

Intro



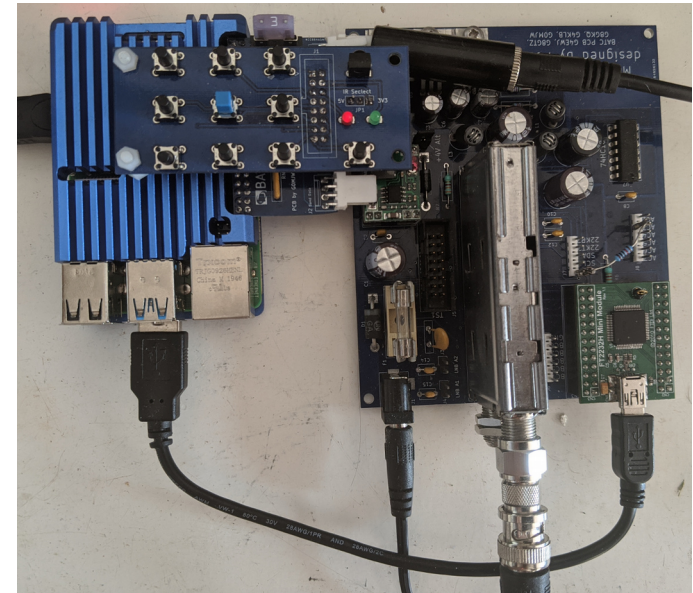
Tim
MWORUD

Ryde

- What is Ryde
- What is new
- What is coming soon
- What is coming later
- Config files

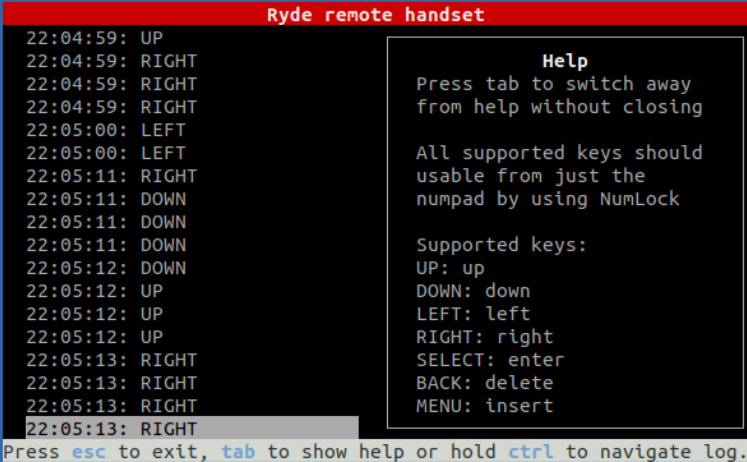
What is Ryde

- Set top box
- Will do “non standard” narrow bandwidths and codecs
- Gives quick access to frequency and bandwidth controls
- Built out of Raspberry Pi and a BATC compatible USB tuner
- No computer required to use
- Useful for repeater inputs, shack displays, repeater/satellite monitoring, etc



What is new

- On Screen Display went live
- Network Control
- Ryde utils and network handset
- FTDI config util
- Lots of small fixes
- Knucker



```
Ryde remote handset
22:04:59: UP
22:04:59: RIGHT
22:04:59: RIGHT
22:04:59: RIGHT
22:05:00: LEFT
22:05:00: LEFT
22:05:11: RIGHT
22:05:11: DOWN
22:05:11: DOWN
22:05:12: DOWN
22:05:12: UP
22:05:12: UP
22:05:12: UP
22:05:13: RIGHT
22:05:13: RIGHT
22:05:13: RIGHT
22:05:13: RIGHT
Press esc to exit, tab to show help or hold ctrl to navigate log.

Help
Press tab to switch away
from help without closing

All supported keys should
usable from just the
numpad by using NumLock

Supported keys:
UP: up
DOWN: down
LEFT: left
RIGHT: right
SELECT: enter
BACK: delete
MENU: insert
```

Knucker

- Significant structural changes
- “source” is a new option in bands
- 2 new DVB-T bands by default
- No Service Information



What is coming soon

- Volume control
- GPIO bands
- RF level indication
- Basic HDMI port switching
- Basic CEC

What is coming later

- Stream RX
- On screen user interface improvements
- On screen config
- Better TS handling
- Recording

Thanks to

- Dave (G8GKQ): Ryde Build, Handset Wrangling, Alpha Testing
- Heather (M0HMO) & Phil (M0DNY): Longmynd
- Charles (G4GUO): CombiTunerExpress(Knucker)
- All the testers: Pointing out when I've broken it

What are config files

- Managed by console menu
- Sometimes overwritten by updates
- Manual changes overwritten by console menu
- YAML files
- Indenting with 4 spaces
- Easier to edit on computer
- <https://github.com/eclipse/rydeplayer/blob/master/README.md>

