

TP Tool



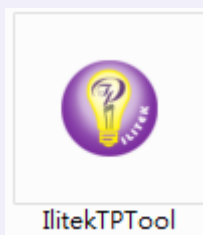
The ILITEK logo is prominently displayed in the center of the slide. It features the word "ILITEK" in a bold, purple, sans-serif font. Below it, in a smaller, black, sans-serif font, are the words "ILI TECHNOLOGY CORP." and "奕力科技股份有限公司". To the right of the text is a small graphic of four squares arranged in a 2x2 grid. Surrounding the logo are several small icons: a blue laptop, a green circuit board, a white handheld device, a purple square, and a blue calculator. A large, light gray oval shape is positioned behind the logo and icons.

Enrich visual experience

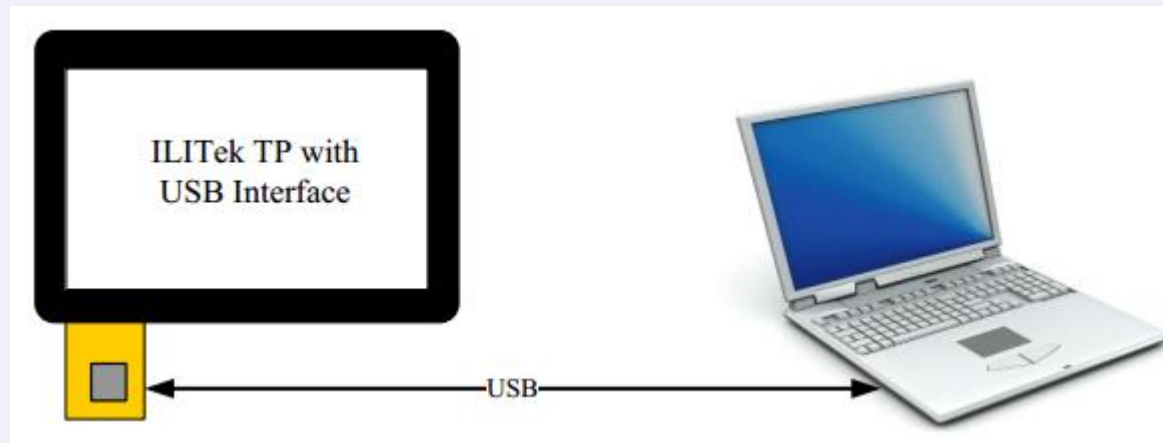
SH FAE

- ◆ 简介
- ◆ 接线
- ◆ 主界面介绍
- ◆ Setting
- ◆ Console
- ◆ Painting
- ◆ FW Upgrade
- ◆ CDC Tool
- ◆ Record&Play

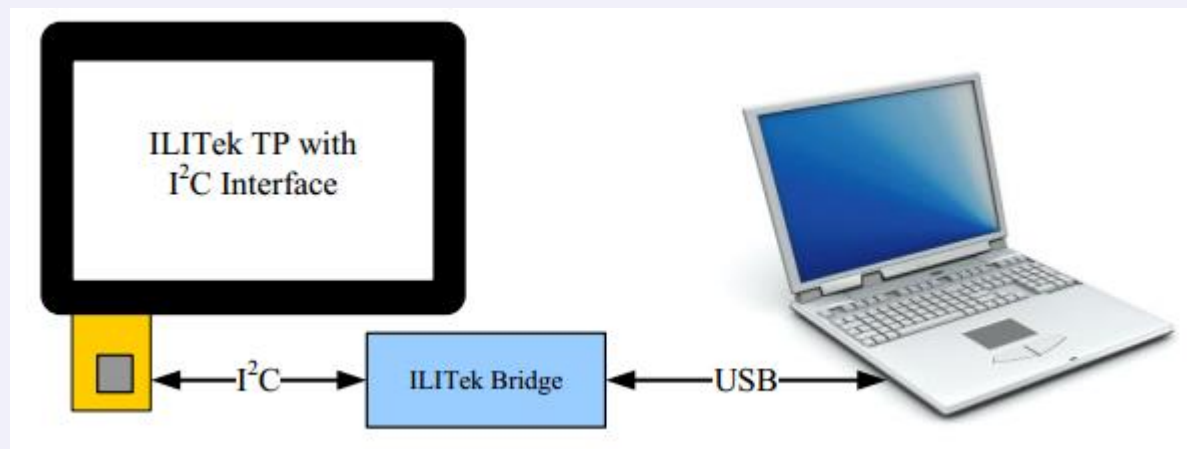
- ◆ ILITek TP Tool支持USB和I2C两种接口，它用于调试ILITek所开发的电容触控面板



