

Simulate, Stimulate, Test...

How to Control Tabor AWGs with MATLAB

Using the IVI driver

In the previous tutorial, we have shown how to communicate with Tabor AWG using SCPI commands. Another way of using the Test & Measurement Tool, is by creating a device object using the Tabor IVI driver. This way, one can communicate with the Tabor AWG, using pre-defined functions. In this tutorial, we will give a quick start guide on how you can communicate with the Tabor AWG using the IVI driver.

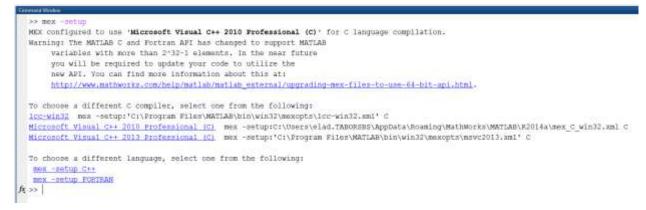
In order to control instruments using MATLAB, the instrument control toolbox is required. Please note that the Instrument Control Toolbox is an additional application that needs to be added. For more information you can visit the <u>Mathworks</u> website.

For this tutorial, we will use MATLAB version R2014a 32bit and a USB interface. We will demonstrate it using Tabor WX2184C and the WX218xx IVI driver. There are differences with operating WW AWGs using the WW257xx IVI driver but the basics are the same. To ensure you successfully established all the necessary settings for remote control over the Tabor instrument using LAN/USB/GPIB, please go over the <u>connectivity</u> <u>tutorials</u> on the Tabor's website.

To connect and control the Tabor's Instrument using the Test & Measurement Tool

 First you may need to choose a MATLAB compiler. There is a need to check that MATLAB uses Microsoft visual C++ compiler or other compiler that can read C (as the IVI driver is written in C language).

Please enter the following command:



It will start a routine that should allow you to view/choose between all avialable compilers. In case you don't have any C/C++ compiler as an option, please use the following links to finish



this routine:

- a. <u>https://www.mathworks.com/matlabcentral/answers/101105-how-do-i-install-</u> <u>microsoft-windows-sdk-7-1</u>
- b. <u>http://www.mathworks.com/support/compilers/R2016b/</u>
- Set the USB/LAN/GPIB as the remote interface, using the Tabor's front panel buttons. To do so, go to: "Utility"->"Remote Interface"->"Select Interface"->"Control from Interface". Press Enter to select the active Interface you need. Wait for the answer "Done". We chose to demonstrate using USB.

► Utility ► Re Select	mote Interface	terface
Interface	🔿 GPIB 🛛 📀 U	JSB 🔾 LAN
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USB	Initializing the Done.	USB interface.
LAN	l	J
BASE MODE	SYNC OUT CCH11	INTER-CHANNELS [CH2]
COUPLE: DC RUN: CONT	POS: 0Pts WIDTH: 4Pts	OFFSET: -8Pts SKEW: +0.00ns

3. Once the MATLAB is up and running, type "tmtool" on the command window to open the Test & Measurement Tool.

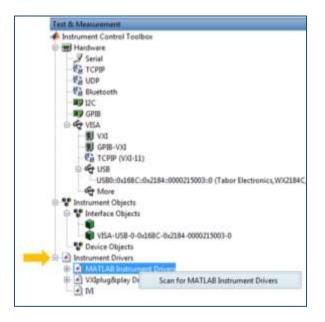
Cor	Command Window					
٩	New to MATLAB? Watch this <u>Video</u> , see <u>Examples</u> , or read <u>Getting Started</u> .					
fx.	>> tmtool >>					



A new Test & Measurement Tool dialog box opens up:

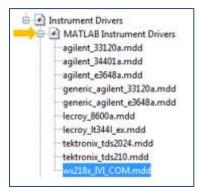
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4. Click on "Instrument Drivers" and then right click on MATLAB Instrument drivers and select "Scan for MATLAB Intstrument Drivers" :



5. Click on "MATLAB Instrument Drivers" to see the list of supported IVI drivers:

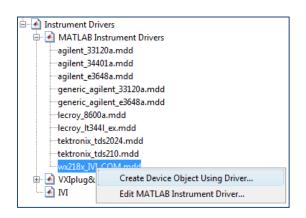




NOTE

If the Tabor 'wx218x_IVI_COM.mdd' file isn't there, please refer to the instructions in "How to Connect to Tabor Using Instrument Control Toolbox"" tutorial, regarding how to copy & paste this '*.mdd' file to MATLAB's 'Drivers' folder.

