UHF Demo Program User Guide

Connected reader with PC through RS232 com port and power on the reader

Run the demo program from the path :\demo program\delphi\UHFReader18demomain.exe

other demo program version as follow :

: \demo program\Csharp

: \demo program\VB.net

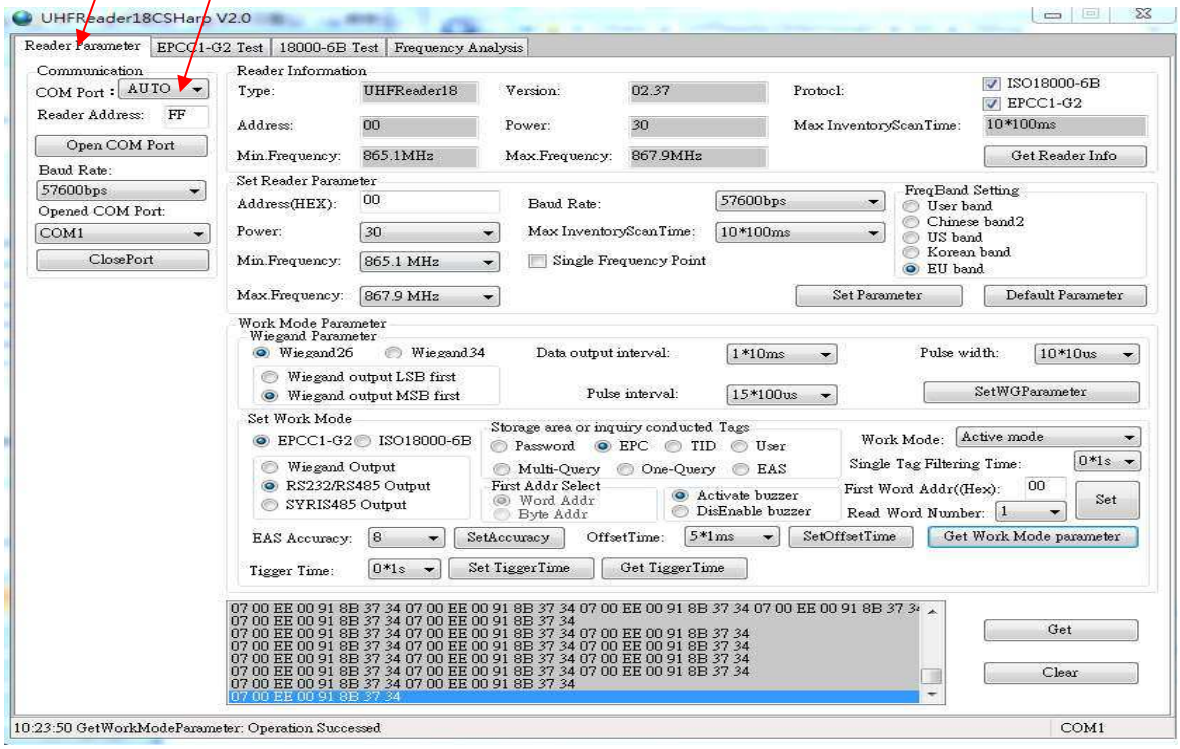
: \demo program\VC

Click on "Reader Parameter" from menu bar

Select correct "COM port" and click on "Open COM Port"

