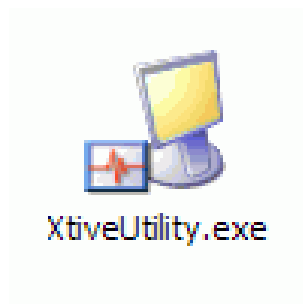


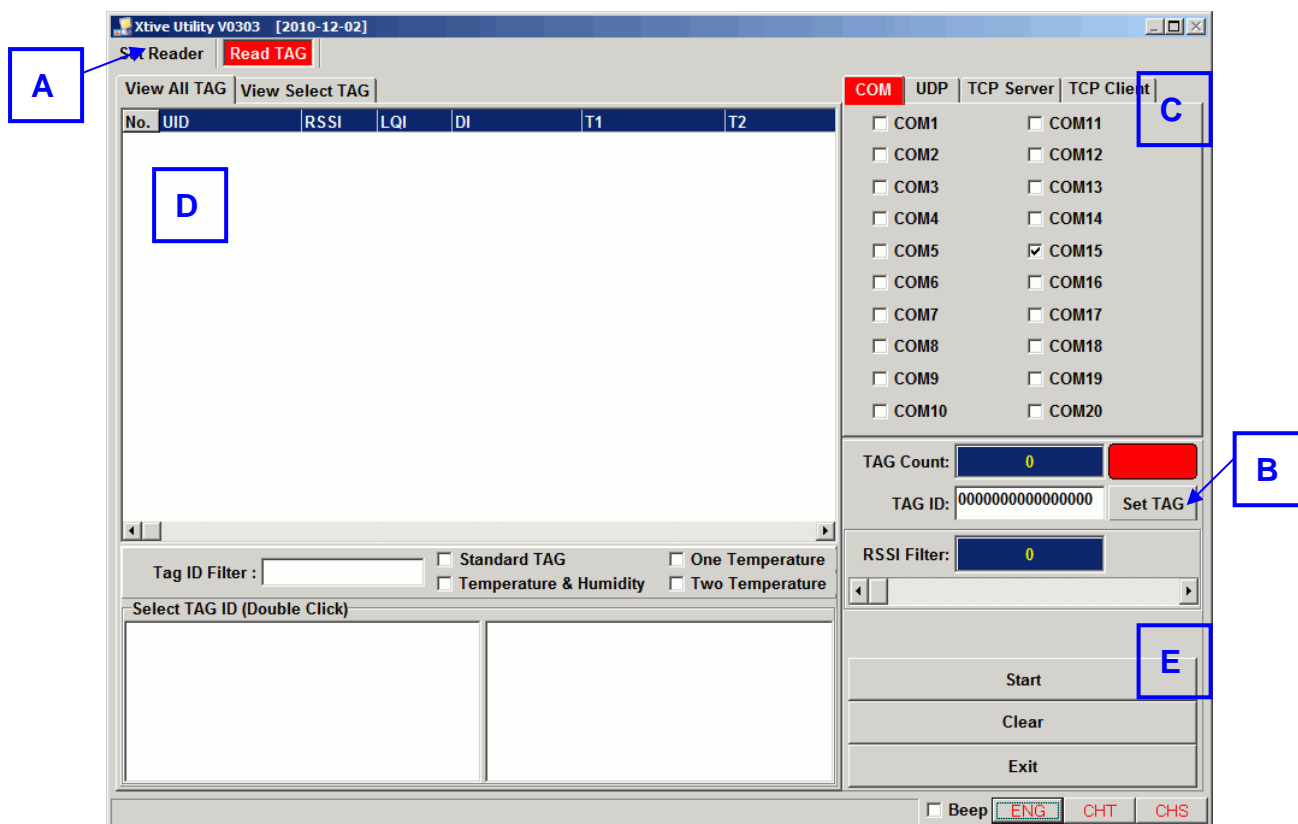
Xtive Utility User Manual



Version 3.1

2013/09/10

A. Xtive Utility program Introduction



A : Set Reader parameters.