6. Right click on "wx218x_IVI_COM.mdd". Choose "Create Device Object Using Driver..."





7. A new window pops out. Click on 'Scan'. Make sure the address and driver are the correct ones for this specific AWG. Click on 'OK' to create a device object:

Configure C	bject Creation	
Driver:	wx218x_IVI_COM	
Resource:	USB0::0x168C::0x2184::0000215003::INSTR	 Scan
	e created device object node in the tree on dialog c ow this dialog again.	lose.
Don't sh		

A new device object should appear:





8. Click on the 'fcngen-wx218x_IVI_COM' and a new dialog box will pop up:

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On the Device Object dialog box you will see 'Functions', 'Properties' and 'Session Log'.

- **Functions** Allows you to communicate with the device using its driver functions.
- Properties Allows you to set parameters and modes regarding the device under control.
- Session Log Allows you to save the last session as MATLAB script.
- **9.** Here is a short basic example, to set a 50MHz 2Vp-p square waveform in standard mode, just to get a feel of how to communicate using the IVI driver.
 - a. Press on the 'Connect' button.



b. After successfully connecting to Tabor, execute the 'Reset' function under 'Utility group object functions' as shown below. A new action line should appear.

Connection				
	Tabor Electronics Ltd. WX218x	(Function Generator): Connected	Connect	Disconnect
Interface: USB0::0x10	58C::0x2184::0000215003::INSTR			
)river Jame: wx218x_IVI_((ersion: 1.0	сом			
unctions Propertie	es Session Log			
Select an instrumer	t function			
Utility group object Disable ErrorQuery LockObject Reset	functions:			
ResetWithDefault	is a second s			
SelfTest UnlockObject	-			•
NVOKE(OBJ, 'Reset')	É.			
Object:	Utility1			•
Input argument(s):				
Output argument(s)				
			Show Help	Execute
Response				
Function complete	ed successfully.			
	Contrast concern	Test to - 22		Export
	Object	Input	Output	
Function connect	Device object			



c. Execute the 'SetActiveChannel' function under 'Device object functions'. As input type: 'channel1' and click on 'Execute'.

version: 1.0			
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Object:	Device object		•
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	Utility1		
leset			



d. Execute the 'configure' function under 'StandardWaveform group object functions'. As inputs type: 'channel1', 'WX218xWaveformSquare', 2, 0, 50e6, 0. Then click on 'Execute' to set the waveform parameters.

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version: 1.0	1111		
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Object:	StandardWaveform1		▼.
Input argument(s):	'channel1', 'WX218xWaveform'	Square',2,0,50e6,0	
Output argument(s)	:		
			Show Help Execute
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Function complete	ed successfully.		
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Reset	Utility1		
SetActiveChannel	Device object	'channel1'	
Configure	StandardWaveform1	'channel1','WX218xWaveformSqua	



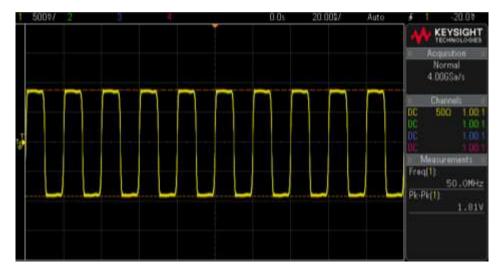
e. Finally execute the 'Enable' function under 'Output group object functions'. As input, type: 'channel1', 1 to turn CH1 on (0 to turn CH1 off). After doing so, press on the 'Disconnect' button.

Connection Connection status to Tabor Electronics Ltd. WX218x (Function Generator): Disconnected Interface: US80:0x168C::0x2184::0000215003::INSTR Driver Name: wx218x; IV[_COM Version: 1.0 Function: Properties Session Log Select an instrument function Output group object functions: ConfigureCutputStateAllCh Cutput Cutput Cutput Cutput Cutput Cutput CutputStateAllCh Cutput Cutput Cutput Cutput Cutput CutputStateAllCh Cutput Cutput Cutput Cutput Cutput Cutput Cutput CutputStateAllCh Cutput Cutput Cutput Cutpu	fcngen-wx218x_IVI_CO	M					
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As can be seen above, each time you press the 'Execute' button, the function you executed is also saved as an action line that can be used later on as part of a MATLAB script for automation purposes.

Each time a function is successfully executed, you can go to the 'Session Log' and see its syntax. You could also copy and paste it to a different MATLAB script . This is a great helping tool for those who are new to the IVI driver functions used with Tabor AWGs.