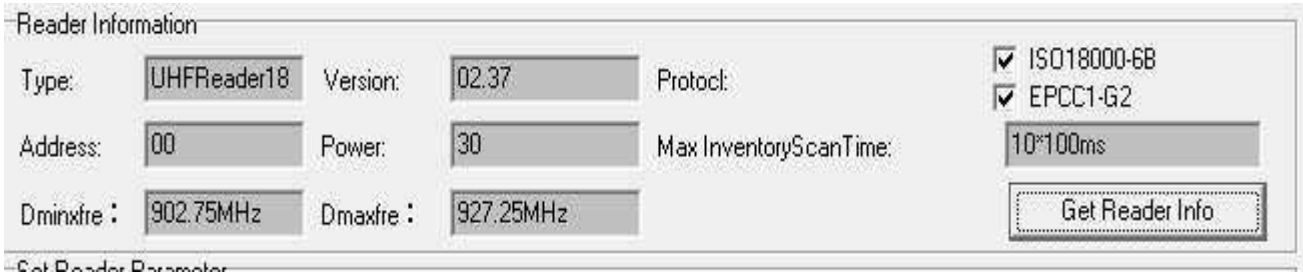
Remark : "AUTO com" may not work with some PC's com port , pls select the correct "com port" number for operation

Remark : Make sure No UHF tag within the detection range when open the com port, otherwise it may cause "serial communication error" message.

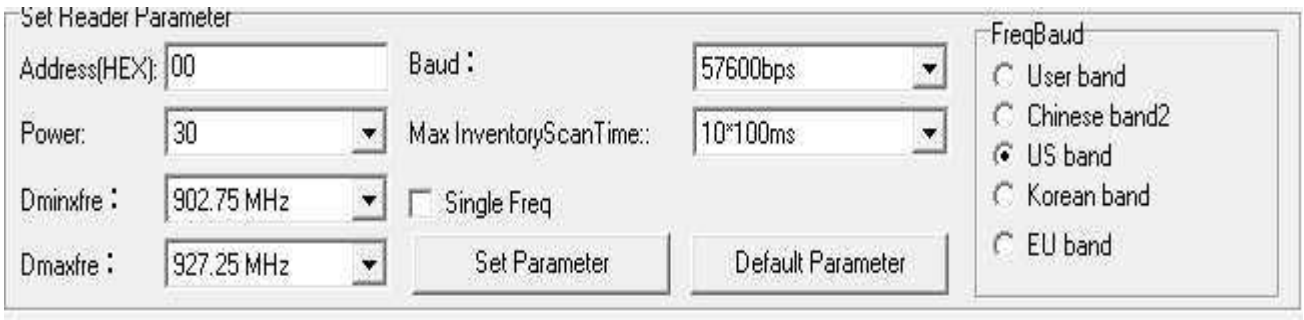


Reader Information

Click on "Get Reader Info" to get Reader information



Set Reader Parameter



Address : Reader address
Power : reader power from 0-30 level
Dminxfre : select Min. UHF frequency
Dminxfre : select Max UHF frequency
Baud : select com port baud rate
Max InventoryScanTime : select Scan time (e.g. 10*100ms = 1 second / scan)
Single Freq. : set single Frequency

FreqBand :
User Band – can be defined by user (902.6Mhz to 927.4Mhz)
Chinese Band2 – 920Mhz – 925Mhz
US Band – 902.75Mhz - 927.75Mhz
Korean band – 917.1Mhz – 923.3Mhz
EU band – 865.1Mhz – 867.9Mhz

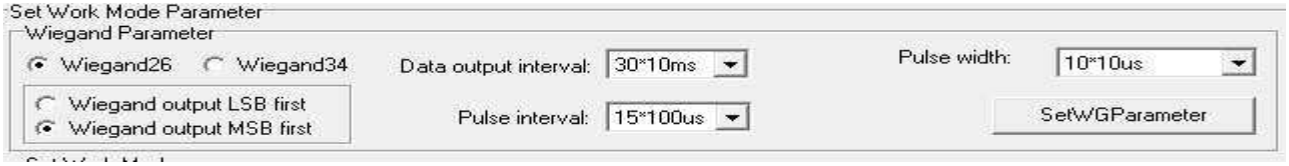
Remark :
US reader version can define the freq. range from 902.6Mhz to 927.4Mhz
EU reader version can select the "EU band" only and define the freq. range from 865.1Mhz to 867.9Mhz