B : Set Tag parameters.

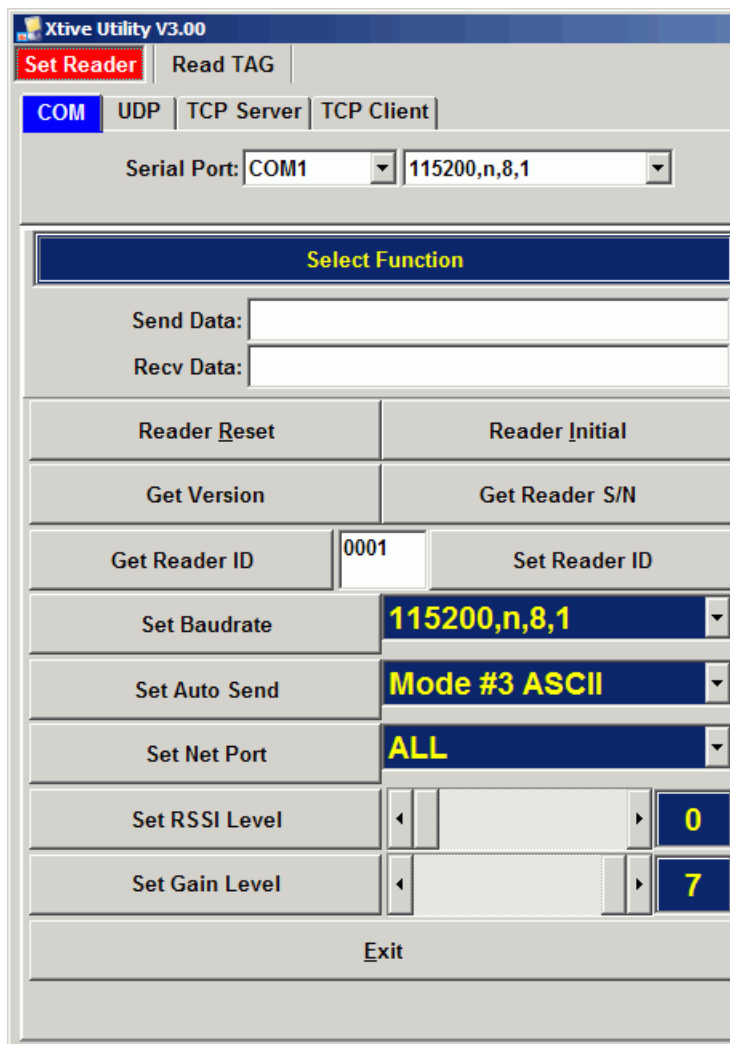
C : Select and modify correct operating mode to communicate with Reader.

D : Received TAG information.

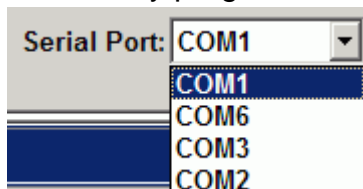
E : Start/Stop Read TAG 、 Clear received data 、 Exit program

B. Set Reader

1. Click Set Reader and select correct operating mode to communicate with Reader



2. Xtive Utility program will detect available Serial Port automatically.

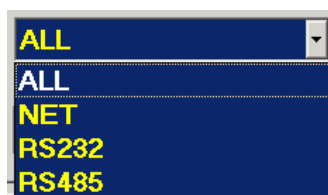


Select correct COM port to communicate with Reader.

