



proudly presents...

Hercules



for controlling SSDR FlexRadio by a
«*Hercules DJControl Starlight*»
console for Windows

V.0.9c 20240215



I D4C proudly presents...

SLICE A

SLICE B



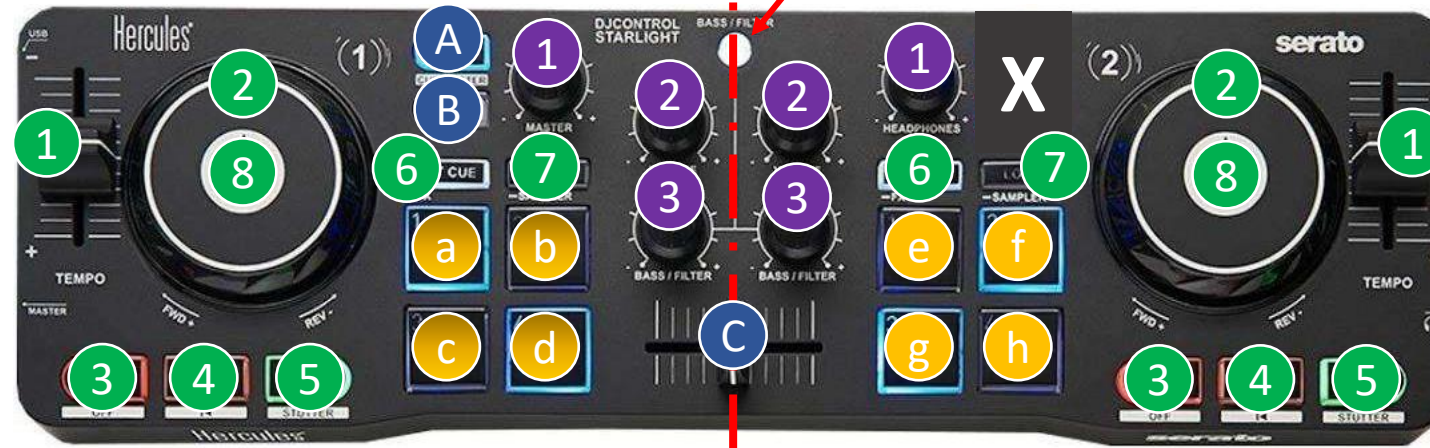


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SLICE A

Switch „on“

SLICE B



- 1- RIT
- 2- Turn for VFO
- 3- PTT Slice X
- 4- RX-A/B Tx Antof-A/B
- 5- Toggle Tx Ant1/2
- 6- Select CueBtns
- 7- Select LoopBtns
- 8- Tap for center in Pan

- Cue-Btns
- a) Mode
 - b) Filter
 - c) PanBW
 - d) Step-Size

- Loop-Btns Sl.A
- a) CWMakro1
 - b) CWMakro2
 - c) CWMakro3
 - d) CWMakro4

- Sl.B
- e) CWMakro5
 - f) CWMakro6
 - g) CWMakro7
 - h) CWMakro8

- 1- AGC-Lev.
- 2- Volume
- 3- Variable Filter

- Global:
- A- MON
 - B- Create SliceSet A | B
 - C- Pan L/R Sl.A/B



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«Switch&Control up to 8 different FlexRadios»

Your flex is in your local network? PERFECT!

You think about portforwarding or DynDns?
FOREGT IT! SECURITY ISSUE!!!

Take a look at zerotier! With Zerotier, you can
have a secure VPN + SmartLink is not needed
(Layer-2 VPN, all is running local)

Questions? Mail us!

Configuration-Mode <marked actors only>

A Press to enter config mode



Preparation Step 1: „Adjust public/globals.json“

1. configs => How many configs shd be mapped (1...8)
 2. default => which one shd be default? Must be less or equal configs!
- Just 1 Flex?** Than just edit config1.json, „configs“ : 1 & „default“ : 1

Step 2: „Edit each public/config<nr>.json

1. Edit each of the config<nr> you want to use.
2. Start with config1.json
3. Next config2.json and so on until <nr> = Globals.configs!!!

What must i edit in a config<nr>.json?

„FlexIP“ : „<ipadress of the flex you want to control>“, e.g. „192.168.0.100“

Should i edit the other properies?

Answer:

NO NO NO NO. If you want to remap
functions to actors, thats done in the
hercules.xlsx. Normally you do not have to
change anything! Screw it up on your own ☺

Up to 8 different radios!

config<nr>.json for each flex => <nr> starting at 1

C - CUE

1,2,3,4

L-Loop

5,6,7,8

After entering configuration mode (base led = PURPLE)
and selecting your config, controller is trying to connect
to the radio. If there is an error, base led will turn RED.