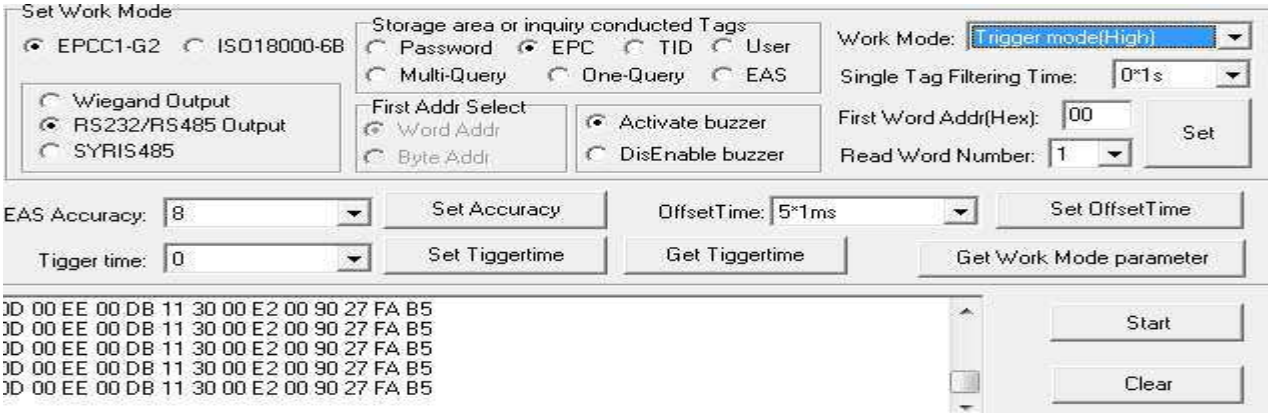
Set Parameter : save parameter value
Default Parameter : restore factory default setting

Set Work Mode

Function : Select wiegand interface and parameter .

SetWGParamter – Save setting





Select UHF Tag type - EPC-G2 or ISO18000-6B

Select Output Interface - wiegand , RS232 output or SYRIS485

Storage area or inquiry conducted Tags

Select data memory (Password , EPC ,TID , User or Inventory)

Activate or Disable buzzer

Work Mode :

Answer Mode :

Need send command to the reader for operation , select this mode for tag read/write testing

Active Mode (default setting) : read Tag automatically and output data as the parameter setting

Trigger Mode (Low) : reader is trigged by Trigger pin (Low)

Trigger Mode (high) : reader is trigged by Trigger pin (Low)

SET : save work mode parameter

Get Work Mode Parameter : Get current work mode parameter

EPC – G2 Testing under Active Mode

[1] Select the work mode to "Active mode" and click on "Set" to save the parameter

[2] click on the "GetWork Mode parameter"

[3] click on "Start" to start the tag reading / click on "Stop" to stop the tag reading

[4] place the EPC G2 card on the reader then the tag ID will be shown as follow :

EPC – G2 Testing under Answer Mode

[1] Select the work mode to "answer mode" and click on "Set" to save the parameter

[2] click on "EPCC1-G2 Test"