3. If COM port select correctly, click **Reader Reset** will received command Ok.



4. **Reader Reset** : Reset online reader. Reader will warm restart.
5. **Reader Initial** : Initial online reader. All setting will set to factory default.
6. **Get version** : Get reader's firmware version.
7. **Get Reader S/N** : Get reader's serial number.
8. **Get ID**: Get the ID of the reader.
9. **Set ID**: Input the number to ID field and than click "Set ID" to change Reader's ID.
10. **Set Baudrate**: Select communication Baudrate and than click "Set Baudrate" to change Reader's Baudrate.
11. **Set Auto Send**: Change data format of TAG from reader to PC client.
12. **Set Net Port** : Select communication port and than click "Set Net Port" to change Reader's communication port.



Ex. Select NET to set transmit data via RJ-45.

Reader will transmit received data to NET, RS232 and RS485 when you set net port to ALL. But this mode will cause slow transmit speed.

13. **Set RSSI Level**: Adjust RSSI level (0~250) to filter TAG which have low RSSI signal in reader.

(This function was available in version 1.30 or above.)

Ex. Set RSSI Level to 120, Reader will receive tag which RSSI are stronger than 120.



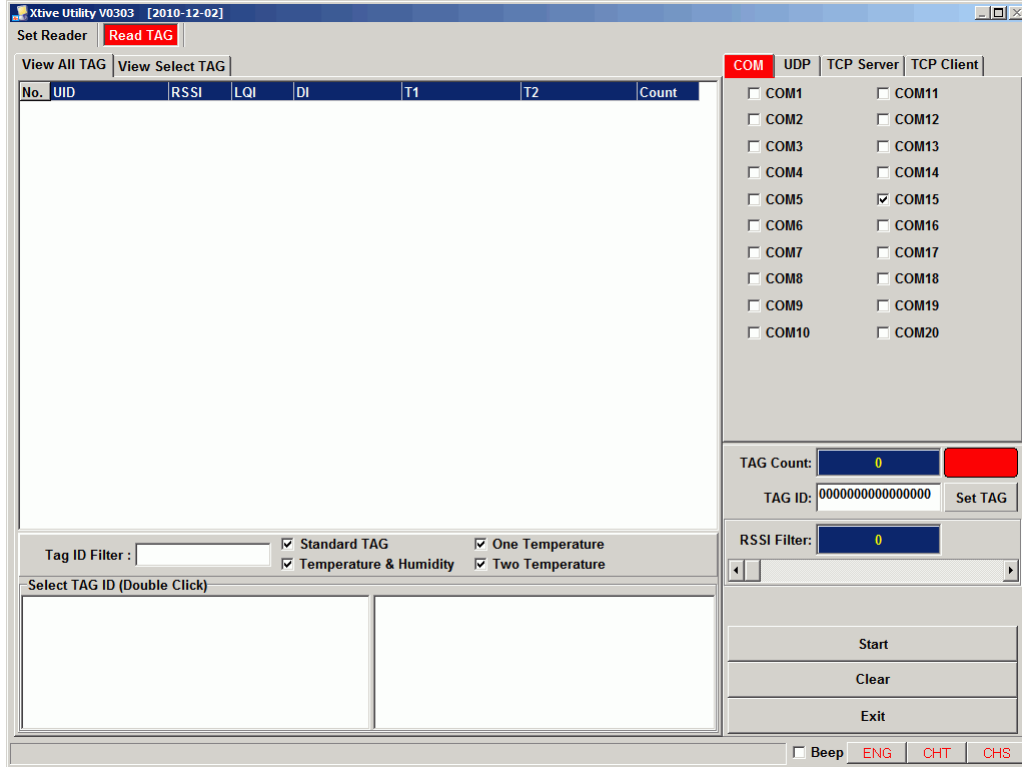
14. **Set Gain Level** : Adjust Gain level (1~7) to control reader's read range.
Level 7 is the max range (default setting), Level 1 is the shortest read range.



C. Read TAG

Select and modify correct IP address or COM port to communicate with Reader.

