



xSDR6000 for macOS

Version 2.x.x

Copyright © 2019 Douglas Adams. All rights reserved.

Introduction

xSDR6000 was written by Douglas Adams (K3TZR, doug@k3tzt.net) to allow a Mac user to operate a FlexRadio (TM) 6000 series radio from a Mac. It runs on macOS 10.11 and higher.

The source code can be found at:

<https://github.com/DougPA/xSDR6000>

An executable is contained in the *Release* on that same repository.

<https://github.com/DougPA/xSDR6000/releases>

Installation

Install xSDR6000 by simply copying the application bundle from the *Release* to a place of your choice (typically the “Applications” folder). Nothing else to install.

Using xSDR6000

xSDR6000 looks and works in much the same way that SmartSDR (TM) does. This is not a complete manual of its operation, unfortunately I don't have the time or resources to produce such a manual. For the most part, its operation is fairly obvious. I will attempt to document the less obvious parts here.

This is a work in progress, feel free to contact me (doug@k3tzt.net) with suggestions, bug reports, etc. Please be patient, this is a one man operation.

ScrollWheel / Trackpad / Mouse usage

Action	Where	Result
Wheel Up / Trackpad Up	Not in Slice	Active Slice frequency up/down
	In Slice	Filter Width increase / decrease
Left Click	Not in Slice	Move active Slice
	In Slice	Make Slice active
Left Drag (left <-> right)	Not in Slice	Move Panadapter center
	In Slice	Move Slice
	Over Frequency Legend	Panadapter bandwidth increase / decrease
Left Drag (up <-> down)	Not in Slice	n/a
	In Slice	Filter Width increase / decrease
	In Db Legend (top half)	Increase / decrease upper Db level
	In Db Legend (bottom half)	Increase / decrease lower Db level
Right Click	Not in Slice, not in Tnf	Menu - Create Slice, Create Tnf
	In Slice	Menu - Remove Slice, Create Tnf
	In Tnf	Menu - Create Slice, Remove Tnf, Tnf Settings
	In Tnf & Slice	Menu - Remove Slice, Remove Tnf, Tnf Settings

Shortcut Keys

Key	Action
⌘,	Show Preferences
⌘P	New Panadapter
⌘T	Enable Tnfs toggle
⌘M	Show Markers toggle
⌘S	Show Side view toggle
⌘A	Enable Mac Audio toggle
⌘N	Cycle through the Slices on a Pan

Key	Action
⌘	When in Flag->XRIT, Option key toggles between “Tuning Step” and “Split Step”
⇧	Holding Shift key down while scrolling makes tuning step = 100 Hz
⌘	Holding Option key down while scrolling makes tuning step = 10 Hz
⇧ ⌘	Holding Shift & Option keys down while scrolling makes tuning step = 1 Hz

Credits

xSDR6000 is built on top of my xAPI framework (<https://github.com/DougPA/xLib6000>).

Thanks to Mario Illgen (DL3LSM) for many hours of testing and for writing portions of the xAPI framework related to DAX streams. Please see his DAX and CAT apps (<http://dl3lsm.blogspot.de>).

Thanks to Robbie Hanson, Deusty LLC and the Apple development community for the CocoaAsyncSocket framework (<https://github.com/robbiehanson/CocoaAsyncSocket>).

Thanks to Radek Pietruszewski for SwiftyUserDefaults (<https://github.com/radex>).

Thanks to the Opus organization (<https://opus-codec.org/downloads/>) for the code to produce OpusOSX.framework.

Thanks to FlexRadio for the hardware and opening up the API and the FlexLib sources for 3rd party developers (<http://www.flexradio.com>).

License and Disclaimer

The MIT License (MIT)

Copyright (c) 2017 Douglas Adams (douglas.adams@me.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE