

**NAME**

**irsend** - basic LIRC program to send infra-red commands

**SYNOPSIS**

```
irsend [options] send_once <remote> <code> [code...]
irsend [options] send_start <remote> <code>
irsend [options] send_stop <remote> <code>
irsend [options] list <remote> <code>
irsend [options] set_transmitters <num> [num...]
irsend [options] simulate <button press packet>
```

**DESCRIPTION**

Asks the **lircd** daemon to send one or more CIR (Consumer Infra-Red) commands. This is intended for remote control of electronic devices such as TV boxes, HiFi sets, etc.

**irsend** supports six sub-commands:

```
send_once    - send one or more code(s) once
send_start  - start repeating a code.
send_stop   - stop repeating code.
list        - list configured remote items
set_transmitters - set active transmitters
simulate    - simulate IR event
```

*remote* is the name of a remote, as described in the **lircd** configuration file.

*code* is the name of a remote control key of *remote*, as it appears in the **lircd.conf** configuration file.

*num* is the transmitter number of the hardware device.

For the **list** command, *remote* and/or *code* can be empty:

```
list "" "" - list all configured remote names
list remote "" - list all codes of remote
list remote code - list only code of remote
```

The **simulate** command only works if it has been explicitly enabled in **lircd** using the `--allow-simulate` option. The required *button press packet* should be formatted as a socket broadcast message documented in [lircd\(8\)](#).

**OPTIONS**

```
-h --help
    Display usage summary.

-v --version
    Display version.

-d --device=device
    Use given lircd socket [/var/run/lirc/lircd].

-a --address=host[:port]
    Connect to lircd at this address.

-# --count=n
    Send command n times.
```

**ENVIRONMENT**

**LIRC\_SOCKET\_PATH**

The lircd socket to connect to, defaults to a hardcoded default value `/var/run/lirc/lircd`

**FILES**

`/etc/lirc/lircd.conf`

Default **lircd** configuration file. It should contain all the remotes, their infra-red codes and the corresponding timing and waveform details.

## DIAGNOSTICS

If **lircd** is not running (or `/var/run/lirc/lircd` lacks write permissions) **irsend** aborts with the following diagnostics:

"irsend: could not connect to socket"

"irsend: Connection refused" (or "Permission denied").

## EXAMPLES

```
irsend LIST DenonTuner ""
irsend SEND_ONCE DenonTuner PROG-SCAN
irsend SEND_ONCE OnkyoAmpli VOL-UP VOL-UP VOL-UP VOL-UP
irsend SEND_START OnkyoAmpli VOL-DOWN ; sleep 3
irsend SEND_STOP OnkyoAmpli VOL-DOWN
irsend SET_TRANSMITTERS 1
irsend SET_TRANSMITTERS 1 3 4
irsend SIMULATE "000000000000476 00 OK TECHNISAT_ST3004S"
```

## DRIVER LOADING

Drivers are loaded dynamically. The directory used for this is determined by (falling priority):

- The environment variable `LIRC_PLUGINDIR`.
- The 'plugindir' entry in the `[lircd]` section of the `lirc_options.conf` file.
- A hardcoded default (`/usr/lib/arm-linux-gnueabi/hf/lirc/plugins`).

## SEE ALSO

[lircd\(8\)](#),  
[mode2\(1\)](#),  
[xmode2\(1\)](#),  
[irrecord\(1\)](#),  
[irw\(1\)](#)