

Acute Data Generator – VCD File Convert Software development kit (SDK) Programming guide

For Data Generator 3000 and TravelData 3000

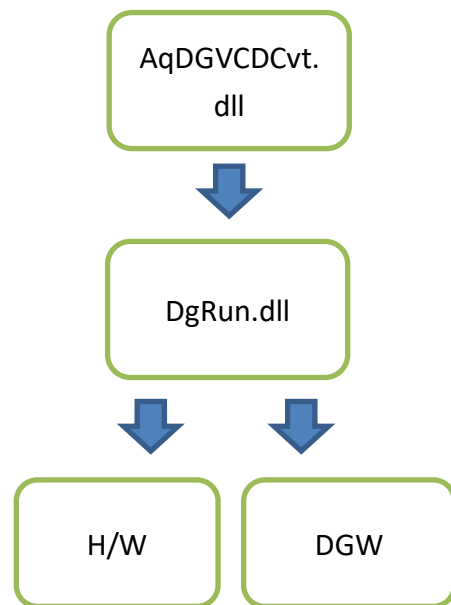
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SDK Control Flow and simple introduction



This SDK provides an open interface for users to convert VCD file to DGW file;

SDK Function Definitions

bool InitDG(**int** iDGModel, **bool** fConnect)

Search and initialize the DG device connected on the computer.

Parameters

iDGModel[in]:

Type: **int**

Select the DG hardware model, enumerating these models as the following

enum DG_HW_MODEL

```
{  
    DG3064B = 0x33064,  
    DG3096B = 0x33096,  
    DG3128B = 0x33128,  
    TD3008E = 0x23008,  
    TD3116B = 0x23116,  
    TD3216B = 0x23216,  
};
```

fConnect[in]:

Type: **bool**

Set the connected mode, false is demo mode.

Return value

Return true if the function succeeded; false if the function failed.

Remarks

InitDG(TD3216B, **false**);

// Select the TD3216B model and demo mode

int CvtVcd2Dgw(char* pFilePath)

Covert VCD file to DGW file.

Parameters

pFilePath[in]:

Type: **char***

The file path of VCD file to convert

Return value

Return file size if the function succeeded; 0 if the function failed.

Remarks

CvtVcd2Dgw ("XXX.VCD");

int GetLastDGError()

Get Last Error.

Return value

Return the error code if the function failed, 0 if the function succeeded.

Error code

#define ERR_MSG_FILE_NOT_FOUND	0x0001
#define ERR_MSG_CANT_FIND_DLL	0x1001
#define ERR_MSG_EMPTY_SLOT	0x1002
#define ERR_MSG_NO_HARDWARE	0x1004
#define ERR_MSG_INVALID_WORK_FREQ	0x1005
#define ERR_MSG_DUPLICATED_CH_NO	0x1006
#define ERR_MSG_CONFLICTED_HIZ_CH_NO	0x1007
#define ERR_MSG_INVALID_STATUS	0x1008
#define ERR_MSG_NOT_UNDER_CAPTURE	0x1009
#define ERR_MSG_NONEXISTENT_HANDLE	0x100A

```
#define ERR_MSG_INVALID_IDLE_TIME          0x100B
#define ERR_MSG_OVER_DATA_BUFF_SIZE       0x100C
```

int GetPodNum()

Get the numbers of pod.

Return value

Return 2 for model TD3216B, 6 for DG3064B.

bool SetOutputVolt(int imV, int iPodIndex)

Set the voltage for each tip.

Parameters

imV[in]:

Type: **int**

The voltage for each pod, unit: mV.

iPodIndex[in]:

Type: **int**

Zero-based index for pod.

Return value

Return true if the function succeeded; false if the function failed.

Remarks

```
SetOutputVolt(2500, 0);
```

```
// Set the Pod 0, 2.5V, Pod 0: CH0 ~ CH7
```

```
SetOutputVolt(2500, 1);
```

```
// Set the Pod 1, 2.5V, Pod 1: CH8 ~ CH15
```

bool DGOutput(char* pFilePath)

Output the waveform.

Parameters

pFilePath[in]:

Type: **char***

The file path of DGW file, the default is NULL.

Return value

Return true if the function succeeded; false if the function failed.

int GetDGStatus()

Get the status of DG hardware.

Return value

Return DG_WAVEFORM_SENDING(0x80000000) status or other value for ready.

bool StopDG()

Stop the DG.

Return value

Return true if the function succeeded; false if the function failed.

bool ShutdownDG()

Shutdown the DG and disconnect DG with the computer.

Return value

Return true if the function succeeded; false if the function failed.