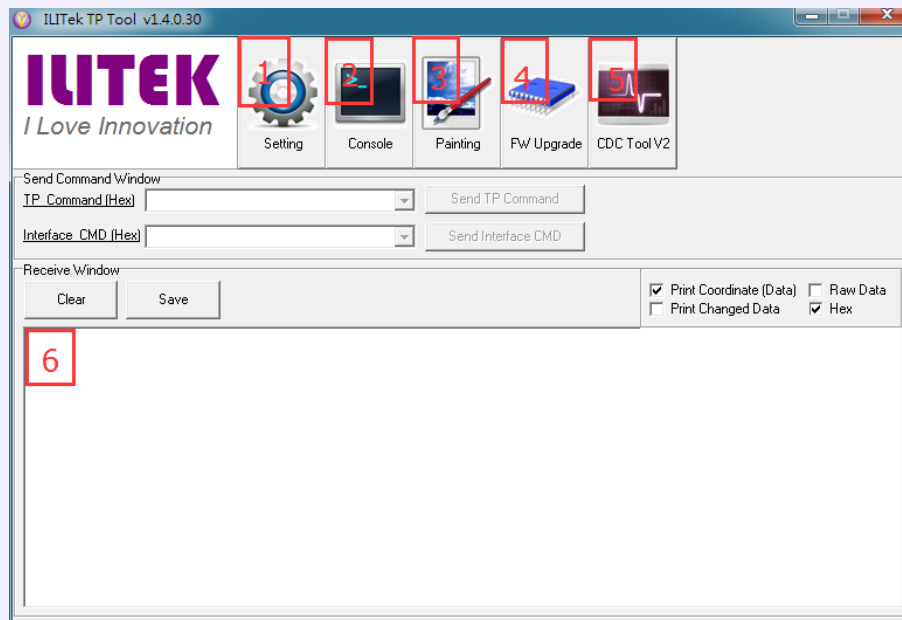
◆ USB接线



◆ I2C 接线



主界面介绍



项次	名称	描述
1	Setting	界面与功能设定
2	Console	显示从触控面板接收到的资料
3	Painting	绘图工具
4	I2C Bootloader	I2C更新FW工具
5	CDC Tool V2	触摸板触摸数据
6	Receive Window	显示接收到的额资料



1.接口选择

2.支持的手指数量选择

3.I2C接口的协议选择

4.窗口大小选择

5.设置完点击OK

Ilitek TP Demo: Setting

Interface Setting

Interface Select: ☐ USB 1 ☐ I2C ☒ USB(WIN8) **2** Finger Numbers: 10

Bridge HW V7 Only: VDD: 3.3V VDIQ: 3.3V

Bridge Setting

I2C Protocol Select: ILITek Protocol V2.X **3**

8-bit Address1: 0x82 8-bit Address2: 0xBA

Bridge Sampling Control: Interrupt Mode: Active Low INT Active State: Active Low CMD_StableTime (ms): 10

Set Bridge Clock: 400KHz

Position CMD: 0x10 CMD Length: 9

Resolution CMD: 0x20 CMD Length: 8

X Max Low: 1 X Max High: 2 Y Max Low: 3 Y Max High: 4

Report Format

Status Status Check Touch Value UnTouch Value X Low X High Y Low Y High

Canvas Setting

Canvas SizeSel: ☒ Full Screen **4** ☐ 1 Resolution ☐ 1/2 Screen ☐ 1/2 Resolution ☐ 1/4 Screen ☐ 1/4 Resolution ☐ User Defined ☐ 1/8 Resolution

Canvas H: 1366 V: 768

Inverse X: ☐ Inverse Y: ☐

Resolution X: 16384 Y: 9600

Channel # X: 87 Y: 49

I2C Bootloader

Rom File:

Module Test

☐ Log File Saving ☐ Auto Run ☐ Auto Off

Test Item:

☐ FW Version Check FW Ver: 0 0 0

☐ All Node Test

☐ Trace Loading Test

☐ Mass Production Calibration

☐ Edge Test

☐ Cross Test (X)

☐ 13 Points Test

☐ Dual Points Test

Count Down (Sec): 0

☐ Single Line Test

☐ Dual Line Test

Line Test Condition: 128

Count Down (Sec): 0

OK **5**

Function Setting

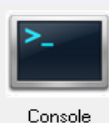
☒ Setting ☒ Console ☒ Painting ☐ CDC Tool ☒ I2C Bootloader ☐ Calibration ☐ Edge Test ☐ 13 Points Test ☐ Module Test ☒ CDC Tool V2

☒ Send CMD ☒ Receive CMD ☒ Report Rate ☐ CDC Full Screen ☒ Show Update

☒ Draw Line ☐ Draw Ball ☐ Draw L.R.

