## SDK - HTHardDll.dll Manual

## **VC++ 6.0 IDE**

#### Remarks:

HTHardDll.dll was compiled under VC++6.0..

WORD: unsigned short

BOOL: bool

ULONG: unsigned long

The following ifdef block is the standard way of creating macros which make exporting from a DLL simpler. All files within this DLL are compiled with the DLL\_API symbol defined on the command line. This symbol should not be defined on any project that uses this DLL. This way any other project whose source files include this file see DLL\_API functions as being imported from a DLL, wheras this DLL sees symbols defined with this macro as being exported.

```
#ifndef DLL_API

#define DLL_API extern "C" __declspec(dllimport)

#endif

Define _stdcall:

#define WIN_API __stdcall
```

## Defines the struct for the application.

```
_HT_RELAY_CONTROL contains the relay control information.
               typedef struct _HT_RELAY_CONTROL
                   BOOL bCHEnable[MAX CH NUM];
                   WORD nCHVoltDIV[MAX_CH_NUM];
                   WORD nCHCoupling[MAX_CH_NUM];
                   BOOL bCHBWLimit[MAX_CH_NUM];
                   WORD nTrigSource;
                   BOOL bTrigFilt;
                   WORD nALT;
               }RELAYCONTROL,*PRELAYCONTROL;
MAX_CH_NUM: Detail in DefMacro.h.
Parameters Remarks:
bCHEnable[MAX_CH_NUM]: Chanel Switch Array(Size to MAX_CH_NUM). Value: 1 ON, 0
                  OFF.
nCHVoltDIV[MAX_CH_NUM]: Chanel Voltage Array(Size to MAX_CH_NUM).
nCHCoupling[MAX_CH_NUM]: Chanel Couple Array(Size to MAX_CH_NUM). Value: 0 DC, 1
                     AC, 2 GND
```

```
bCHBWLimit[MAX_CH_NUM]:Chanel Band Limit Array(Size to MAX_CH_NUM). Value: 1 ON, 0 OFF.

nTrigSource: Trigger Source. 0 CH1, 1 CH2, 2 CH3, 3 CH4,5 EXT,6 EXT/10.

bTrigFilt: High Frequency Rejection. Value: 1 ON, 0 OFF.

nALT: Whether is alternate. Value: 1 is alternate, 0 is non-alternate.

Example:

Declare a variable: RELAYCONTROL myRelayControl;
```

pRelayControl;

## **Functions**

1. DLL\_API WORD WINAPI dsoHTSearchDevice(short\* pDevInfo)

#### **Return Value:**

The number of Having Connected devices..

Declare a pointer: PRELAYCONTROL

#### Parmeter:

pDevInfo

Pointer to devices that have connected to PC.

#### Remarks:

You should call this function to know how many device that have connected to PC. One PC support 32 devices to be connected.

## **Example:**

```
short DevInfo[32];
WORD nConnectedDevNum = 0;
//DevInfo Initial
//...
//Call this function
nConnectedDevNum = dsoHTSearchDevice(DevInfo);
When DevInfo[n] is 0 , there are devices. When DevInfo[n] is -1, there is no device.
```

2. DLL\_API WORD dsoInitHard(WORD DeviceIndex)

#### **Return Value:**

0: Fail. Non 0: Succeed..

## Parmeter:

nDeviceIndex

The device index.

#### Remarks:

You should call this function after connected

**3.** DLL\_API WORD WINAPI dsoHTDeviceConnect(WORD nDeviceIndex)

#### **Return Value:**

```
1 : connect, 0: disconnect.
Parameter:
nDeviceIndex
    The device index.
Remarks:
    Whether the device is connected.
Example:
    If there are two devices On PC, and you check whether to connect to the second device, you
Need to do:
    WORD nDeviceIndex = 1; \frac{1}{0}: the first device
    WORD nRe = 0;
    //Call this function
    nRe = dsoHTDeviceConnect(nDeviceIndex);
    if (nRe = 1)
         ;//the device si connected
    else
         ;//the device is disconnected
4. DLL_API WORD WINAPI dsoGetFPGAVersion (WORD DeviceIndex)
Return Value:
    FPGA Version
Parameter:
DeviceIndex
    Index of the device.
Remarks:
    get FPGA Version
Example:
WORD DeviceIndex = 0;
//...
WORD nFPGVersion = dsoGetFPGAVersion (DeviceIndex)
5. DLL_API WORD WINAPI dsoHTSetCHPos(
                                 WORD nDeviceIndex,
                                 WORD* pLevel,
                                 WORD nVoltDIV,
                                 WORD nPos,
                                 WORD nCH
```

