Matelect Ltd
Labview Instrument VI's
Last update 04-08-15

Thank you for your interest in our Labview VI's. Matelect have Labview libraries for the following instruments, which may all be downloaded for free from our website;

CGM-5R plus scanners and D2M module
CGM-7 plus scanners
DCM-1 plus scanners
DCM-2 plus scanners
ICF-6R
ISM-6A

All our VI's have context help, this allows the user in Labview to hover there mouse over the selected Matelect VI and receive basic help on that VI's function and use. To enable this feature in Labview select 'Help' and then 'show context help'.

This level of help should be sufficient for all the VI's but should the end user require further clarification they should contact Matelect via softwaresupport@matelect.com

Below is a list of each instruments available VI's and there function along with any dependant Matelect VI's.

CGM-7		
VI name	**Function**	**Dependant VI**
CGM7 VI v11	Example VI using all of the CGM7 VI's showing how they can be used. This does not use Labviews event structure.	All CGM7 VI's
CGM7 read v11	Reads the CGM7 data set and outputs results cleanly formatted, including: Current,X0,X90,Y0,Y90 CGM7 status flags Comms status Also allows AUX output setting	CGM7 RAW DATA READ v11
CGM7 raw data read v11	Reads the RAW CGM7 data set	
CGM7 aux set v11	Set the AUX output of the CGM7 to a value between 0v and 9v	
CGM7 current set v11	Sets the CGM7 output current	
CGM7 frequency set v11	Sets the CGM7 frequency	
CGM7 gain set v11	Sets the CGM7 gain for each signal	
CGM7 filter set v11	Sets the CGM7 filter for each channel	
CGM7 offset set v11	Sets the CGM7 offset for each signal	
CGM7 serial read v11	Reads the serial number of your CGM7	
CGM7 scanner set v11	Sets the signal and/or current scanner connected to the CGM7	

DCM-2		
VI name	**Function**	**Dependant VI**
DCM2 VI v11	Example VI using all of the DCM2 VI's showing how they can be used. This does not use Labviews event structure.	All DCM2 VI's
DCM2 find DCM-2 v11	Finds any DCM-2 connected to your computer and tells the users its coms mode and serial number	DCM2 USE COMMS MODE V11
DCM2 set offset voltage v11	Sets the DCM2's voltage offsets	DCM2 USE COMMS MODE V11
DCM2 set voltage range v11	Sets the DCM2 voltage range	DCM2 USE COMMS MODE V11
DCM2 set settling time v11	Sets the DCM2 scanning settling time. Not normally used	DCM2 USE COMMS MODE V11
DCM2 set scanner v11	Sets any scanners connected to the DCM2	DCM2 USE COMMS MODE V11
DCM2 set running mode v11	Sets the running mode of the DCM2	DCM2 USE COMMS MODE V11
DCM2 set filter number of readings v11	Sets the number of on/off readings the DCM2 takes per sample.	DCM2 USE COMMS MODE V11
DCM2 set filter samples v11	Sets the number of on/off samples the DCM2 takes.	DCM2 USE COMMS MODE V11
DCM2 set current v11	Sets the DCM2's current	DCM2 USE COMMS MODE V11
DCM2 set run or stop v11	Sets the DCM2 to run or stop	DCM2 USE COMMS MODE V11
DCM2 serial No read v11	Reads the DCM2's serial number	DCM2 USE COMMS MODE V11
DCM2 cont read v11	Reads the DCM2 data	DCM2 USE COMMS MODE V11 and DCM2 cont read data extraction v11
DCM2 cont read data extraction v11	Used by above VI for data extraction	
DCM2 use comms mode v11	Used by all DCM2 VI's to set the correct coms parameters	