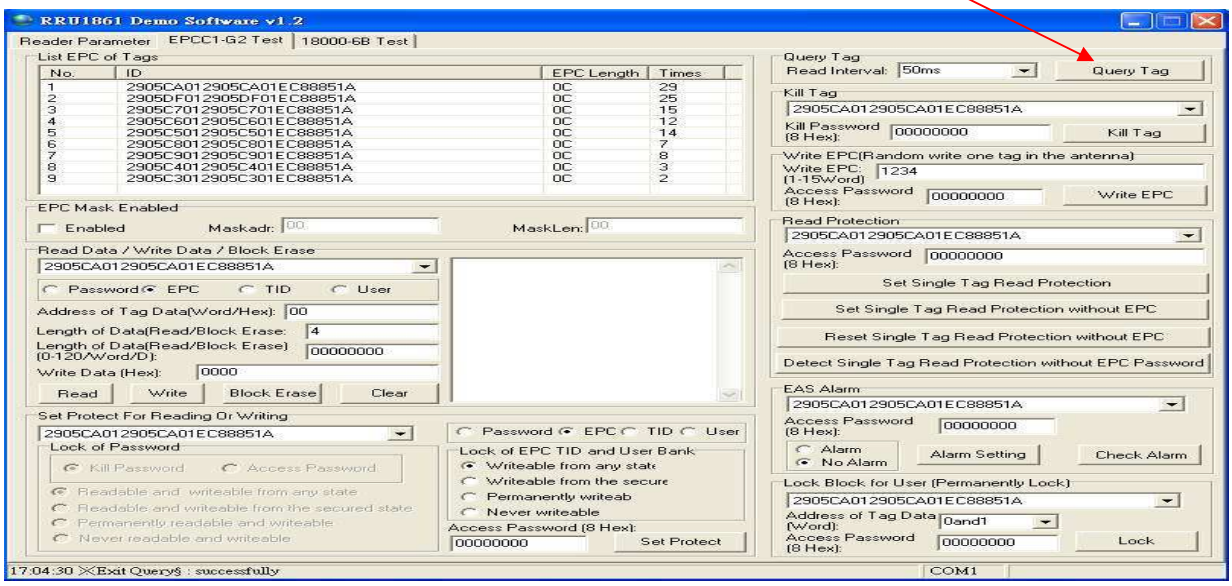
[3] Click on "Query Tag" to start Tag reading

[4] place the EPC G2 card on the reader then the tag ID will be shown as follow :

Click on "Query Tag" once again to stop Tag reading

Similar operation for other button (Press once start and Press again to stop)

Other read/write operation , pls refer to EPC-G2 datasheet



ISO18000-6B Testing under Answer mode

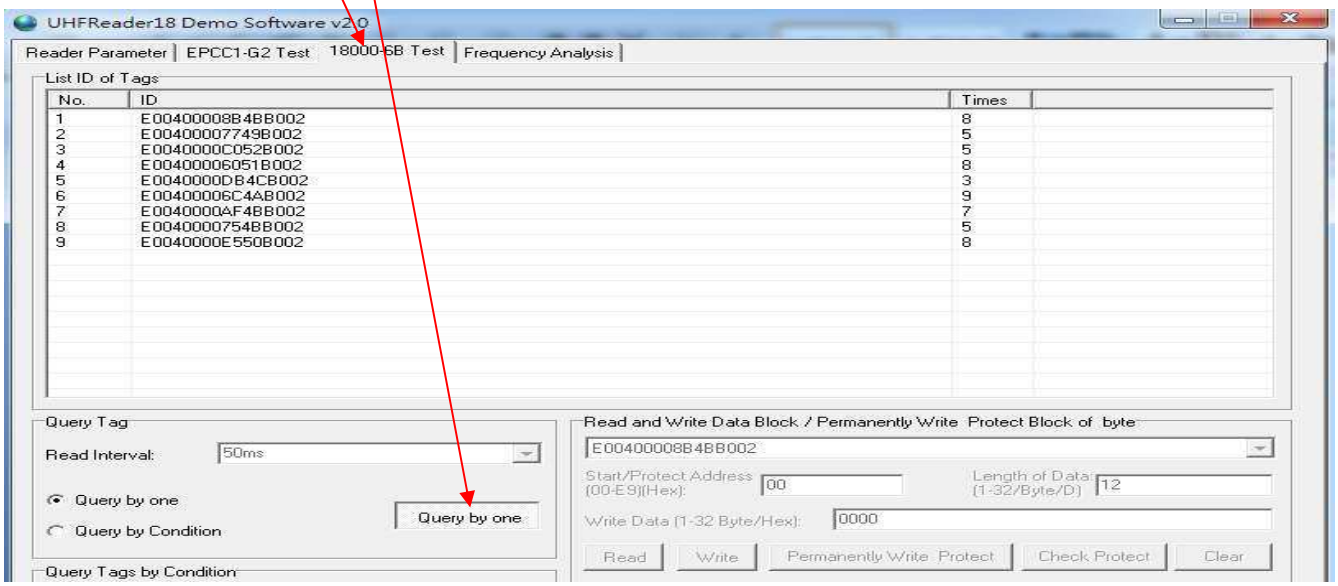
[1] Select the work mode to "answer mode" and click on "Set" to save the parameter