WORD nCHMode

)

#### **Return Value:**

0: Fail. Non 0: Succeed.

```
Parameter:
nDeviceIndex
    Index of the device.
pLevel
    Pointer to calibration level.
nVoltDIV
    Index of channel voltage.
nPos
    The position of chnanel, range :0~255.
nCH
    The targer channel.0 CH1,1 CH2,2 CH3,3 CH4.
nCHMode
    channel working mode(1,2,4)
Remarts:
    Set channel level.
Example:
    WORD nDeviceIndex = 0;
    WORD CHLevel[288]; //the calibration level, See in dsoHTReadCalibrationData.
    WORD nVoltDIV = 6; //voltage 1V/div, index is 6.
    WORD nPos = 128; //Zero level is 128.
    WORD nCH = 0; //CH1.
    WORD nCHMod=4;
    //Call this function.
    if ( 0 = = dsoHTSetCHPos(nDeviceIndex,CHLevel,nVoltDIV,nPos,nCH,nCHMod) )
         ;//Fail
    else
         ://Succeed
6. DLL_API WORD WINAPI dsoHTSetVTriggerLevel(
                             WORD nDeviceIndex,
                              WORD nPos
                             WORD nSensitivity)
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
nPos
    The position of the trigger level.
nSensitivity
    Trigger Sensitivity, if the lines is thick try it bigger
Remarks:
    Set the position of the trigger level.
```

Exmaple:

```
WORD nDeviceIndex = 0;
    WORD nPos = 128:
    //call this function
    if ( 0 = = dsoHTSetVTriggerLevel( nDeviceIndex, nPos, 4) )
             ; //Fail
    else
             ; //Succeed
7. DLL_API WORD WINAPI dsoHTSetHTriggerLength(
                            WORD nDeviceIndex,
                            PCONTROLDATA pControl,
                            WORD nCHMod
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
pControl
    Pointer to Struct PCONTROLDATA, read "HTSoftDll.h" for detail.
nCHMode
    Channel working mode(1,2,4).
Remarks:
    Set trigger length.
8. DLL_API WORD WINAPI dsoHTSetCHAndTrigger(
                                  WORD nDeviceIndex,
                                  RELAYCONTROL RelayControl,
                                  WORD nTimeDIV)
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
RelayControl
    See in the structure HT_RELAY_CONTROL.
nTimeDIV
    The index of time base 0-35.
Remarks:
    Set channel and trigger.
Example:
        WORD nDeviceIndex = 0;
        RELAYCONTROL RelayControl;
        WORD nTimeDIV=12;
        //RelayControl
        //Call this function
```

```
if ( 0 = = dsoHTSetCHAndTrigger(nDeviceIndex,RelayControl,nTimeDIV) )
            ; //Fail
        else
            ; //succeed
  DLL_API WORD WINAPI dsoHTSetSampleRate(
                                  WORD nDeviceIndex,
                                  WORD *pAmpLevel,
                                  WORD nYTFormat,
                                  PRELAYCONTROL pRelayControl,
                                  PCONTROLDATA pControl))
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
pAmpLevel
    Pointer to amplitude calibration.
nYTFormat
    The mode of horizontal format. 0: Normal, 1: Scan, 2:Roll.
pRelayControl
    See in the structure HT_RELAY_CONTROL.
pControl
    Pointer to Struct PCONTROLDATA, read "HTSoftDll.h" for detail.
Remarks:
    Set Sampling Rate.
10. DLL_API WORD dsoHTSetSampleRateVi(WORD nDeviceIndex,
                             WORD *pAmpLevel,
                             WORD* pCHEnable,
                            WORD* pCHVoltDIV,
                            WORD* pCHCoupling,
                            WORD* pCHBWLimit,
                             WORD nTriggerSource,
                             WORD nTriggerFilt,
                            WORD nALT,
                            PCONTROLDATA pControl);
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
pAmpLevel,
    Pointer to amplitude calibration.
pCHVoltDIV
    See in the structure HT_RELAY_CONTROL.nCHVoltDIV.
```

```
pCHEnable
    See in the structure HT_RELAY_CONTROL.bCHEnable.
pCHCoupling
    See in the structure HT_RELAY_CONTROL.nCHCoupling.
pCHBWLimit
    See in the structure HT_RELAY_CONTROL.bCHBWLimit.
nTriggerSource, nTriggerFilt,nALT
pControl
    Pointer to Struct PCONTROLDATA, read "HTSoftDll.h" for detail.
Remarks:
    transform of dsoHTSetSampleRate
11. DLL_API WORD WINAPI dsoHTStartCollectData(WORD nDeviceIndex
                               WORD nStartControl)
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
nDeviceIndex
    The index of the device.
nStartControl
    8bit use index 0-2 3bit
    0:1 AUTO Trigger
    1:1 ROLL Mode
    2:1 stop after this collect
Remarks:
This inform the device start collecting.
Example:
    WORD nDeviceIndex = 0;
    WORD nStartControl=1;
    if (0 = = dsoHTStartCollectData(nDeviceIndex, nStartControl) )
    else
         ; //Succeed
12. DLL_API WORD WINAPI dsoHTGetState(WORD nDeviceIndex)
Return value:
    8bit use index 0-1 2bit
    0:if triggered this bit is 1
    1:if date collection is finished this bit is 1
Parameter:
```

```
nDeviceIndex
    The index of the device.
Remarks:
    Retrieve the collect state of the device.
Example:
        WORD nDeviceIndex = 0;
        while (dsoHTGeState(nDeviceIndex) != 0x02)
             continue;
        //Read data from the device.
13. DLL_API WORD WINAPI dsoHTGetData (
                 WORD nDeviceIndex,
                 WORD* pCH1Data,
                 WORD* pCH2Data,
                 WORD* pCH3Data,
                 WORD* pCH4Data,
                 PCONTROLDATA pControl,
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
nDeviceIndex
    The index of the device.
pCH1Data
    Pointer to CH1 data buffer.
pCH2Data
    Pointer to CH2 data buffer.
pCH3Data
    Pointer to CH3 data buffer.
pCH4Data
    Pointer to CH4 data buffer.
pControl p
    Pointer to Struct PCONTROLDATA, read "HTSoftDll.h" for detail.
Remarks:
    Read the Normal Mode data to PC buffer from the device.
Example:
        WORD nDeviceIndex = 0;
        if (0 = = dsoSDGetData (nDeviceIndex, pCH1Data, pCH2Data, pCH3Data, pCH4Data
                               , pControl))
             ; //Fail
```

else

#### ; //Succeed

## 

PCONTROLDATA pControl);

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### **Parameter:**

nDeviceIndex

The index of the device.

pCH1Data

Pointer to CH1 data buffer.

pCH2Data

Pointer to CH2 data buffer.

pCH3Data

Pointer to CH3 data buffer.

pCH4Data

Pointer to CH4 data buffer.

pControl

Pointer to Struct PCONTROLDATA, read "HTSoftDll.h" for detail.

#### Remarks:

Read the SCAN Mode data to PC buffer from the device.

#### 15. DLL\_API WORD dsoHTGetRollData(WORD nDeviceIndex,

WORD\* pCH1Data,
WORD\* pCH2Data,
WORD\* pCH3Data,
WORD\* pCH4Data,
PCONTROLDATA pControl)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### Parameter:

nDeviceIndex

The index of the device.

pCH1Data

Pointer to CH1 data buffer.

pCH2Data

Pointer to CH2 data buffer.

pCH3Data

Pointer to CH3 data buffer.

```
pCH4Data
    Pointer to CH4 data buffer.
pControl
    Pointer to Struct PCONTROLDATA, read "HTSoftDll.h" for detail.
Remarks:
    Read the ROLL Mode data to PC buffer from the device.
16. DLL_API ULONG WINAPI dsoHTGetHardFC(WORD nDeviceIndex)
Return value:
    nIndata .Retrieve the hardware counter value.
Parameter:
nDeviceIndex
    The index of the device.
Remarks:
    frequency= nIndata*1E9/(8* nTime).
17. DLL_API WORD WINAPI dsoHTSetHardFC (WORD nDeviceIndex,
                                             ULONG nTime
                                            )
Return value:
        0: Fail. Non 0: Succeed.
Parameter:
nDeviceIndex
    The index of the device.
nTime
    set the interval (uint ns) during after which you can call dsoHTGetHardFC.We
recomment 0.1S-1S,
18. DLL_API WORD WINAPI dsoHTWriteCalibrationData (
                                               WORD DeviceIndex,
                                               WORD* pLevel,
                                               WORD nLen
19. DLL_API WORD WINAPI dsoHTReadCalibrationData (WORD nDeviceIndex,
                                                      WORD* pLevel,
                                                      WORD nLen
Return Value:
    0: Fail. Non 0: Succeed.
```

Parameter:

```
pLevel nType
```

Pointer to buffer that save the device calibration data.

nLen

The calibration buffer size.

#### Remarks:

The function must be call when read/write zero calibrate.

## **20.** DLL\_API BOOL WINAPI dsoSetUSBBus (WORD nDeviceIndex)

#### **Return value:**

FALSE: Fail, TRUE: Succeed

#### Parameter:

nDeviceIndex

The index of the device.

#### Remarks:

call this function firstly after connect

## 21. DLL\_API WORD WINAPI dsoHTRDAmpCali(WORD nDeviceIndex,

WORD \* pLevel, WORD nLen)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### **Parameter:**

pLevel:

Pointer to amp calibration level.

nLen

Length of pLevel

## Remarks:

dsoHTRDAmpCali read read amplitude calibrate

## 22. DLL\_API WORD dsoHTSetCHAndTriggerVB(WORD nDeviceIndex,

WORD\* pCHEnable,

WORD\* pCHVoltDIV,

WORD\* pCHCoupling,

WORD\* pCHBWLimit,

WORD nTriggerSource,

WORD nTriggerFilt,

WORD nALT,

WORD nTimeDIV);

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### Parameter:

pCHVoltDIV

See in the structure HT\_RELAY\_CONTROL.nCHVoltDIV.

pCHEnable

See in the structure HT\_RELAY\_CONTROL.bCHEnable.

pCHCoupling

See in the structure HT\_RELAY\_CONTROL.nCHCoupling.

**pCHBWLimit** 

See in the structure HT\_RELAY\_CONTROL.bCHBWLimit.

nTriggerSource,nTriggerFilt,nALT

see struct RELAYCONTROL

The index of time base 0-35.

#### Remarks:

transform of dsoHTSetCHAndTrigger.

23. DLL\_API WORD ddsSetOnOff(WORD DeviceIndex,short nOnOff)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### **Parameter:**

nOnOff

0 for Open and 1 for Close

#### Remarks:

DDS switch

**24.** DLL\_API WORD ddsSetCmd(WORD DeviceIndex, USHORT nSingle)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### **Parameter:**

nSingle

Set it to 1 will get single wave and 0 get continual wave

#### Remarks:

Set output wave form

**25.** DLL\_API WORD ddsEmitSingle(WORD DeviceIndex)

## **Return Value:**

0: Fail. Non 0: Succeed.

#### Remarks:

If you set nSingle to 1 in function ddsSetCmd you should call this function to gennerate wave

26. DLL\_API WORD ddsSetFrequency(WORD DeviceIndex,

double dbFre,

WORD\* pWaveNum,

WORD\* pPeriodNum)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### Parameter:

dbFre

The frequency of wave

pWaveNum

Actually this parameter is a return value when you call ddsDownload pPeriodNum

Actually this parameter is a return value when you call ddsDownload

#### Remarks:

set wave frenquency

27. DLL\_API WORD ddsDownload(WORD DeviceIndex,

WORD iWaveNum,

WORD\* pData)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### Parameter:

iWaveNum

come from function ddsSetFrequency.

pData

Pointer to wave pots array you will send to the Device

#### Remarks:

Send wave data

**28.** DLL\_API WORD dsoInitADCOnce(WORD DeviceIndex)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### Parameter:

#### Remarks:

Call this function after dsoSetUSBBus

**29.** DLL\_API WORD dsoHTADCCHModGain(WORD DeviceIndex, WORD nCHMod)

#### **Return Value:**

0: Fail. Non 0: Succeed.

```
Parameter:
nCHMod
    Channel working mode(1,2,4).
Remarks:
    call this function when channel mode changge
30. DLL_API WORD dsoHTSetAmpCalibrate(WORD nDeviceIndex,
                             WORD nCHSet,
                            WORD nTimeDIV,
                            WORD *pLevel,
                            WORD *nVoltDiv,
                            WORD *pCHPos)
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
nCHSet
    same as PCONTROLDATA->nCHSet.
nTimeDIV
    The index of time base 0-35.
pLevel
    Pointer to amplitude calibration.
nVoltDiv
    See in the structure HT_RELAY_CONTROL.nCHVoltDIV.
pCHPos
    Ponter to 4 lenth array which store all channels vertical position
Remarks:
    Amplitude calibration
31. DLL_API WORD dsoHTSetRamAndTrigerControl(WORD DeviceIndex,
                            WORD nTimeDiv,
                            WORD nCHset,
                            WORD nTrigerSource,
                            WORD nPeak)
Return Value:
    0: Fail. Non 0: Succeed.
Parameter:
nTimeDiv
    The index of time base 0-35.
nCHSet
    same as PCONTROLDATA->nCHSet.nTimeDIV
nTrigerSource
    Trigger Source 0-3
```

```
nPeak
```