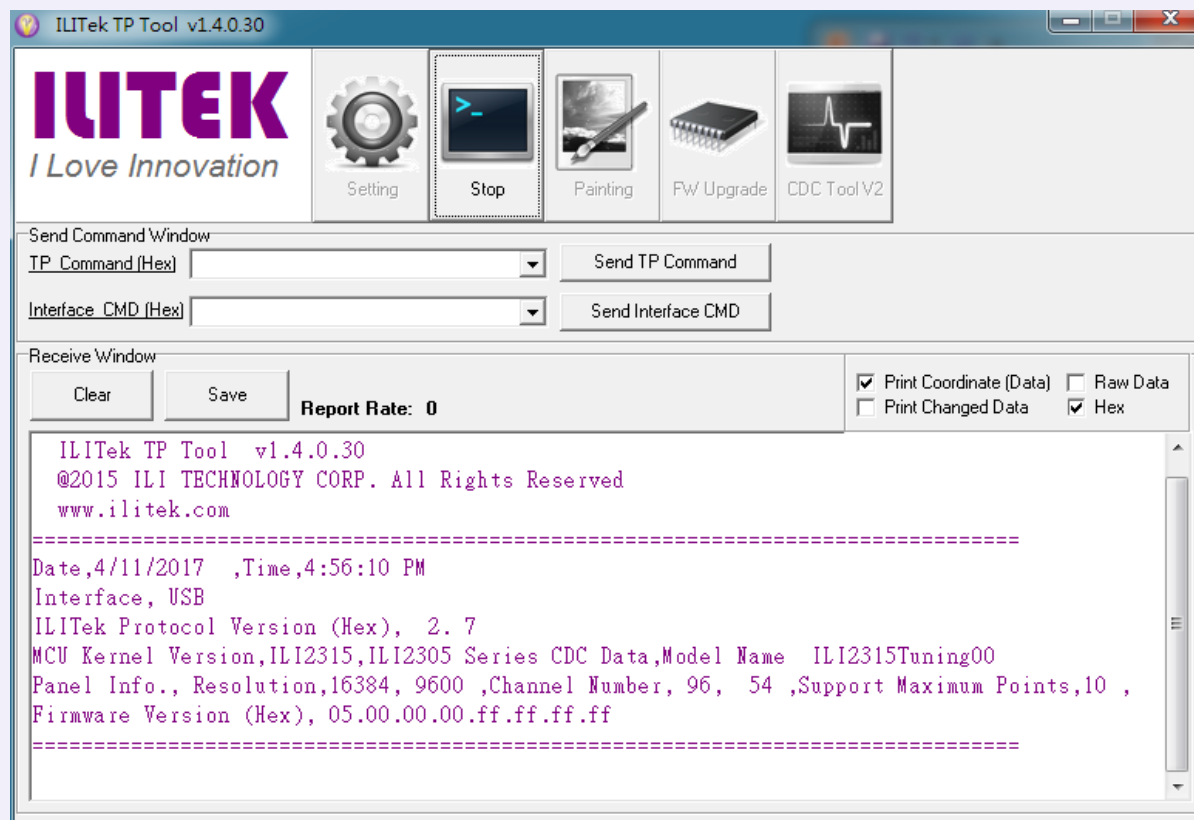
Save





Console

后，触摸控制板内FW信息在Receive Window显示







Painting

用于画线测试

ILITEK
I Love Innovation

Clear: 'C'

清除当前画线

Exit: 'Esc'