10. As can be seen on scope, a 50MHz 2Vp-p square waveform was created:



11. In order to save this process as a MATLAB code, go to 'Session log' where you will see that all the actions you have made were automatically translated into MATLAB code. Press the 'Save Session' button to save as MATLAB script.

forger-millio_bit_COM
Connection
Connection status to Taker Electronics Ltd. WX25bs (Function Generator): Disconnected Connect.
Interface: 0588-0x388-cdx2184-0000215003-0V578
Driver Name: weIIBs_MI_COM Version 1.0 Functions: Propertie: Session 1.np
1% Create a device object.
<pre>Z deviceObj = icdevice('wx216x_IVI_COM.mdd', 'USB0::0x168C::) 3</pre>
4 & Connect device object to hardware.
5 connect (deviceObj) /
6
7% Execute device object function(s).
<pre># groupObj = get(deviceObj, 'Utility');</pre>
9 groupObj = groupObj(1);
10 invoke(groupOb), 'Reset');
11 invoke (deviceOb), 'SetActiveChannel', 'channell');
12 groupObj = get(deviceObj, 'Standardwaveform');
13 groupObj = groupObj(1);
14 invoke (groupObj, 'Configure', 'channell', 'WX218xHaveform5q
15 groupObj = get(deviceObj, 'Output');
16groupObj = groupObj(1);
17 invoke (groupObj, 'Enabled', 'channel1',1);
18
19 + Disconnect device object from hardware, .
A
Seve Session



And save your session as MATLAB script:

	ab + IVL function_e	and the	• 4 ₂	Search (NL function	Succession	-
Organize * New	folder				s: •	0
Favorites	Docume M_function	ents library		Arrange by:	Folder *	
Downloads	Name		· ·			
		No iten	is match your s	serch.		
Libraries						
Documents						
Music Pictures						
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Local Disk (C:)		10	1			
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1.192.201.0112	AATLAB Files (".m)					3
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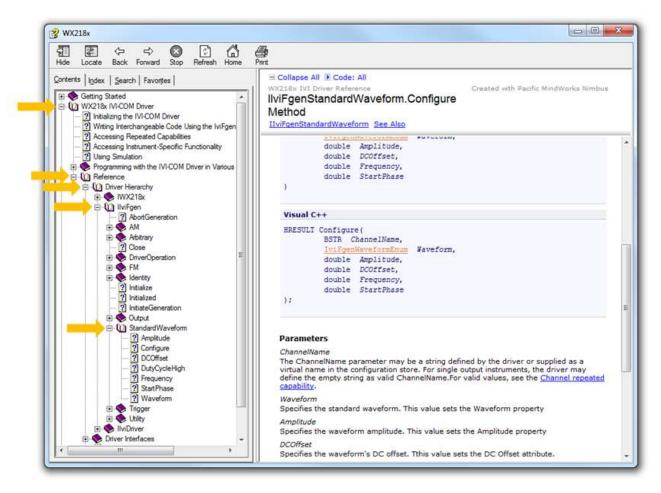
12. For more information regarding the IVI driver functions:

- a. Go to: C:\Program Files (x86)\IVI Foundation\IVI\Drivers\wx218x
 - i. Open the "WX218x" file:

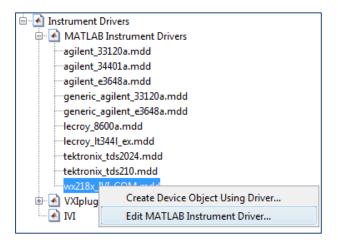
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	Readme	12/11/2014 4:09 PM	Test Document	13 43
Ju Libraries	🔮 WX228x	LEADER A LEAD AND	Compiled HTML	2,087,83
Documents	ww218x.fp	12/38/2014 8-42 AAA	PP File	372.43
Music E Pictures	🗋 wa218x.sub	11/5/2014 11:47 AM	SUB File	76.83



ii. Follow the path as shown below:

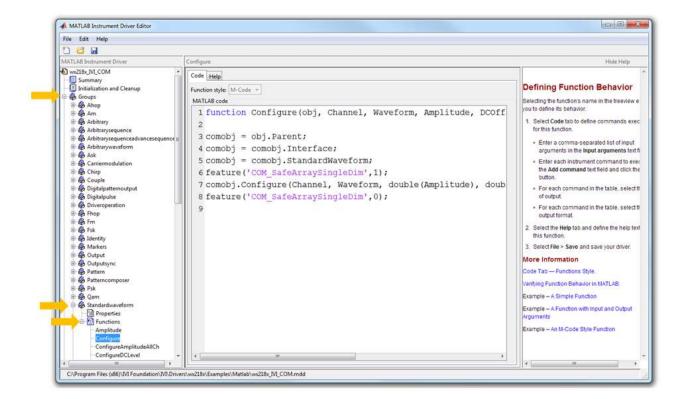


- b. In MATLAB's Test & Measurement Tool, you can also have a look at the functions syntax by:
 - i. right clicking on "wx218x_IVI_COM.mdd" and choosing "Edit MATLAB Instrument Driver".





ii. To see the functions syntax extend:'Groups'->chose group of interest->'Functions'->chose function of interest



In the next four tutorials of the series "How to Control Tabor AWGs with MATLAB", we will show four practical MATLAB coding examples.

For More Information

To learn more about how to use MATLAB with Tabor instruments, visit our website Support & Tutorials zone. For more of Tabor's solutions or to schedule a demo, please contact your local Tabor representative or email your request to <u>info@tabor.co.il</u>. More information can be found at our website at <u>www.taborelec.com</u>

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