If all went well, it connects and base led will stay GREEN



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«Layer 1 and Layer 2 – Double your controls! »

Select Layer off/Layer 1 & blue/Layer 2

B Press to change layer

ADVANCED



You want more! More! More?

- Maybe you want to have more functions mapped
- Maybe you want to have on mapping for contest, one mapping for dx
- Maybe you enjoy screwing up everything, hi

Layer 1 will use the mapping in sheet „midimap“ of [public/hercules.xlsx](#)

Layer 2 will use the mapping in sheet „midimap2“ of [public/hercules.xlsx](#) (default: same as in Layer 1)

WARNING

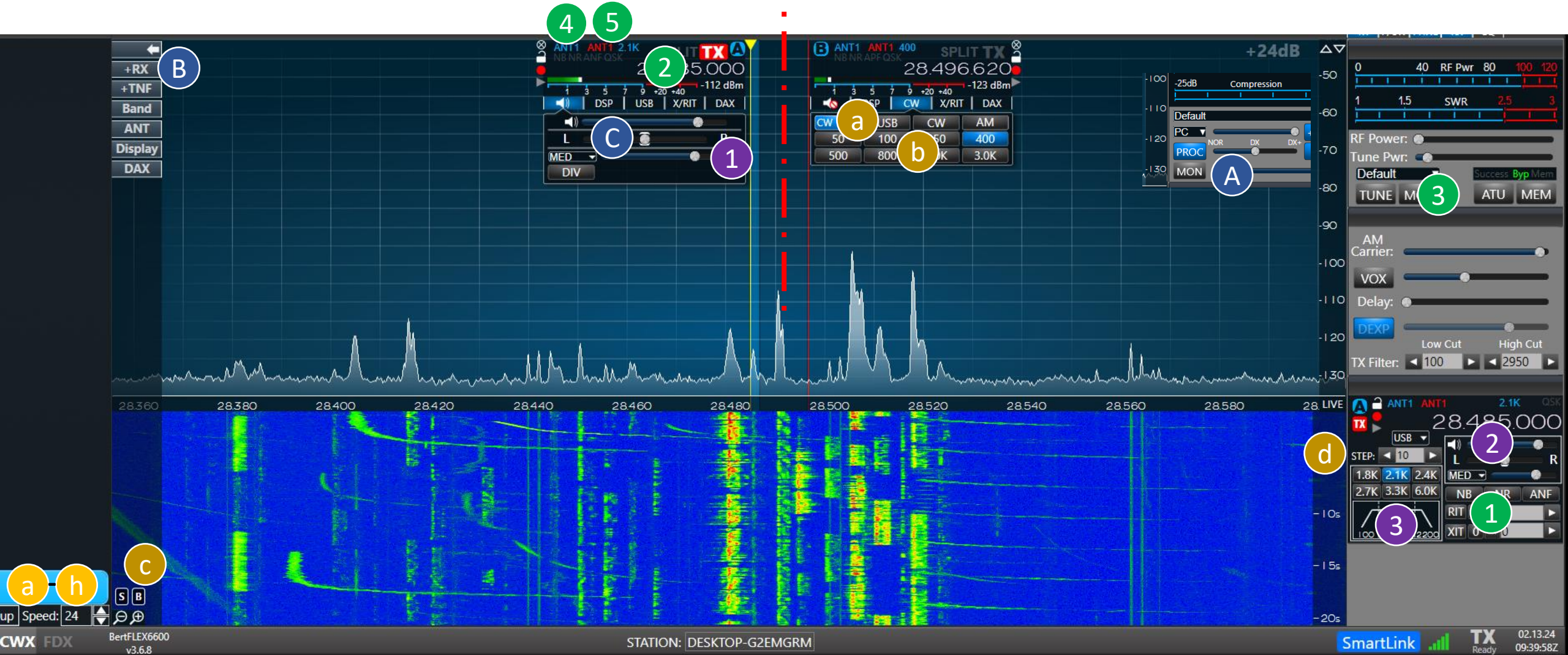
- Keep in mind: Less is more. This is an add on, not an add-everything-is-possible thing :P
- Not every function can be remapped to everything, especially if it's coming down for led-btns-states
- Best practice: reduce complexity, but extend to 2 layers.
- Having less used or new functionality makes more sense to have on layer2
- We learn from you: Request new functionality and it might show up soon ☺



I D4C proudly presents...

SLICE A

SLICE B





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«public/global.json »

```
{  
  "configs" : 2,  
  "default" : 2  
}
```

"configs" : 2,

"default" : 2

How many config<nr> you want to use.