退出

FW Upgrade

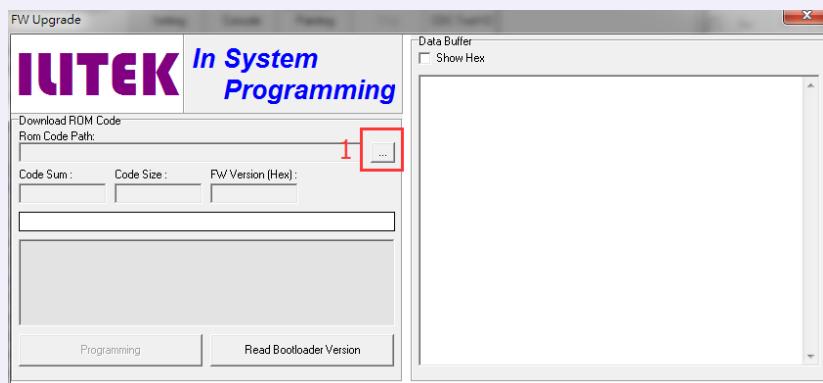
I ♥ Innovation



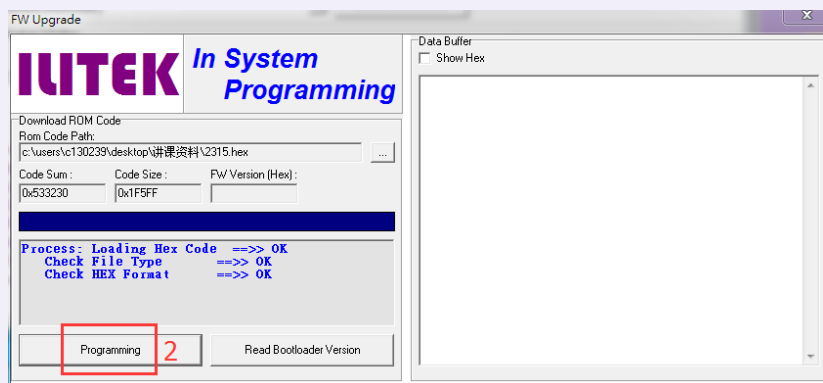
FW Upgrade

用于烧写FW

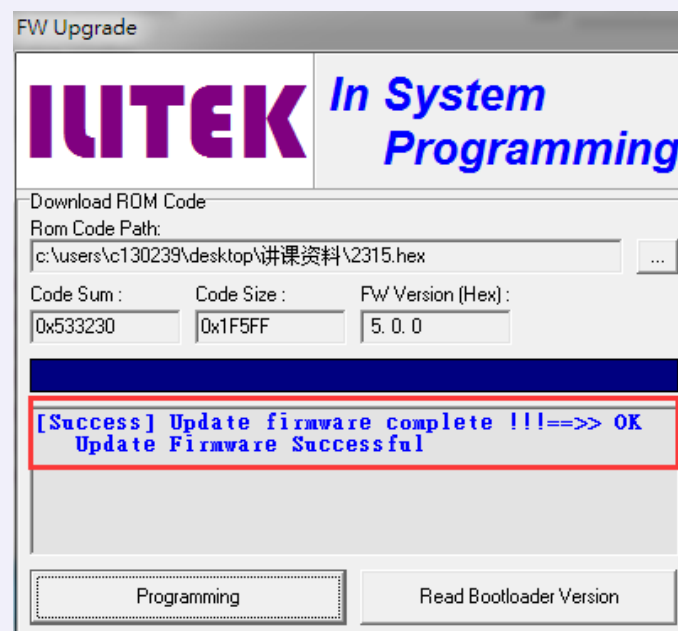
1. 选择FW



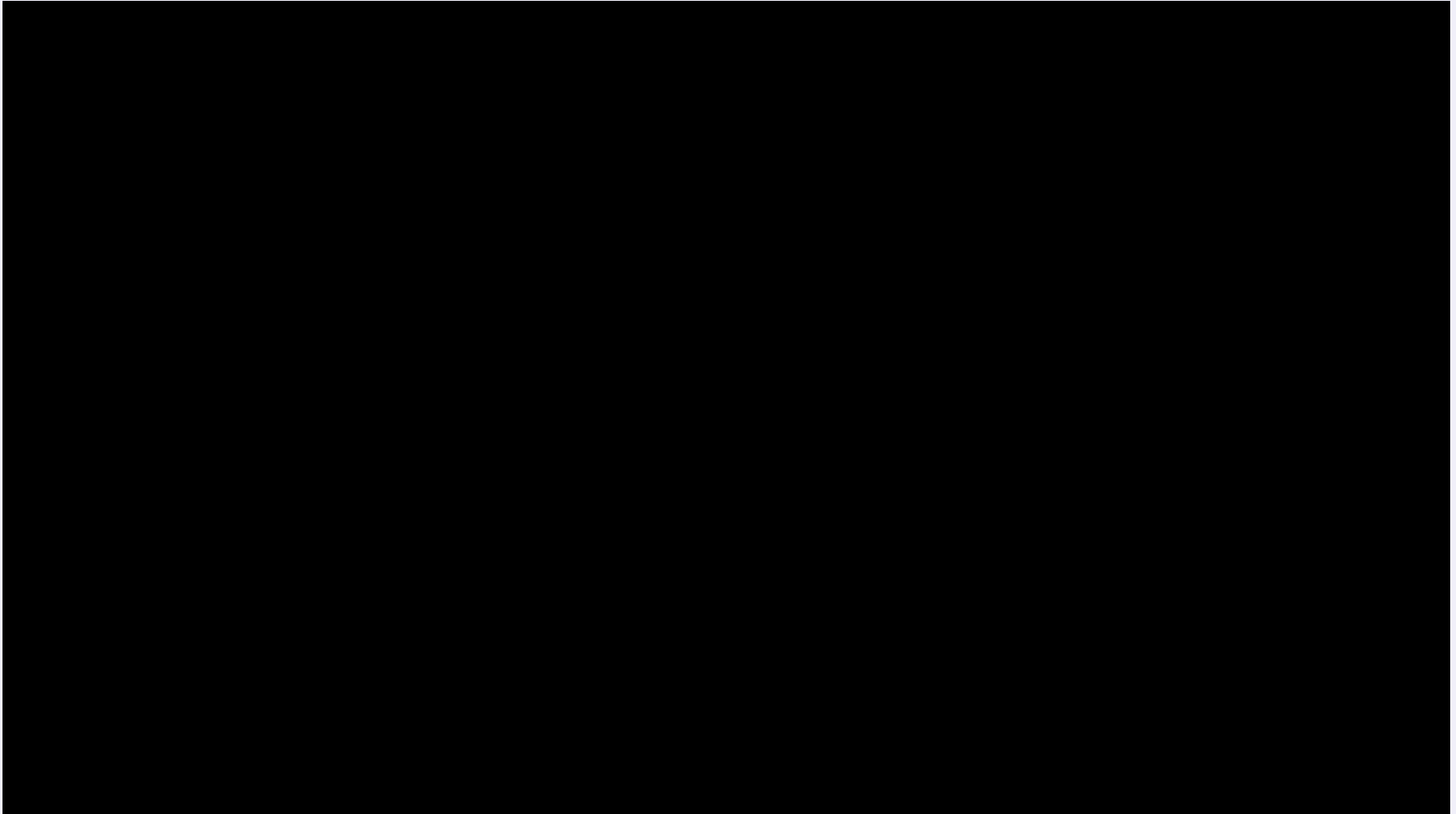
2. 点击 Programming 开始烧写固件

