

Release Notes for DSP Firmware Releases 1.32 und 1.33

Release 1.32a :

1. A new concept for the Tune Function: the cumbersome activation of the tune carrier via CONFIG / TX / MORE has been simplified. Automatic antenna tuners demand for a carrier with reduced power of approximately 10W. Therefore a new procedure is in use since the release 1.32:
 - When MOX = on, a carrier will be switched on and off by pressing the key F-TUNE
 - This function is available in all modes (CW, SSB, AM, FM)
 - The former tune function is now limited to configure the carrier power from 0.1 to 10W
 - The power range is limited to 10W to protect the antenna tuner from overload.
2. Improvements for CW transmission:
 - The use of a standard morse key with a 2-pole jack connector caused a malfunction of the 'on air'-LED when operated in the STNDRD mode.
 - The keyer tended to clicks when sending multiple dashes.

Release 1.33a :

1. This release is prepared to handle device-specific Options. In future, options can be enabled by a special customer specific code in the personality file which is downloaded via USB.
2. Modifications for the Memories: After recalling a memory channel, all parameters including the tuning frequency can now be changed. The currently active memory channel is deactivated by pressing the MEMORY key again and the settings are restored that were active before the memory channel was selected.
3. The automatic setting of the AGC threshold to -100dBm when switching on the ADT-200A is removed. Now the previous value becomes active.
4. Improvements of the Rx F-Tune function: the automatic fine tuning for AM is complemented by a new two-step-procedure. In a first step, the tuning algorithm is sets the Rx frequency close to the received carrier. In a second step, the bandwidth is reduced to about 50Hz and the fine tuning is performed. This method shows advantages in strong fading situations or when a strong BC station is close to a weak signal.
5. In the predistortion there was an unintentional delay of one sample (31.25µs). This is now compensated and allows better convergence in the adaptive predistortion.
6. The bug that F-TUNE was not available in Release 1.32 is fixed.