[2] click on "18000 6B Test"

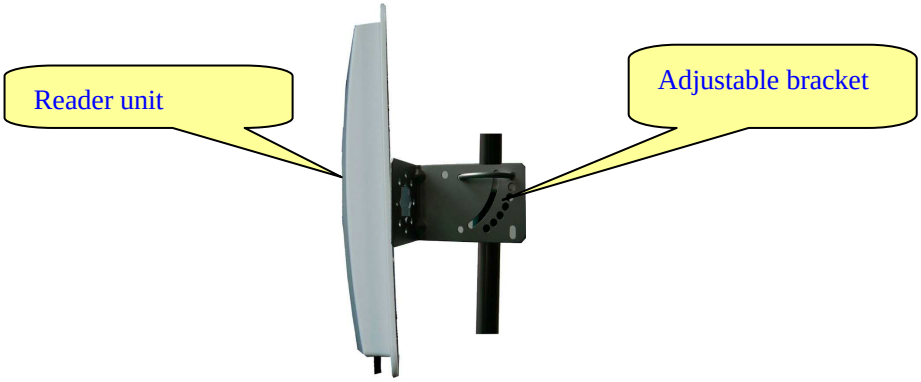
[3] Click on "Query by once" to start Tag reading

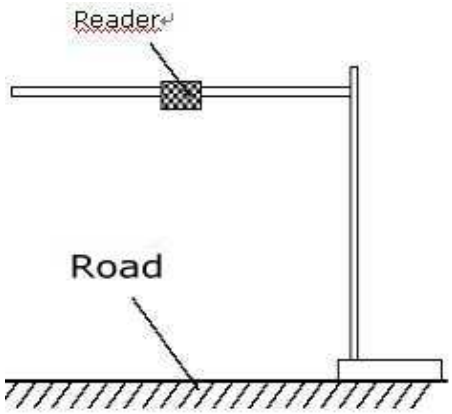
[4] place the 18000-6B card on the reader then the tag ID will be shown as follow :

Click on "Query by once" once again to stop Tag reading

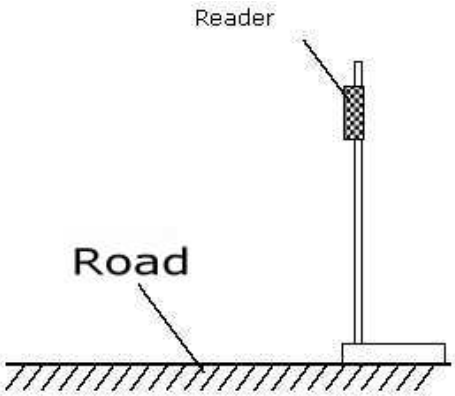


Reader installation



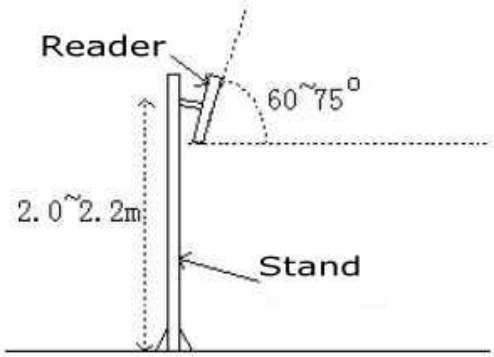


Horizontal installation



Vertical Installation

Adjust the reader to get the best detection performance



When measuring or testing the reader's read range, make sure that the tag is properly oriented to the reader antenna, and for optimum performance, be sure the operator's finger is not within three inches of the tag's antenna surface.

Environment Interference will affect the reading distance.