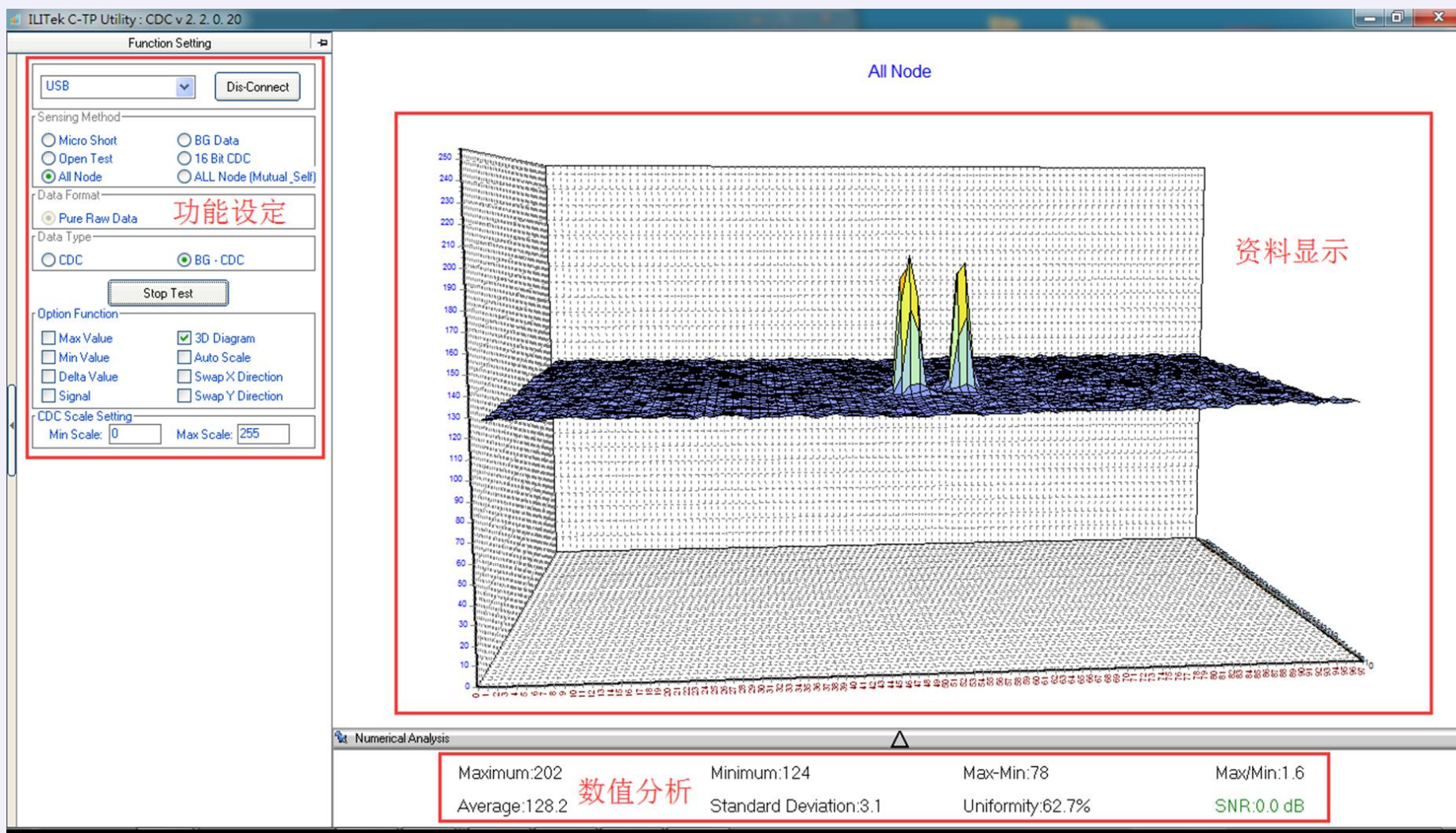


3. 出现 Update Firmware Successful 即完成烧录



◆ Operation





名称	描述
Sensing Method	资料转换方法选择
Data Format	资料格式选择
Data Type	资料种类选择
Option Function	功能选择
CDC Scale Setting	CDC刻度设置
BG-CDC	手指按压时测得的感应量
3D Diagram	用3D图显示资料

