Demorad Software User Guide
Revision

- Rev 0: 24/1/17
- Rev 1: 2/2/17 – Added command line prompts
- Rev 1.1: 14/4/17 – Amended command line prompts
- Rev 1.2: 19/04/17 – Updated StoreIf instructions

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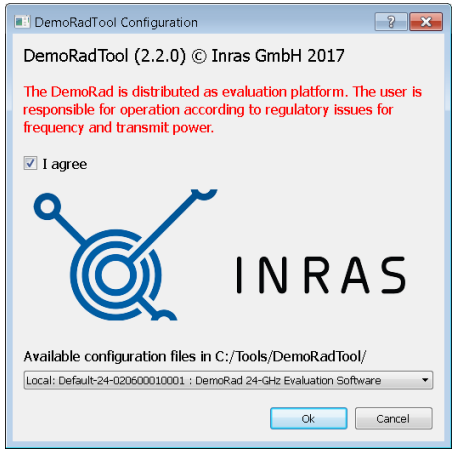
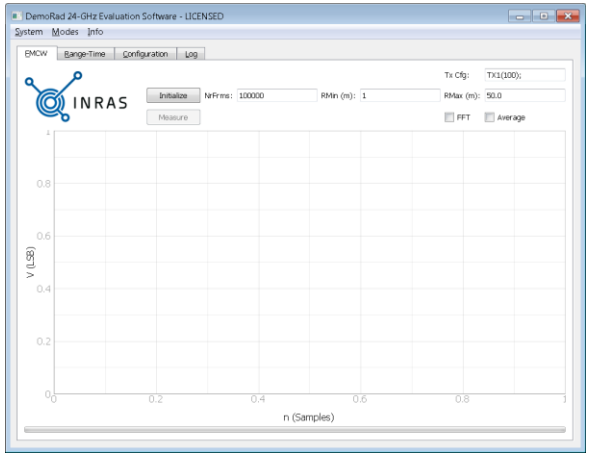
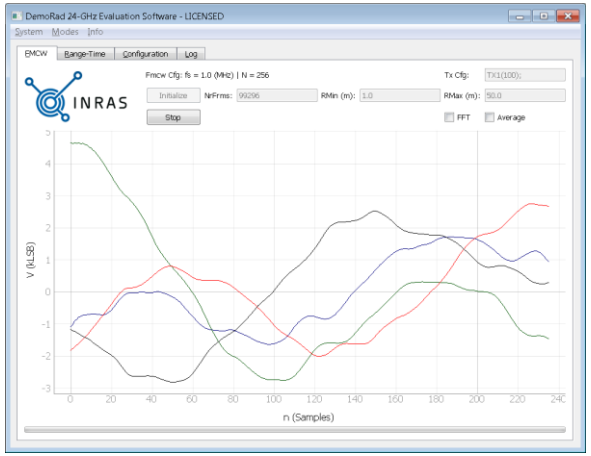
- Run DemoRadTool-x32.exe
  - You must have the correct license and agree to the terms of use

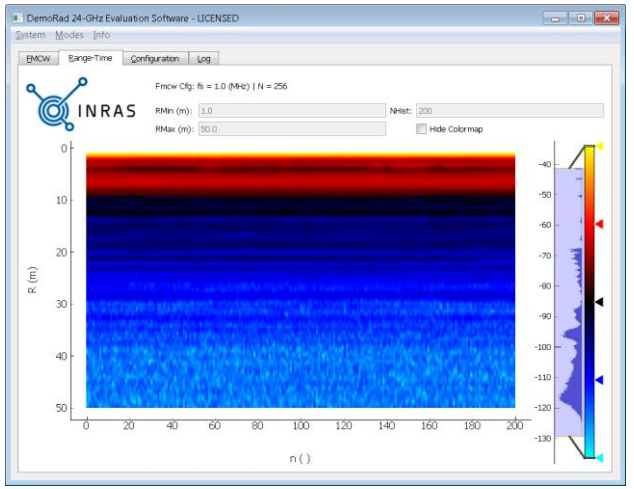


- Run FMCW mode
  - This is the default mode when the application is open.
  - Click ‘Initialize’ and then ‘Measure’ to start measuring.



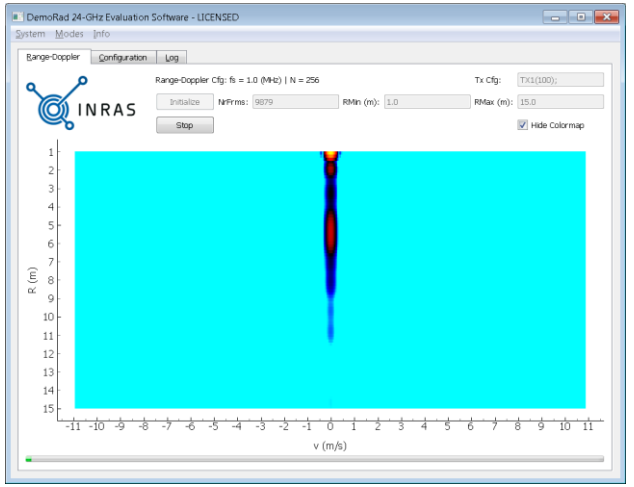


- The FMCW mode has a Range-Time tab.