(You can communicate multi-reader at the same time)



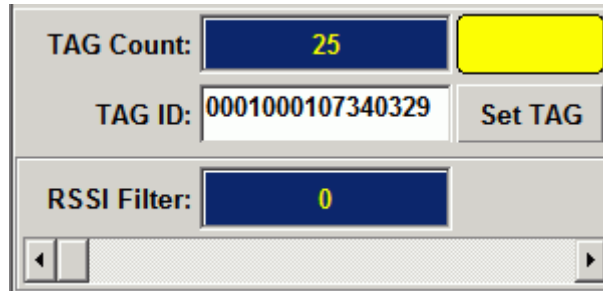
Select and modify correct operating mode to communicate with Reader.

Starting read TAG will receive Tag information from reader.

NO	UID	RSS	LQI	DI	T1	T2	Count
4	0001000107340312	110	217		-	-	6
5	0001000107340049	114	217		-	-	4
6	0001000107200044	110	181		-	-	2
7	0001000107081173	109	201		-	-	4
8	0001000107340488	99	175		-	-	4
9	0001000107340313	124	201		-	-	6
10	0001000107280058	136	223		-	-	6
11	0001000107200043	117	217		-	-	5
12	0001000107200046	111	231		-	-	6
13	0001000107340317	111	211		-	-	4
14	0001000107340318	104	201		-	-	2
15	0001000107360032	105	213		-	-	5
16	0001000107280059	137	197		-	-	4
17	0008011677770101	107	211		-	-	3
18	0001000107360036	100	185		-	-	4
19	0001000107340322	110	217		-	-	4
20	0001000107880017	100	141		-	-	1
21	0001000107110056	108	219		-	-	4
22	2007000106010001	136	233		-	-	5
23	0001000107340328	118	211		-	-	3
24	0001000107401207	100	205		-	-	4

TAG Count : The count of received TAG.

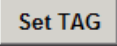
TAG ID : Current selected TAG ID.



The screenshot shows a software interface with three main sections. The top section has 'TAG Count:' with a blue box containing the number '25' and a yellow box to its right. The middle section has 'TAG ID:' with a white text box containing '0001000107340329' and a 'Set TAG' button to its right. The bottom section has 'RSSI Filter:' with a blue box containing the number '0'. Below these sections is a horizontal scrollbar.

RSSI filter: Adjust RSSI filter (0~255) to reject TAG which have low RSSI signal in this utility program.

Ex. Set RSSI filter to 100, utility program will show tag which RSSI stronger than 100.

Click  to set selected TAG's parameters.

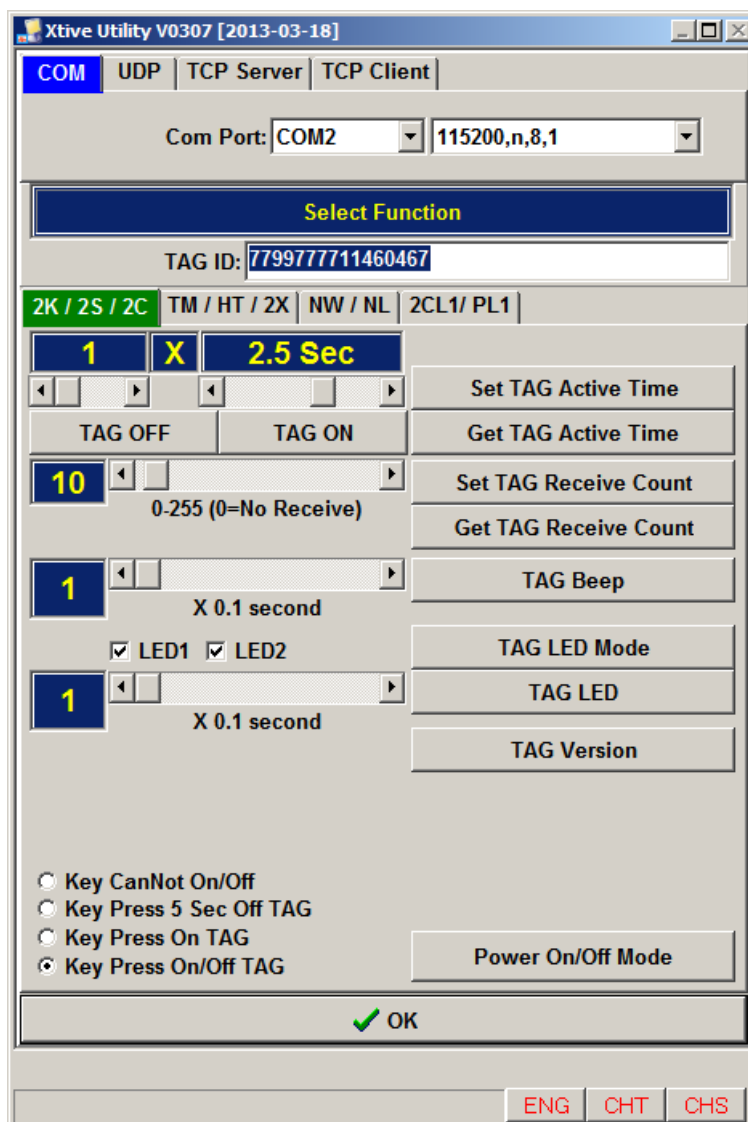
Field Introduction:

