor included for connection to up to four single and/or dual emitters.
- Will relay almost all remote control types (except some B & O and Pioneer Elite models).
- Up to 12 Knoll digital infrared receivers can be connected to the DIR54 connection block.
- Requires very little power. Suggest using 12 vdc power supply PS1202 (up to 6 Knoll digital infrared receivers) or PS1205 (up to 12 Knoll digital infrared receivers).

Installation Tips

1. Follow all local electrical & building code requirements.
2. The DIR54 is usually mounted in the wall behind the source equipment (receiver, CD player etc.). The system requires up to 12 Knoll digital infrared receivers (can be mixed or matched), up to four single or dual emitters, an unregulated 12 VDC power supply and this DIR54 connection block.
3. The two conductor emitter wires can be extended up to 1000'. Wires can be solid or stranded, shielded or unshielded with a minimum of 28 gauge for runs under 200', 22 gauge for runs under 500' and 20 gauge for runs up to 1000'.
4. The three conductor wires to the receivers can be extended up to 1000'. Wires can be solid or stranded, shielded or unshielded with a minimum of 28 gauge for runs under 200', 22 gauge for runs under 500' and 20 gauge for runs up to 1000'.
5. Plug in the single or dual emitter(s) into any of the four 3.5 mm jack ports. If you are going to extend the emitter wire, carefully observe polarity.

6. Connect the up to twelve Knoll digital infrared receivers into the detachable three-position connector with the wires in parallel. Again polarity is very important.
7. Plug in the PS1202 or other unregulated 12 VDC power supply and the digital infrared system should be ready to go.
8. The infrared system is usually left plugged in all the time (to an unswitched outlet) as it uses very little power.
9. Test the digital infrared system to see if it is working properly. If it works only from a very close range or it does not work at all, first mark where the pot adjustment is on the DIR54 blue color pot on the rear of the DIR54. This is so you can reset it to that starting point again. Try adjusting the pot on the connection block very slightly left and right as you are testing the receiver with the remote control. This may require two people. Adjust it until the maximum distance from the remote control to the Knoll digital infrared receiver is achieved. This should correct for the problem. If it still does not work properly, please call Knoll Systems and ask for infrared technical support at 1-800-566-5579. The help line is open from 7:30 a.m. to 5:00 p.m. Monday to Friday Pacific time.