Default File

```
---
configRev: 3
sources:
  LONGMYND:
    binpath: /home/pi/longmynd/longmynd
    mediapath: /home/pi/lmmedia
    statuspath: /home/pi/lmstatus
    ttimeout: 5000
  COMBITUNER:
    binpath: /home/pi/dvbt/CombiTunerExpress
    mediapath: /home/pi/ctmedia
bands:
  Q0-100: &bandlnblow
    source: LONGMYND
    lofreq: 9750000
    loside: LOW
    pol: NONE
    port: TOP
    gpoid: 7
  146: &band146
    source: LONGMYND
    lofreq: 0
    loside: SUM
    pol: NONE
    port: BOTTOM
    gpoid: 1
```

- configRev
- sources
- bands
- presets
- default
- ir
- gpio
- osd
- network
- shutdownBehaviour
- debug

Bands & Presets

bands:

Q0-100: `&bandInblow`

source: LONGMYND

lofreq: 9750000

loside: LOW

pol: NONE

port: TOP

gpioid: 7

146T: `&band146T`

source: COMBITUNER

lofreq: 0

loside: SUM

gpioid: 1

presets:

Q0-100_Beacon: `&preset01`

freq: 10491500

sr: 1500

band: `*bandInblow`

Q0-100_Scan: `&preset04`

freq:

- 10498750

- 10499250

sr:

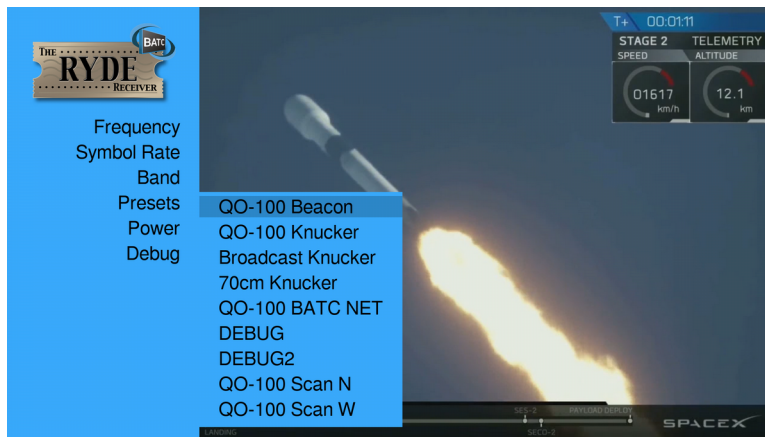
- 333

- 500

band: `*bandInblow`

default: `*preset01`

- Band and preset names can just be changed
- `&` and `*` are references
- Add new bands for transverters etc



Buttons

```
ir:
  repeatFirst: 200
  repeatDelay: 100
  repeatReset: 400
  libraryPath: /home/pi/RydeHandsets/definitions
  handsets:
    - virgin

gpio:
  repeatFirst: 200
  repeatDelay: 100
  rxGood: 4
  buttons:
    POWER: 16
    UP: 14
    DOWN: 27
    LEFT: 22
    RIGHT: 23
    SELECT: 24
    BACK: 25
    MENU: 5
    MUTE: 6
  switches:
    highgoing:
      OSDON: 26
    lowgoing:
      OSDOFF: 26
```

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gpio:
  repeatFirst: 200
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  buttons:
    UP: 14
    DOWN: 27
    LEFT: 22
    RIGHT: 23
    SELECT: 24
    BACK: 25
    MENU: 5
    CHAN+: 6
    CHAN-: 26
  switches:
    highgoing:
      OSDON: 16
    lowgoing:
      OSDOFF: 16
```

- All events valid in all places
- Handset events on front panel

OSD

```
osd:
  timers:
    USERTRIGGER: 10
    PROGRAMTRIGGER: 10
  active:
    MUTE: null
    SIGLEVEL: null
    REPORT: null
    PROGRAM: null
    FREQ: null
    BW: null
  inactive:
    MUTE: null
```

```
osd:
  timers:
    USERTRIGGER: 10
    PROGRAMTRIGGER: 10
  active:
    MUTE: null
    SIGLEVEL: null
    REPORT: null
    PROGRAM: null
    FREQ: null
    BW: null
  inactive:
    MUTE: null
    SIGLEVEL: null
```



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    SIGLEVEL: null
    REPORT: null
    PROGRAM: null
    FREQ: null
    BW: null
  inactive:
    MUTE: null
```

```
osd:
  timers:
    USERTRIGGER: null
    PROGRAMTRIGGER: 10
  active:
    MUTE: null
    SIGLEVEL:
      datum: CC
      x: 0
      y: 0
      w: 1
      h: 1
  inactive:
    MUTE: null
```



The Questions

Any Questions?