2 means config1.json+config2.json
3 would be config1, config2 & config3
...
(see config<nr>.json slide)

Which of the config<nr>.json should be set as **default** when starting the software.

In our example:

- config1.json & config2.json are configured.
- config2.json will be default

Name	Datum	Typ
config_flex.PNG	14.02.2024 20:40	PNG-Datei
config1.json	14.02.2024 20:30	JSON-Quelldatei
config2.json	12.02.2024 18:10	JSON-Quelldatei
config3.json	14.02.2024 18:15	JSON-Quelldatei
config4.json	14.02.2024 18:15	JSON-Quelldatei
config5.json	14.02.2024 18:15	JSON-Quelldatei
config6.json	12.02.2024 18:10	JSON-Quelldatei
config7.json	12.02.2024 18:10	JSON-Quelldatei
config8.json	12.02.2024 18:10	JSON-Quelldatei
defaults.json	16.02.2024 13:15	JSON-Quelldatei
global.json	14.02.2024 18:11	JSON-Quelldatei
hercules.xlsx	15.02.2024 13:30	Microsoft Excel-A...
layer.PNG	15.02.2024 13:40	PNG-Datei
menu.PNG	14.02.2024 20:40	PNG-Datei
overview.PNG	14.02.2024 20:40	PNG-Datei
rh.pdf	16.02.2024 10:51	Microsoft Edge P...
xxHercules.PNG	14.02.2024 20:40	PNG-Datei
xxHerculesshop.PNG	12.02.2024 20:25	PNG-Datei



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«public/config<nr>.json »

```
{  
  "FlexIP" : "192.168.0.110",  
  "FlexPort" : 4992,  
  "JogCoolDown" : 100,  
  "MidimapFile" : "hercules.xlsx",  
  "WindowsMidiName" : "DJControl Starlight"  
}
```

This is the (local) IP to your Flex you want to control. More Flex => u need more configs activated and edited! (*)

FlexPort for Kommunikation, default

JogCoolDown = Testvalue JogWheel

Name of the Mapping-Excel u want tu use

Midi-DriverName in your Windows, default

(*) ONLY VALUE YOU MUST CHANGE

Normally nothing to change in other properties

Example:

config1.json => 1st Flex with 192.168.0.110

config2.json => 2nd Flex with 192.168.0.111

....

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«public/defaults.json »

```
{  
  ❶ "CWMakro" : [ "DM5XX", "DM1XX", "DM2XX", "DM3XX", "ur 5nn", "tu"],  
  ❷ "NotValidModes" : [ "AM", "SAM", "FM", "NFM", "DFM"],  
  ❸ "NotValidSteps" : [ 1,1000, 2000,3000],  
  ❹ "CWFilter" : [50,100,250,400,500,800,1000,3000],  
  ❺ "Filter" : [1200,1800,2100,2400,2700,2900,3300,4000,6000],  
  ❻ "PanBW" : [0.005, 0.010, 0.050, 0.100, 0.250]  
}
```

- ❶ up to 8 CW-Msg (mapped to Loop a,b,c,d + e,f,g,h) (*) **CHANGE THEM**
- ❷ not valid modes for CUE-a
- ❸ not valid step size for CUE-d
- ❹ valid CW-Filter BW for CUE-b
- ❺ valid Filter BW for CUE-b
- ❻ valid Pan BW for CUE-c
- (*) comma separated "DM5XX " – up to 8 strings.

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«public/hercules.xlsx »

①

mapped function

②

mode grp-#

③

Controller
Midi-Definition

ID

rit	0	0
vfo	0	0
vfo	0	0
	0	0
xmit	3	1
toggleRXANT	2	1
toggleTXANT	2	1
monitor	1	0
setdefault	2	0
	0	0
	0	0
modes	2	0
filters	2	0
panBW	1	0
steps	2	0
cxwLoopBtnL	2	2
cxwLoopBtnL	2	2
cxwLoopBtnL	2	2
cxwLoopBtnL	2	2
agc	0	0
volume	0	0
freeFilter	0	0
rit	0	0
vfo	0	0

midimap

midimap2

functions

Legend

+

:

<

Layer 1 - Layer 2

- ① mapped function for this actor
- ② Led-BTN-mode:
0 = no btn/not set
1 = Led normal on/off
2 = Led stays on f. 0.5s, than off
3 = Led stays on as long as pressed
- ③ Grouped actors
0 = no group
1,2,3... = same group
Group: Only 1 can be „on“.
- ④ Config-Sheet for each Layer:
midimap = Layer 1
midimap2 = Layer 2
- ⑤ Valid functions to map, more info

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