

Tablet USB&RF User Guide

Interface Specification 1.3

Revised September, 2020

Target Platform: Windows

1、设备初始化

User Interface	signInitialize 只有初始化成功，才能进行后续操作
Declare	int signInitialize ();
Parameters	/
Return Values	If the function succeeds, the return value is ERR_OK . If the function fails, the return value is ERR_DEVICE_OPENFAIL .
Remarks	

2、释放资源

User Interface	signClean
Declare	int signClean ();
Parameters	/
Return Values	资源释放成功，返回 ERR_OK .
Remarks	

3、获取设备状态

User Interface	signGetDeviceStatus Find available tablet devices.
Declare	int signGetDeviceStatus ();
Parameters	/
Return Values	设备可用时，返回 ERR_OK . 无找到可用设备时，返回 ERR_DEVICE_NOTFOUND .
Remarks	

[4]打开签名手写板

User Interface	signOpenDevice
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Declare	int signOpenDevice ();
Parameters	/
Return Values	设备打开成功，返回 ERR_OK . 无法打开设备，返回 ERR_DEVICE_XXX . See the definition table for more details.
Remarks	

[5] 关闭签名手写板

User Interface	signCloseDevice
Declare	int signCloseDevice ();
Parameters	/
Return Values	The return value is ERR_OK .
Remarks	

[6]获取手写板信息

User Interface	signGetDeviceInfo
Declare	int signGetDeviceInfo (TABLET_DEVICEINFO* lpDeviceInfo);
Parameters	lpDeviceInfo [in] Pointer to the TABLET_DEVICEINFO structure that receives information about the device.
Return Values	If the function succeeds, the return value is ERR_OK . If the function fails, the return value is ERR_DEVICE_XXX . See the definition table for more details.
Remarks	<p>TABLET_DEVICEINFO</p> <pre>typedef struct tagAXIS { unsigned long min; unsigned long max; }AXIS,*PAXIS; //device information typedef struct tagTABLET_DEVICEINFO { AXIS axisX; //X 范围 AXIS axisY; //Y 范围 unsigned long pressure; //压感最大值 char vendor[32]; //产商名称 char product[32]; //产品名称 unsigned long version; //dll 的版本 char serialnum[32]; //设备序列号 }TABLET_DEVICEINFO,*PTABLET_DEVICEINFO;</pre>

[7]注册手写数据回调函数

User Interface	signRegisterDataCallBack
Declare	int signRegisterDataCallBack (PACKDATAPROC lpPackDataProc);
Parameters	lpPackDataProc 指向回调函数 The PACKDATAPROC type defines a pointer to this callback function.
Return Values	If the function succeeds, the return value is ERR_OK . If the function fails, the return value is ERR_INVALIDPARAM .
Remarks	PACKDATAPROC <pre> typedef int (CALLBACK * PACKDATAPROC) (PDATAPACKET pktObj); // PDATAPACKET structure typedef struct tagDATAPACKET { EventType eventtype; //事件类型 4 unsigned short physical_key; //物理按键 2 unsigned short virtual_key; //虚拟按键 2 KeyStatus keystatus; //按键状态 4 PenStatus penstatus; //笔状态 4 unsigned short x; //x坐标 2 unsigned short y; //y坐标 2 unsigned short pressure; //压感 2 short wheel_direction; //滚轮 2 unsigned short button; //笔身按键 2 }DATAPACKET, *PDATAPACKET; enum EventType { EventType_Pen = 1, EventType_Key = 2, EventType_Eraser = 3, EventType_Wheel = 4, EventType_ALL = 0xfe }; enum PenStatus { PenStatus_Hover, PenStatus_Down, PenStatus_Move, PenStatus_Up, </pre>

	<pre>PenStatus_Leave }; enum KeyStatus { KeyStatus_Up, KeyStatus_Down };</pre> <p>When the <code>eventtype</code> is <code>EventType_Key</code>, if <code>physical_key</code> is greater than 0, gets the physical key mask status</p> <pre>bool Pkey_01 = physical_key&(0x1<<0); bool Pkey_02 = physical_key&(0x1<<1); bool Pkey_03 = physical_key&(0x1<<2); bool Pkey_04 = physical_key&(0x1<<3); ...</pre> <p>if <code>virtual_key</code> is greater than 0, get the key number</p> <pre>int Vkey = virtual_key;</pre>

4、注销手写笔数据回调函数

User Interface	<code>signUnregisterDataCallBack</code>
Declare	<code>void signUnregisterDataCallBack (long handler);</code>
Parameters	handler 指向注册手写数据回调函数句柄
Return Values	/
Remarks	

[9]注册状态回调函数

User Interface	signRegisterDevNotifyCallBack
Declare	int signRegisterDevNotifyCallBack (DEVNOTIFYPROC lpDevNotifyProc);
Parameters	lpDevNotifyProc 指向回调函数
Return Values	If the function succeeds, the return value is ERR_OK . If the function fails, the return value is ERR_INVALIDPARAM .
Remarks	DEVNOTIFYPROC <pre> typedef int (CALLBACK * DEVNOTIFYPROC) (PENVPACKET pktObj); typedef struct tagSTATUSPACKET { INT penAlive; INT penBattery; INT status; //0 DISCONNECTED 1 CONNECTED 2 SLEEP 3 AWAKE 4 BATTERY }STATUSPACKET,* PSTATUSPACKET; </pre>

[10]注销状态回调函数

User Interface	signUnregisterDevNotifyCallBack
Declare	void signUnregisterDevNotifyCallBack (long handler);
Parameters	handler 指向注册时状态回调函数句柄
Return Values	/
Remarks	

[11]注册触摸回调函数

User Interface	signRegisterTouchCallBack
Declare	void signRegisterTouchCallBack (long handler);
Parameters	lpDevNotifyProc [in]Pointer to the callback function. The TOUCHPROC type defines a pointer to this callback function.
Return Values	If the function succeeds, the return value is ERR_OK . If the function fails, the return value is ERR_INVALIDPARAM .
Remarks	TOUCHPROC <pre> typedef int (_stdcall * TOUCHPROC) (TOUCHDATA td); enum TouchStatus { TouchStatus_Up, TouchStatus_Down, TouchStatus_Move }; typedef struct tagTOUCHDATA { TouchStatus status[10]; unsigned int x[10]; unsigned int y[10]; }TOUCHDATA, *PTOUCHDATA; </pre>

[12]注销触摸回调函数

User Interface	signUnregisterTouchCallBack Unregister the touch data callback function.
Declare	void signUnregisterTouchCallBack (long handler);
Parameters	handler [in] Handle returned by the signRegisterTouchCallBackcallback function.
Return Values	/
Remarks	

[13]设备切换模式

User Interface	signChangeDeviceMode
Declare	int signChangeDeviceMode(int mode);
Parameters	mode 模式值
Return Values	If the function succeeds, the return value is ERR_OK . If the function fails, the return value is ERR_ ERR_NOSUPPORTED or ERR_DEVICE_OPENFAIL .
Remarks	<pre>//run mode enum DeviceRunMode { DeviceRunMode_Mouse = 1, //鼠标模式 DeviceRunMode_Pen = 2, //笔模式 DeviceRunMode_MousePen = 3, //鼠标和笔模式 DeviceRunMode_StdPen = 4 //standard pen };</pre>

[14]获取签名区域

User Interface	signGetScreenRect The function retrieves the dimensions of the bounding rectangle of the signaturescreen.
Declare	int signGetScreenRect(RECT* lpRect);
Parameters	lpRect [in] Pointer to a RECT structure that receives the screen coordinates.
Return Values	If the function succeeds, the return value is ERR_OK . If the function fails, the return value is ERR_ ERR_NOSUPPORTED .
Remarks	

[15]设置笔触为鼠标控制

User Interface	signMouseControl
Declare	bool signMouseControl(bool bControlled);
Parameters	bControlled =true 时，笔触转为鼠标显示； bControlled =false 时，笔触不为鼠标显示。
Return Values	Returns the current mouse available status.
Remarks	

[16]鼠标扩展屏显示

User Interface	signSetExtendDisplay The function changes the mouse to extend mode.
Declare	void signSetExtendDisplay(bool bExtendDisplay);
Parameters	bExtendDisplay [in] If this parameter is true, the mouse show on the extend screen. If the parameter is false, the mouse show on the primary screen.
Return Values	/
Remarks	

[17]设备旋转角度设置

User Interface	signRotateMode The function changes the running rotation angle of the device for pen.
Declare	int signRotateMode(int mode);
Parameters	mode [in] rotation smode
Return Values	If the function succeeds, the return value is ERR_OK . If the function fails, the return value is ERR_NOSUPPORTED
Remarks	Set the screen rotation angle. The default angle is 0 degrees. [parameter] angle: the values can be specified as 0, 90, 180, 270. Mode=0; //顺时针旋转 0 度 Mode=1; //顺时针旋转 90 度 Mode=2; //顺时针旋转 180 度 Mode=3; //顺时针旋转 270 度

Constant Definition 错误定义

ERR_OK	0	Is ok.
ERR_DEVICE_NOTFOUND	-1	无法找到可用设备
ERR_DEVICE_OPENFAIL	-2	执行失败
ERR_DEVICE_NOTCONNECTED	-3	无连接
ERR_INVALIDPARAM	-101	无效参数
ERR_NOSUPPORTED	-102	模式不支持

Support Device List

Type	Pen	Physics Key	Virtual key	Display	Touch
CS01	yes	no	no	no	no
CS03	yes	no	no	no	no
EX07	yes	yes	no	no	no
EX08	yes	yes	no	no	no
UG05	yes	no	yes	yes	no
TabletA5	yes	no	yes	no	no
ET0A4KW	yes	yes	yes	no	no
101NF	yes	no	no	yes	no
101TF	yes	no	no	yes	yes
UD13	yes	yes	no	yes	no