1. **UID** : Tag's identification number.
2. **RSSI** : Received Signal Strength Indication (0-255). Reading range and RSSI are inverse proportion.
3. **LQI** : Link quality indicator (0-255).
4. **DI** : TAG status and indicator.
 [BAT] means TAG battery was low.
 [SW] means TAG call button was clicked.
 [SENSOR] means light sensor have detect light. (Only for Wristband TAG)
 [START] means TAG restart.
 [MO] means TAG motion sensor was detected.
5. **T1** : Ambient temperature sensor
6. **T2** : Skin temperature sensor or humidity sensor.
7. **Count** : The receive count of TAG.

Note: T1 / T2 / SENSOR are use for anti-tamper capability.

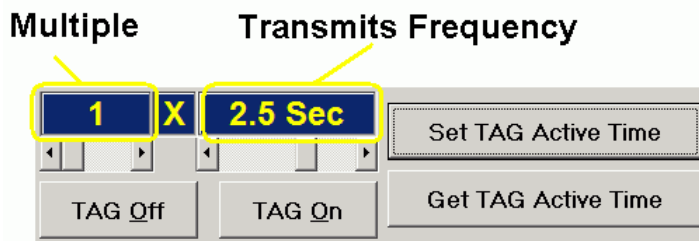
D. Set TAG

Click Set TAG and select correct operating mode to communicate with Reader to set selected TAG's parameters.



- TAG tab : 2K, 2S, 2C TAG
- TM tab : TM-A, TM-B, 2F1, 2F5 TAG
- HT tab : HT TAG
- 2X tab : 2X TAG
- NW/NL tab : NW, NL TAG

Tag Parameters Introduction :



1. **Set TAG Active Time:** Modify transmits frequency of selected TAG.

TAG Active Time = Multiple x Transmits Frequency

Ex. Set TAG active time to 1 minute:

Multiple (6) x Transmits Frequency (10 sec) = 60 sec

2. **Get TAG Active Time:** Get the current transmits frequency of selected tag.
3. **TAG Off:** Turn off selected TAG. TAG will stop signal transmission automatically.

(2S TAG can't access this command)

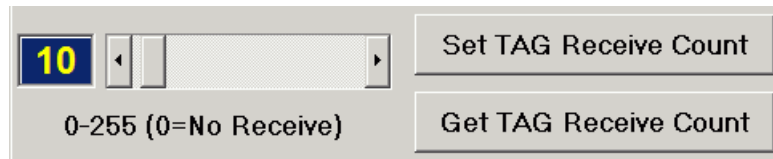


4. **TAG ON:** Turn on selected TAG. TAG will start signal transmission automatically.