- To change Mode
  - Stop the FMCW measurement.
  - Click ‘Modes’ in the file menu and select another mode

- Range Doppler Mode
  - Initialise and Measure in the Range-Doppler tab.



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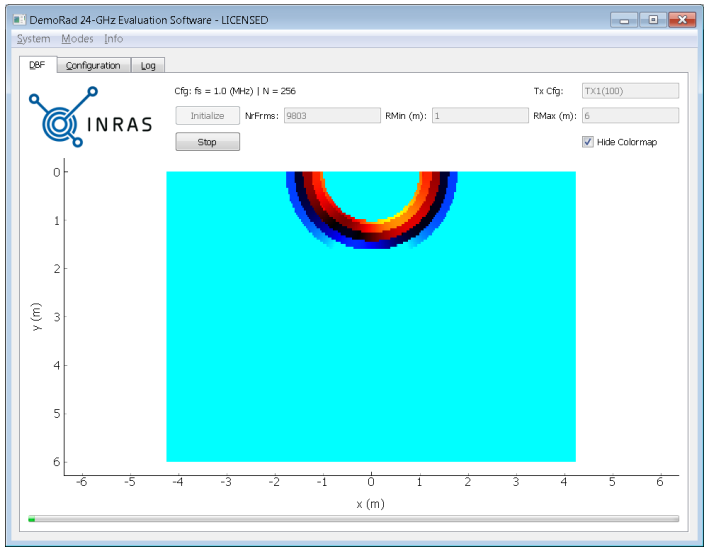
- Digital Beam Forming Function
  - In the ‘Modes’ file menu called ‘DBF’



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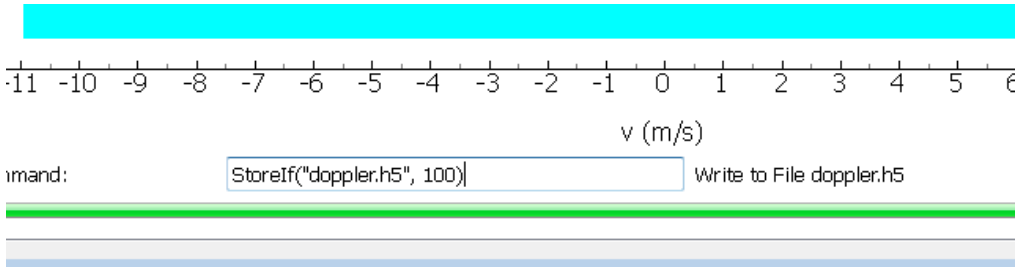
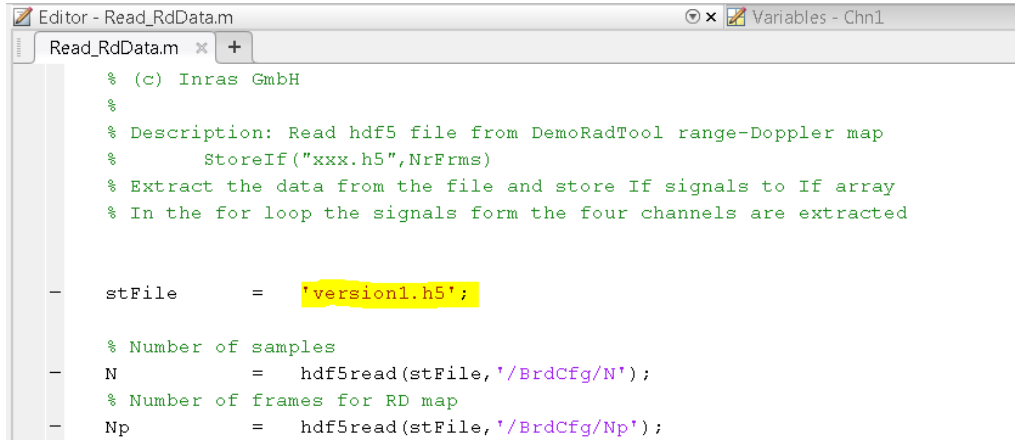
Commands

- In the FMCW tab press “Alt + F2”
  - This will bring up a Command line under the plot.
- Commands
  - AddPlt(1): Enable a second plot
  - AddPlt(0): Disable a second plot

- StoreIf(“Dummy.h5”, NrFrms): Stores the received data to a hdf5 file. The files are stored to c:/Tools/DemoRadTool/; this folder must exist before storing. This is for Range Doppler Mode.



  - This .h5 file can be read in MatLAB using the ‘Read_RDdata.m’ file. This file is found in the Software folder.
  - You will need to have the .h5 file in the same folder and edit the .m file to read in your .h5 file name.



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Commands

- AddPosn(1): Enables a position estimation page
- EstPosn(RMin,RMax,NrFrms): Estimates the position between RMin and RMax and for NrFrms adjacent values
  - “EstPosn(0,10,150)” command will live plot a position estimate plot in the Posn tab