USB
Dis-Connect

Sensing Method

☐ Micro Short
☐ BG Data
☐ Open Test
☐ 16 Bit CDC
☒ All Node
☐ ALL Node (Mutual_Self)

Data Format

☒ Pure Raw Data

Data Type

☐ CDC
☒ BG - CDC

Stop Test

Option Function

☐ Max Value
☒ 3D Diagram
☐ Min Value
☐ Auto Scale
☐ Delta Value
☐ Swap X Direction
☐ Signal
☐ Swap Y Direction

CDC Scale Setting

Min Scale: 0
Max Scale: 255

Maximum:202	Minimum:124	Max-Min:78	Max/Min:1.6
Average:128.2	Standard Deviation:3.1	Uniformity:62.7%	SNR:0.0 dB

数值分析

项次	名称	描述
1	Maximum	当前资料的最大值
2	Minimum	当前资料的最小值
3	Max-Min	最大值减去最小值
4	Max/Min	最大值除以最小值
5	Average	当前资料的平均值
6	Standard Deviation	当前资料的标准差
7	Uniformity	平整度计算

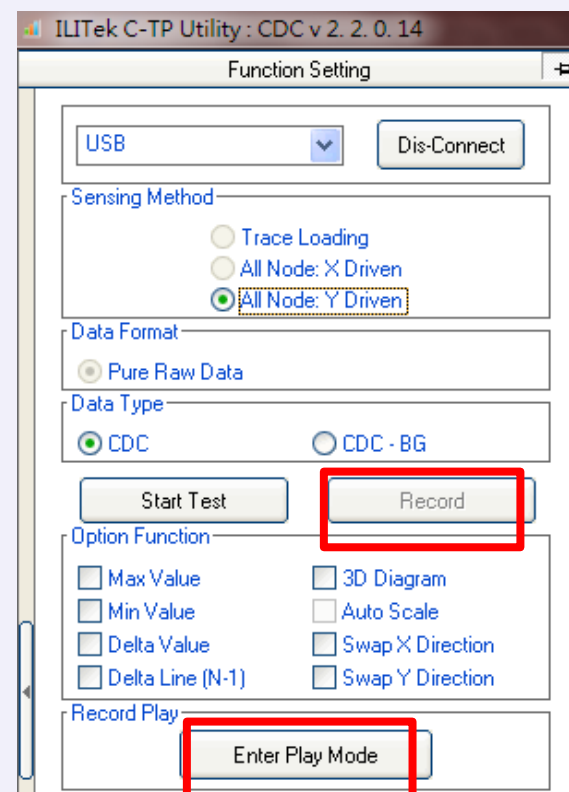
TP Tool的录制与播放功能主要是为了在初调阶段或者是客户端发生问题时，能第一时间收集sensor rawdata,以反馈IC厂有效的信息

使用TP Tool的记录与播放功能，需要注意以哪个版本录制的就需要以哪个版本播放

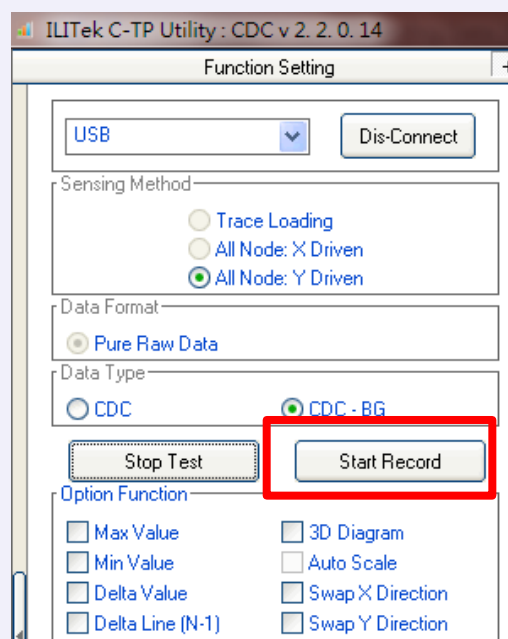
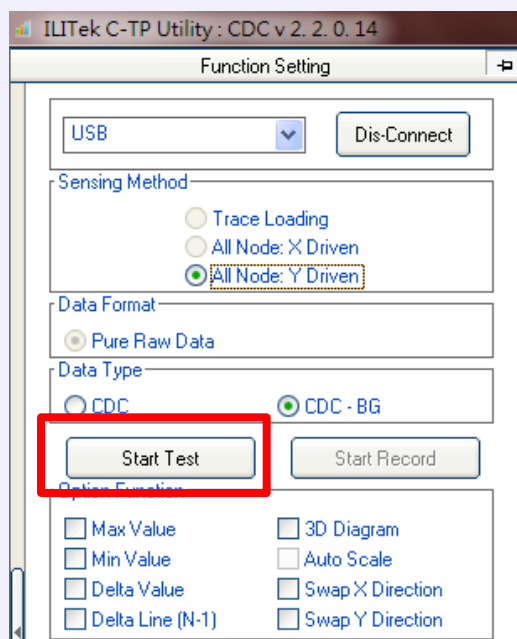
例：以V1.4.0.19录制的档案就需要用V1.4.0.19的Tool播放