(2S TAG can't access this command)



Note: Click Call button will increase communication speed when you set selected TAG parameters.



5. **Set TAG Receive Count:** Modify receive frequency of selected TAG.

TAG receive frequency = TAG Active Time x Receive Count

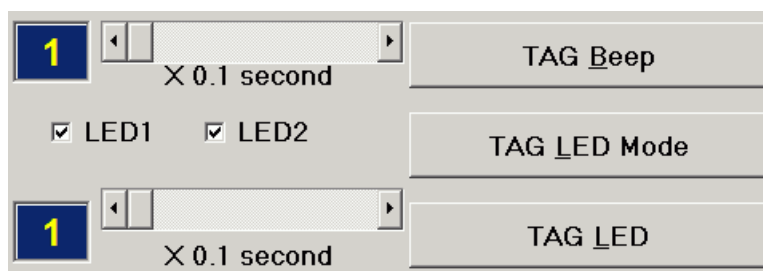
Ex. TAG Active time = 1 x 2.5sec Receive Count =10

TAG receive frequency = 1 x 2.5sec x 10 = 25 sec

Note: Set TAG receive count=0, TAG will stop received any signal from reader.
Remove the TAG case and reload battery to set factory default will solve this problem.

6. **Get TAG Receive Count:** Get the current receiving count of selected TAG.
7. **TAG Beep:** Remote TAG to beep. Adjust the beep second to set time of beep on. (Only for Wristband TAG & Card TAG)

Ex. Set Beep second to 30 and then click "TAG Beep". TAG will beep for 3 seconds when received this command.

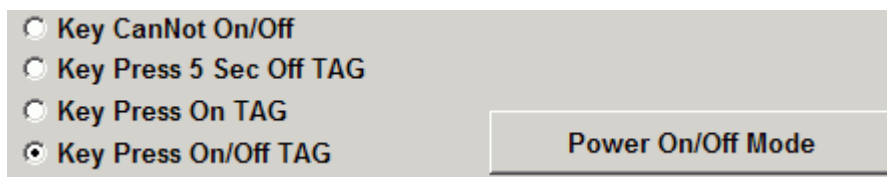


8. **TAG LED Mode:** Set selected TAG LED mode. (Only for Wristband TAG & Card TAG)
- Mark "LED1" and then click "TAG LED Mode", LED flash indicates that tag is transmitting the signal.
 - Mark "LED2" and then click "TAG LED Mode", red LED on indicates the low battery.

9. **TAG LED:** Turn on the LED of selected TAG. Adjust the LED second to set time of LED on.

Ex. Set LED second to 30 and then click “TAG LED”. TAG will turn on the LED for 3 seconds when received this command.

10. **Power On/Off Mode :** 4 types for tag on/ off mode.



Key CanNot On/Off
 Key Press 5 Sec Off TAG
 Key Press On TAG
 Key Press On/Off TAG