Set it to 1 to open peak collection

#### Remarks:

Set Trigger Source

**32.** DLL\_API WORD dsoHTSetTrigerMode(WORD m\_nDeviceIndex,

WORD nTriggerMode,

WORD nTriggerSlop,

WORD nTriggerCouple)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### **Parameter:**

nTriggerMode

Trigger mode .0:Edge 1: Pulse 2: Video

nTriggerSlop

Trigger slope 0 :increasing slope 1:decreasing slope

nTriggerCouple

Triger couple 0: DC 1: AC 2:low-frequency suppression 3:high-frequency suppression 4:Noise Suppression

#### Remarks:

Set trigger mode

**33.** DLL\_API WORD WINAPI dsoHTSetVideoTriger(WORD m\_nDeviceIndex,

**USHORT** nStand,

USHORT nVedioSyncSelect,

USHORT nVideoHsyncNumOption,

USHORT nVideoPositive,

WORD nLevel,

WORD nLogicTriggerSource)

## **Return Value:**

0: Fail. Non 0: Succeed.

## Parameter:

nStand

Analog television system 0:PALSECAM 1:NTSC.

nVedioSyncSelect

The video sync.

Value:

All Lines: 0 Line Num: 1 Odd Field: 2 Even Field: 3

```
All Field:
```

nVideoHsyncNumOption,

The video line number, the min value is 1.

4

nVideoPositive

Video Polarity 0:Positive 1:Negative

nLevel

Trigger level

nLogicTriggerSource

Logical Trigger source

#### Remarks:

Call this function after dsoHTSetTrigerMode when trigger mode is VIDEO

## **34.** DLL\_API WORD WINAPI dsoHTSetPulseTriger(WORD m\_nDeviceIndex,

ULONG nPW,

WORD nPWCondition)

#### **Return Value:**

0: Fail. Non 0: Succeed.

#### **Parameter:**

nPW

The pulse width value. The time range of the pulse width is  $10 \text{ns} \sim 10 \text{s}$ , the pulse width value range is  $2 \sim 20000000000$  ( $10 \text{ns}/5 \sim 10000000000 \text{ns}/5$ )

## nPWCondition

The condition fo the pulse trigger

Value:

Equal 0.

NoEqual 1.

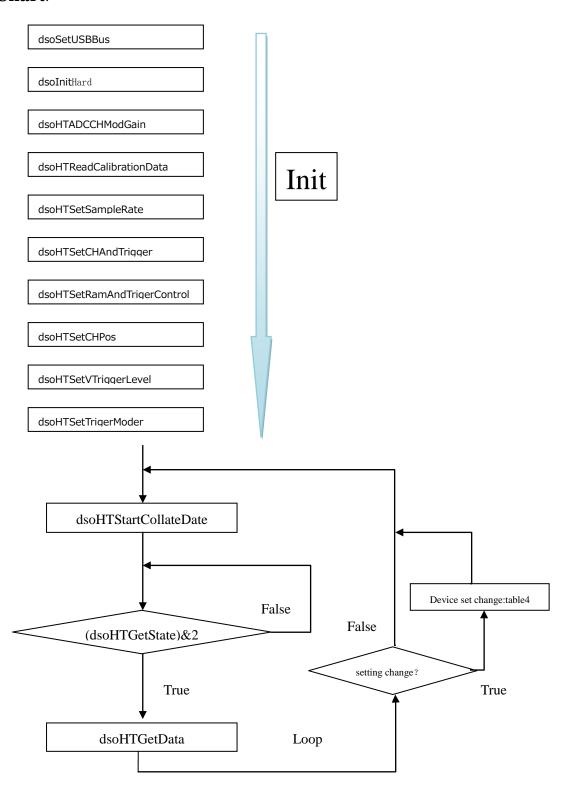
More 2.

Less 3.

