Quick reference for the Leamington UARC HF remote

Operational notes:

- **How to tune to new frequency/band** *(160 meters is not available for TX)*:
  - Set approx. frequency of operation, avoiding ongoing QSO
  - Set **Mic Gain** to 0
  - Verify that **RF Power** is 10 or higher
  - Set **MODE** to **AM**
  - Push **TX** button to send carrier (button turns yellow) and wait 15 seconds *(e.g. 15 "Mississippis")* for the tuner to *(try to)* find a match.
  - Push **TX** button again to turn off carrier (button turns gray)
  - Set **MODE** back to LSB/USB as appropriate
  - Set **Mic Gain** to 41
  - *Note: If camera access is available, SWR may be read from tuner display.*
- **Select VFO A/B**: Turn large knob – VFO A is selected, turn small knob – VFO B is selected.
- **Adjust frequency step size:** Lower-right corner drop-down menu: Upper is for VFO A, lower is for VFO B
- **Enable speech processor:** Press **COMP** button for more "punch"
- **Remove CW note from someone tuning up or carrier from broacast station:** Press **ANF** (auto notch filter) button
- **Reduce background noise/buzz:** Press **NR** (noise reduction) to activate DSP noise filter, adjust **NR Level** slider to set "strength"
- **Directly enter frequency:** Use **Number Pad** in upper-left corner – push number buttons or enter with keyboard. Button below selects which VFO *(or both)* as destination for frequency.
- There are sliders for NB level, Notch and Comp level, but these aren't supported by this radio and do nothing.
- If the S-meter is above S1 and is moving around, you probably **do not** need to enable the Pre-Amplifier as this will only boost background noise and not the desired signal.
- If, while you are talking, the moving waveform display at the top of the program changes from black, reduce the **MIC** setting where this doesn't (or rarely) happens on voice peaks.
- There is currently no RIT or SPLIT tuning available.

CW operation:

- Select **CW** mode, click on the **CW** tab at the extreme bottom-left of the program window and type the text you wish to send where it says "Type a message".
- Use the **CW Speed** and **BK-In Delay** sliders for sending speed and transmit-receive break-in delay.
- Local use of paddle instead of text input is possible – *see the **Options→Control Devices Setup→External CW** tab in RCForb.*
- *There are no narrow-bandwidth CW filters available.*

Initial settings for SSB:

- **Mode:** For voice, USB for 20 meters and higher, LSB for 40 meters and lower *(Exception: USB is used on 60 meters)*
- **Pre Amp: Off**
- **Power:** 100% *(Approx. 100 watts)*
- **RF Gain:** 100%
- **Mic Gain:** 41%
- **SQL** (squelch)**:** 0
- **NR** button (DSP Noise reduction): Not selected (not yellow)
- **NR Level** (DSP noise reduction "strength")**:** Normally 0-15
- **ANF** button (DSP automatic Notch Filter): Not selected (not yellow)
- **Comp** (transmit speech compressor)**:** Selected (yellow)

SSB Transmit Troubleshooting

- ***Not transmitting?*** *(No power, cannot be heard)*
  - Check **Mode** (LSB/USB according to freq.)
  - **RF Power** slider should be higher than zero. *(100%=100 watts)*
  - Check **Mic Gain** on radio slider: Set to approx. 41%
  - Check "**Mic**" at top of program window – increase gain if oscilloscope line is flat/check your computer's mic gain/connection.
  - Check **MIC** setting in RCForb program (top, far left with drop-down selection) to verify correct audio source.
  - Did you transmit for more than **180 seconds/3 minutes** at once and trigger transmit time-out? Switch back to receive and then try not to be so long-winded next time!
  - If you are using RCForb Ver 0.9, MIC audio may not work on some computers – try Ver. 0.8, instead.
  - Use RCForb Mic test: ***Options→Audio Device Settings***
  - Is microphone/input configuration on your computer correct?
  - Band may be dead: Listen to yourself on a WebSDR *(http://websdr.org)*

Receive Troubleshooting:

- Nothing heard on receive – not even noise?
  - Check computer speaker volume: Play music or YouTube to verify that you can hear audio from ***your*** computer.
  - Check **SPKR** setting in program (top, far left with drop-down selection) to verify correct audio output.
  - Check **Vol** setting on program. Test ***Options→Audio Device Settings***
  - Check **RF Gain** on radio: **Slider should be at 100%**
  - Check **SQL** on radio: **Slider should be at 0**
  - Make sure you aren't in TX mode (**TX** button is yellow)
  - If you *are* hearing some background noise, but no signals, you may be on a band that is not active.
    - There will be few signals on 160/80 meters in the daytime.
    - Low sunspot activity? 17, 15, 12 and 10 meters may rarely open.