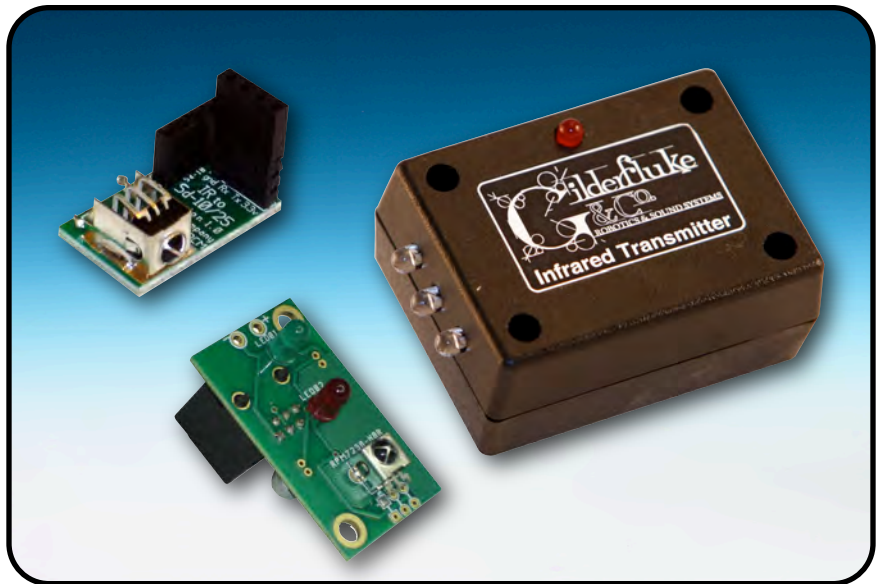# IR-Tx, IR-Rx & Sd-IR/Rx
InfraRed Transmitter & Receivers

On applications where a **Sd-10**, **Sd-25**, **Sd-50/08**, **Sd-50/40,** or **Br-Brain4** is mounted on a vehicle, wiring control signals to them is usually impractical. An InfraRed link can be used to request and play specific shows and messages through the serial port without any wires. It can be used on trains, dark rides, monorails, trams, subways, rollercoasters, and a variety of mass transit systems. When used on vehicles which are used on different routes, the appropriate messages will be selected and played automatically.

Our **Sd-10**, **Sd-25**, **Sd-50/08**, **Sd-50/40,** or **Br-Brain4** have a settings to support the **IR Link**. These filter the data from the **IR link** before it actually starts a show or plays a sound to avoid false triggers.

In applications where all you need to do is trigger messages sequentially (not randomly) the IR Link would be overkill. Standard rollover switches, pressure mats or optical sensors should be used: Our **IR-Passive** is a passive infrared motion detector. The **IR-Thru** and **IR-Retro** are through beam and retroreflective infrared beam-break sensors.
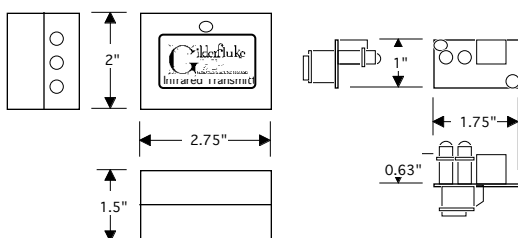
Features of the Ir-Tx include:
- Each transmitter can be set to continuously send requests for a specific single show or message.
- Transmitters are placed along the path of the vehicle at each point where a different message is to be played. When the vehicle enters the range of the IR transmission, it will select and play the appropriate message. Transmitters can be placed along both sides of a track where different messages are needed for vehicles traveling in each direction.
- Three high output IR diodes give the transmitter a line of sight range of approximately 20 feet indoors.
- Dipswitch settings allow you to transmit requests for any one of 255 different messages.
- Messages can be temporarily disabled by removing power from the appropriate transmitters.
- Comes complete with universal input wall-mounted power supply.

Features of the IR-Rx Receiver include:
- RJ-12 connector output for direct connection to all Gilderfluke & Company RS-422 serial ports.
- Runs from any nine to twenty-four vdc source of power. This can usually be 'borrowed' from the repeater.

Features of the Sd-IR/Rx Receiver include:
- Mounts right inside a **Sd-10** or **Sd-25** for triggering SoundFiles from an **IR-Tx**. **Sd-10s** require upgraded firmware to use the **Sd-IR/Rx**.

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