## Remarks:

Call this function after dsoHTSetTrigerMode when trigger mode is PULSE

## Flow Chart:



**Table 1: Sampling rate** 

Index	Timebase	Sampling rate (Sa)	Index	Timebase	Sampling rate (Sa)
0	2nS	S:1G D:0.5G Q:250M	19	5mS	50K
1	5nS	S:1G D:0.5G Q:250M	20	10mS	25K
2	10nS	S:1G D:0.5G Q:250M	21	20mS	12. 5K
3	20nS	S:1G D:0.5G Q:250M	22	50mS	5K
4	50nS	S:1G D:0.5G Q:250M	23	100mS	2.5K
5	100nS	S:1G D:0.5G Q:250M	24	200mS	1.25K
6	200nS	S:1G <b>D:0.5G Q:250M</b>	25	500mS	500
7	500nS	S双: 0.5G <b>Q:250M</b>	26	1S	250
8	1uS	250M	27	2S	125
9	2uS	125M	28	5S	50
10	5uS	50M	29	10S	25
11	10uS	25M	30	20S	12. 5
12	20uS	12.5M	31	50S	5
13	50uS	5M	32	100S	2. 5
14	100uS	2.5M	33	200S	1. 25
15	200uS	1.25M	34	500S	0. 5
16	500uS	500K	35	1000S	0. 25
17	1mS	250K			
18	2mS	125K			

## Note:

- 1 Column "Sampling rate" shown in bold need Interpolation
- 2 When the oscilloscope does not require interpolation, sample rate = 250 /timebase; 250 is number of points in a single grid, such as when the timebase is 1uS sampling rate = 250/(1e-6) = 250MSa
- 3 "S" indicates single-channel mode; "D" means dual channel mode; "Q" means four-channel mode. About channel mode shown in Table 2: timebase and channel mode

Table 2: timebase and channel mode

Index	TimeBase	number of channel enabled /		
		channel mode		
0	2nS	1/S; 2/D; 3、4/Q		
•••	•••	1/S; 2/D; 3、4/Q		
6	200nS	1/S; 2/D; 3、4/Q		
7	500nS	1, 2/D; 3, 4/Q		
8	1uS	*/Q		
•••	•••	*/Q		
35	1000S	*/Q		

#### Note:

1 For example when time base is 200nS, Single channel enabled will be the single-channel mode; two for dual channel mode; three and four for four-channel mode

Table 3: Range of each voltage base

Index	voltage base	Range	Index	voltage base	Range
0	2mV	16mV	6	200mV	1.6V
1	5mV	40mV	7	500mV	4V
2	10mV	80mV	8	1V	8V
3	20mV	160mV	9	2V	16V
4	50mV	400mV	10	5V	40V
5	100mV	800mV	11	10V	80V

#### Note:

- 1 "Voltage division" means a large vertical grid voltage corresponding to the value, more precisely, is a waveform data acquisition data 32 corresponding to the difference value
- 2 "Range" is represented by 1: 1 probe corresponding to the range. For example 100mV with a 1: 1 scale probe is 800mV; 1:10 probe range is 8V

# **Table 4: Common oscilloscope settings**

Index	Setting	Functions		
1	V-1+ DIV	dsoHTSetCHAndTrigger		
	Voltage DIV	dsoHTSetAmpCalibrate: call if channel mode has changged		
		dsoHTSetSampleRate		
2	Time DIV	dsoHTSetRamAndTrigerControl		
		SetADCCHModGain: call if channel mode has changged		
		SetAmpCalibrate: call if channel mode has changged		
	Channel	dsoHTSetCHAndTrigger		
3	enable/disable	SetADCCHModGain: call if channel mode has changged		
		SetAmpCalibrate: call if channel mode has changged		
4	Vertical trigger	dsoHTSetVTriggerLevel		
	position			
5	Horizontal trigger	dsoHTSetHTriggerLength		
	position	usom se mi i i gget Leng m		
6	Bandwidth	dsoHTSetCHAndTrigger		
	limitations			
7	input coupling: AC	dsoHTSetCHAndTrigger		
•	/DC	dboilibe tollind   18801		
		dsoHTSetTrigerMode		
8	Trigger Mode	dsoHTSetVideoTriger: call if Trigger Mode is Video		
		dsoHTSetPulseTriger: call if Trigger Mode is Pulse		
9	Trigger source	dsoHTSetRamAndTrigerControl		
10	Trigger slope Rise	dsoHTSetTrigerMode		
	/ Fall			