◆ 设置

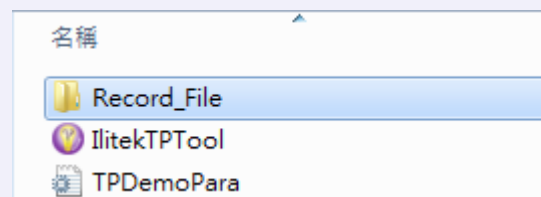
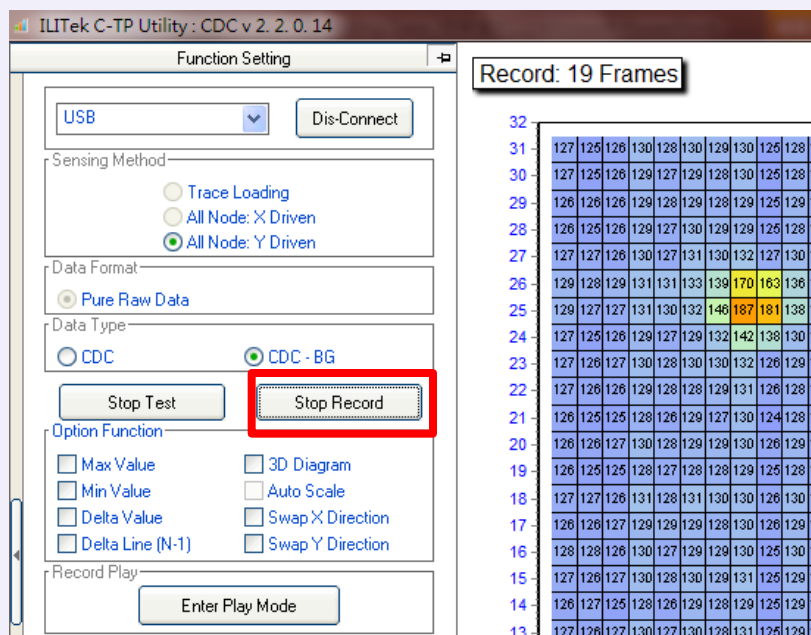
- 1.在TP Tool路径下，以文本方式打开TP DemoPara档案
- 2.在文本内容【SETTING】后面直接加入一行设定参数
Record&Play=1在存档
- 3.存档后双击打开ILITek TP Tool  IlitekTPTool
- 4.打开CDC Tool ，connect后发
现有多出Record与Play的选项按钮，表
示设定成功。



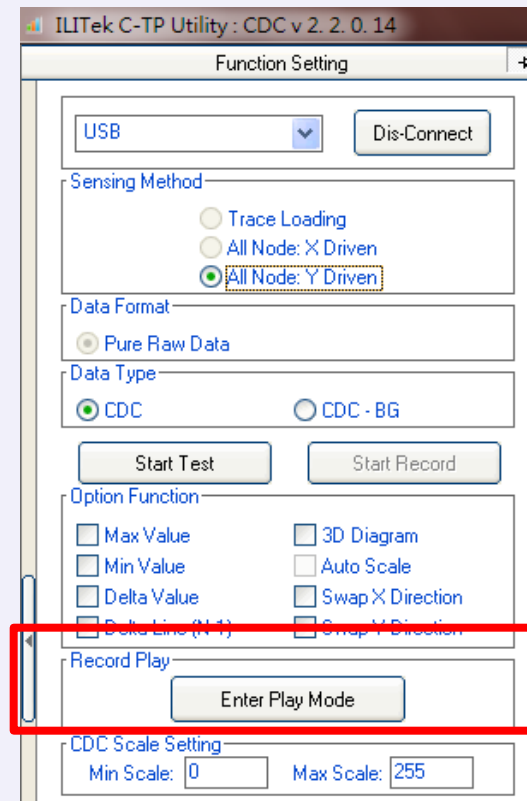
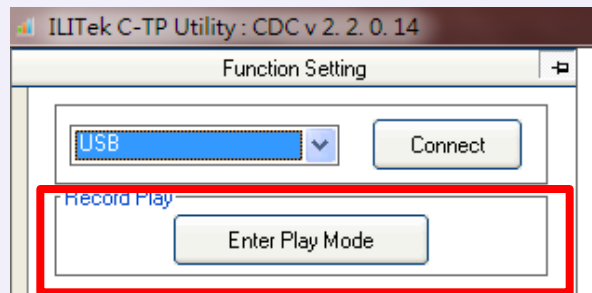
- ◆ 连接上TP装置后，打开CDC Tool
- ◆ 点选Connect后按Start Test
- ◆ 此时可以点选Start Record开始记录资料