Power On/Off Mode

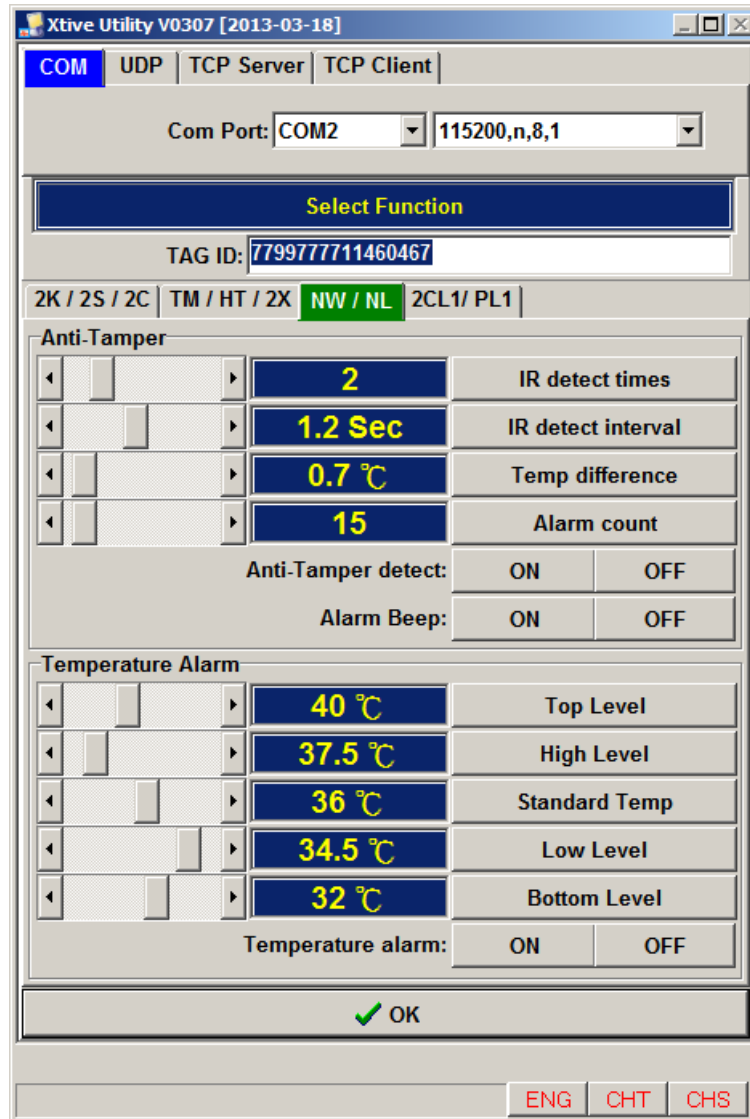
Key can not ON/OFF means you can't turn on/off tag with call button.

Key press 5 sec off tag means you can turn off tag with call button, but can't turn on tag with call button.

Key press on tag means you can turn on the tag with call button, but can't turn off tag with call button.

Key Press On/Off TAG means you can turn on/off tag with call button.

NL/NW parameters setting:



The screenshot shows the 'Xtive Utility V0307 [2013-03-18]' window. At the top, there are tabs for 'COM', 'UDP', 'TCP Server', and 'TCP Client'. Below these, 'Com Port' is set to 'COM2' and '115200,n,8,1'. A 'Select Function' button is present, followed by a 'TAG ID' field containing '7799777711460467'. The main interface has tabs for '2K / 2S / 2C', 'TM / HT / 2X', 'NW / NL', and '2CL1 / PL1', with 'NW / NL' selected. The 'Anti-Tamper' section includes:

- IR detect times: 2
- IR detect interval: 1.2 Sec
- Temp difference: 0.7 °C
- Alarm count: 15
- Anti-Tamper detect: ON / OFF
- Alarm Beep: ON / OFF

 The 'Temperature Alarm' section includes:

- Top Level: 40 °C
- High Level: 37.5 °C
- Standard Temp: 36 °C
- Low Level: 34.5 °C
- Bottom Level: 32 °C
- Temperature alarm: ON / OFF

 At the bottom, there is an 'OK' button with a green checkmark, and three language buttons: 'ENG', 'CHT', and 'CHS'.

Anti-Tamper : (only support SYTAG245-NW)

