

QO-100 Web SDR for Linux

Setup

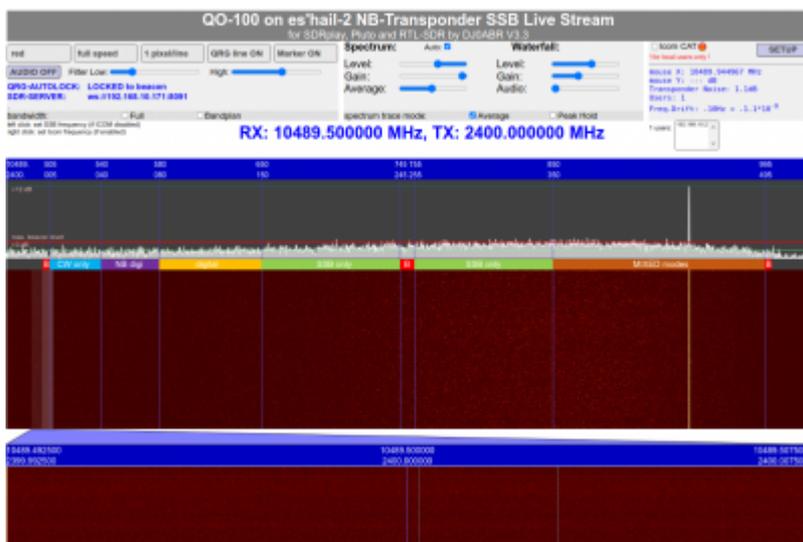
if installation and program start was done successfully, the WebSDR is running now, but it has to be configured to see QO100.

To do this, open this URL in the home network with a WebBrowser:

```
http://IPLinuxComputer/nb.html  
so for example:  
http://192.168.1.55/nb.html
```

the easiest way to find out the IP address of the Linux computer is on the Linux computer itself by typing in the terminal: ip a

Web-Oberfläche



at first you only see an empty spectrum. To set it up, click the **SETUP** button in the upper right corner and this window will open:

General Settings:		
Callsign:	<input type="text" value="CALLSIGN"/>	callsign of this WebSDR station
TCP port for SDR data:		for external access: open this TCP port in the INET router. SSB=8091, DATV=8090.
allow remote control	<input type="button" value="ON (INET access allowed)"/>	access restrictions for SETUP and other system related settings
LNB:		
LNB original crystal [MHz]:	<input type="text" value="25"/>	25 or 27 MHz
LNB reference frequency [Hz]:	<input type="text" value="25000000"/>	real LNB's reference frequency in Hz
additional Downmixer (narrow band version only):		
output frequency [MHz]:	<input type="text" value="0"/>	the MHz part of the output frequency only.
Minitiouner control (wideband version only)		
Type:	<input type="button" value="Ryde (Linux)"/>	Remote Control Mode
IP address:	<input type="text" value="192.168.10.171"/>	IP address of the PC running Minitiouner/Ryde
TCP port number:	<input type="text" value="8765"/>	default port
allow remote tuning:	<input type="button" value="ON (INET access allowed)"/>	enable/disable remote tuning
Adalm-PLUTO (only if a Pluto is connected)		
IP-address	<input type="text" value="0"/>	if your Pluto is connected via USB cable, then leave this field EMPTY !
ICOM CAT settings (narrow band version only):		
CIV address:	<input type="text" value="a2"/>	CIV address of the connected ICOM transceiver in HEXADECIMAL format (i.e.: A2)
TX freq correction [Hz]:	<input type="text" value="0"/>	ONLY: If the Icom TRX is used as transmitter (not receiver). Enter a small correction value in Hz to compensate TX and/or converter frequency offset
a RIGHT mouse click in the waterfall sets the QRG of an ICOM transceiver. In Sat-mode the RX (main band) and the TX (sub band -300kc), or in TX-only mode just the main band (300kc below the RX QRG		
ICOM Satellite Mode:	<input type="button" value="Satellite Mode"/>	choose if the transceiver is used in satellite mode or for TX only
<input type="button" value="SAVE and EXIT"/>		

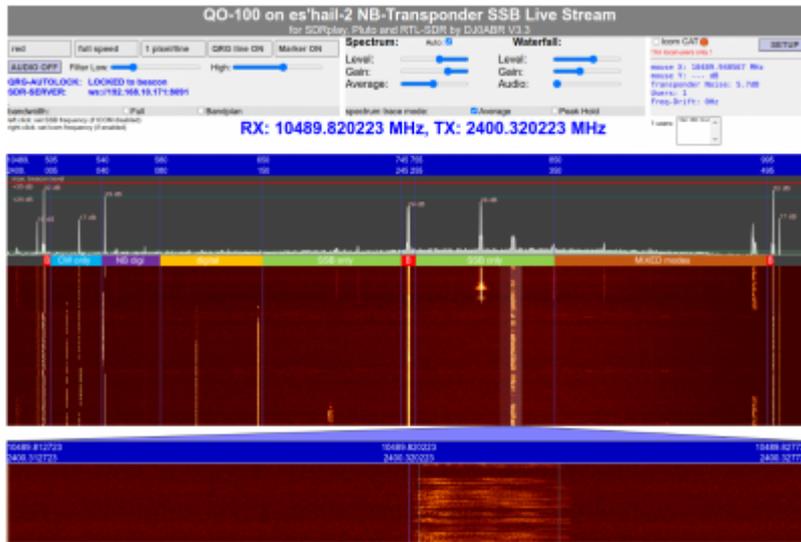
Please enter at least the following values (the others are optional):

- LNB original crystal frequency ... usually 25 MHz
- LNB reference frequency ... the clock frequency which is fed to the LNB. Usually this is 25 MHz (so 25000000). When using the Amsat DL downconverter it is 24 MHz (24000000). Sometimes one uses also a crooked frequency, which is entered here in Hz,
- output frequency of an additional down mixer ... If the WebSDR is not directly connected to the LNB, but to the output of an additional down mixer, you enter the output frequency of this mixer in MHz (the Hz digits are calculated automatically).

these were the most important settings, the other fields can be filled in if necessary, the explanation is on the screen.

Now click **Save and EXIT**.

the frequencies are now tuned correctly and the spectrum of QO100 appears:



the WebSDR is now set up, continue in chapter **Operation**.

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