- ◆ Tool会将每一面Frame记录下来直到按下Stop Record
- ◆ 记录的档案会保存在TP Tool路径下的Record File子目录



◆ 在Connect与Dis-Connect情况下接可进入Play mode



◆ 点选Enter Play Mode的按钮会进入下面画面

ILITek C-TP Utility : CDC v 2. 2. 0. 14

NO. 1 Frame

2015_09_21_16_56_23.csv
2015_09_21_16_42_37.csv

D:\Tools\ILITEK_TP_TOOL\TPTool_v1.4.0.21_20150807_Bridge1605\TPTool_v1.4.0.21\Record_File\2015_09_21_16_56_23.csv

Option Function

- ☐ 3D Diagram
- ☐ Swap X Direction
- ☐ Swap Y Direction

Repeat
From: 1
To: 93

离开播放页面

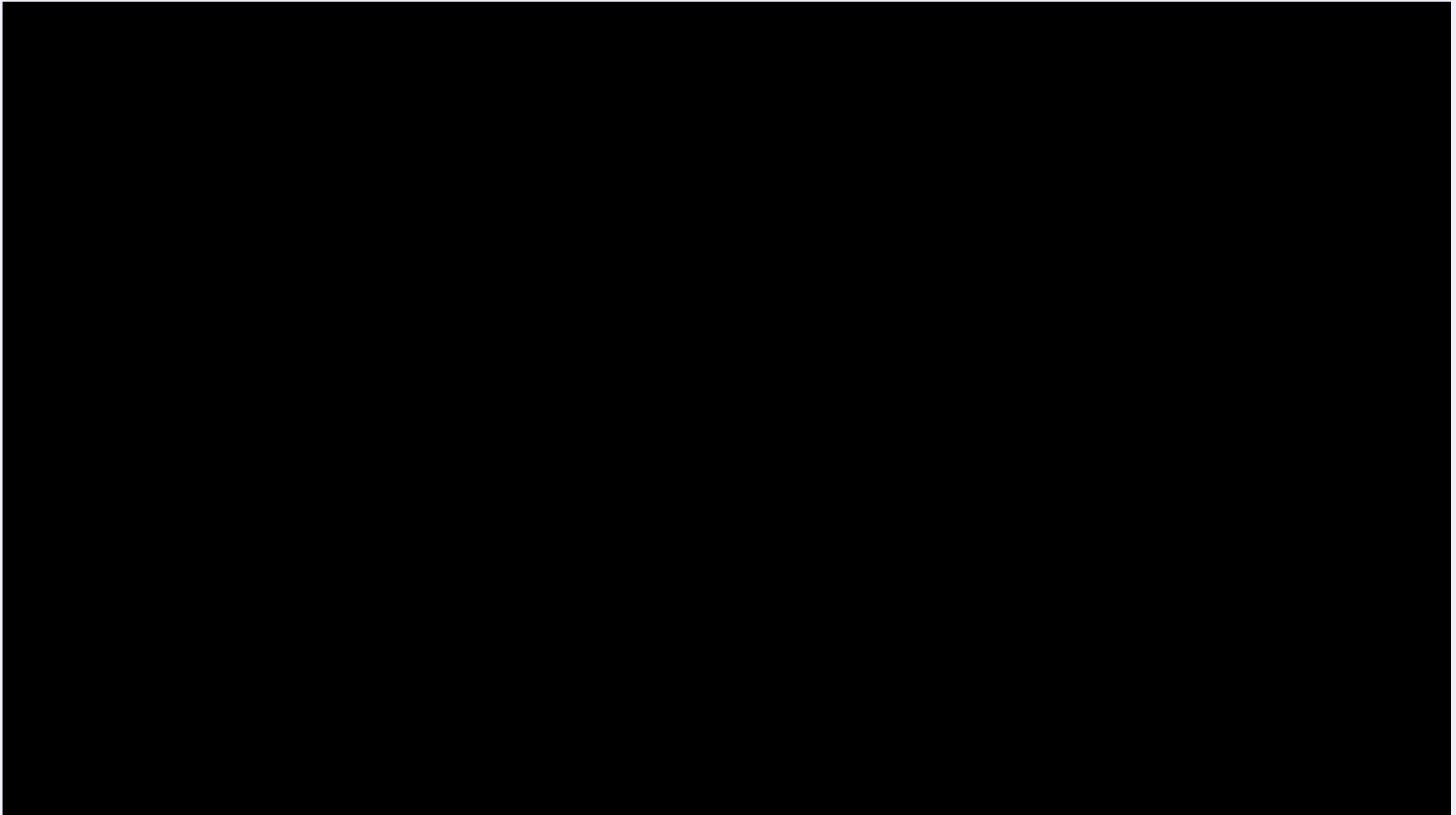
打开记录档

播放

暂停

停止

暂停时可以切换上一面或者下一面资料



ILITEK

Enrich Visual Experience

Thank You