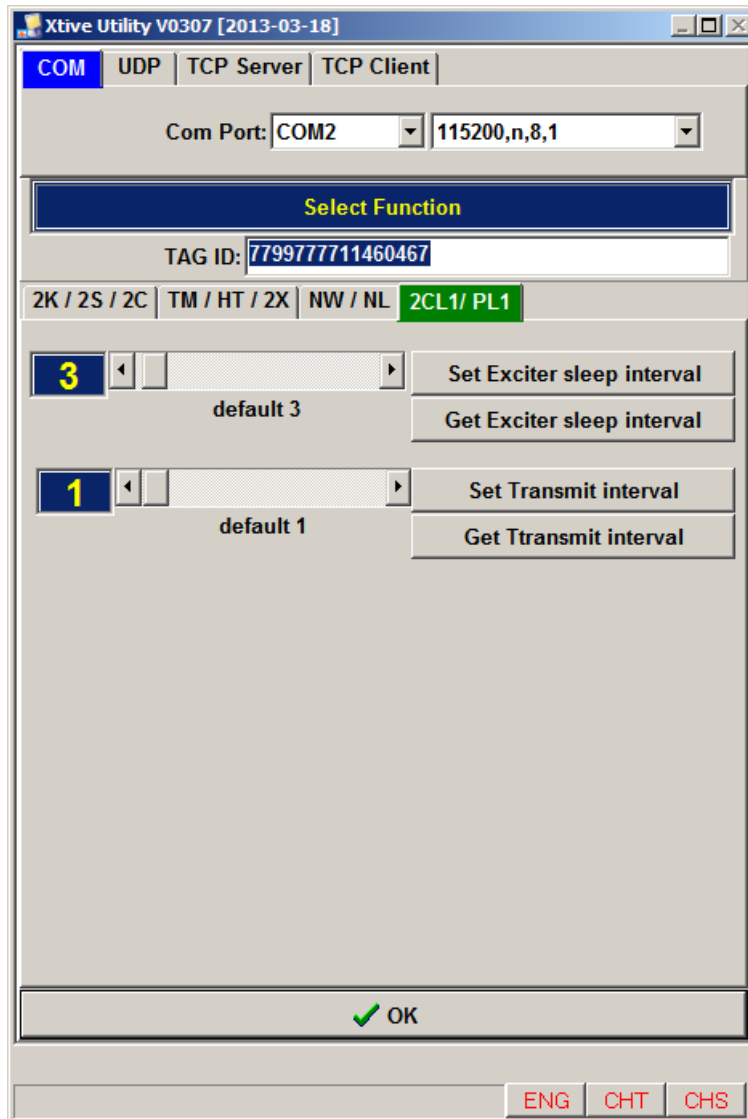
1. IR detect times : The value of IR sensor detect times when anti-tamper was triggered with motion sensor. Default value are 2 times. (Set IR detect times value bigger, the anti-tamper will more sensitive.)
2. IR detect interval : Infrared Sensor detect interval, Default interval are 1.2 second (Set interval value smaller, the anti-tamper will more sensitive)

3. Temp difference : Tag will alarm when infrared sensor detect temperature difference over than 0.7°C. (Set temperature difference value smaller, the anti-tamper will more sensitive)
4. Alarm count : Set alarm counts after anti-tamper was triggered with motion sensor.
5. Anti-Tamper detect : Set anti-tamper detect function ON/OFF

Temperature Alarm :

1. Top Level : Blink purple light Level. Default is 40°C.
2. High Level : Blink yellow and orange light Level. Default is 37.5°C.
3. Standard Temp : Standard temperature setting. Default is 36°C.
4. Low Level : Blink green light Level. Default is 34.5°C.
5. Bottom Level : Blink blue light Level. Default is 32°C.
6. Temperature alarm : Set temperature alarm function ON/OFF

2CL1/PL1 parameters setting



1. Exciter sleep interval : Set tag's exciter sensor sleep interval.
Ex.
Set Exciter sleep interval to 3, tag's exciter sensor will sleep 3 times (1 time = 1 x 2.5 sec) and wake up to receive exciter's signal.
Set Exciter sleep interval to 5 and set active time to 1 x 0.6 sec, tag's exciter sensor will sleep 3 sec and wake up to receive exciter's signal.
2. Transmit interval : Set tag's transmit interval in non-excite mode.
Ex.
Set Transmit interval to 8 and set active time to 1 x 2.5 sec.
Tag will transmit signal to reader every 2.5 sec in excite mode and transmit signal to reader every 20 sec in non-excite mode.