ftrWSQ_GetImageParameters

Please call **ftrWSQ_GetImageParameters** before **ftrWSQ_ToRawImage** for allocate right size of memory for the output raw image.

BOOL ftrWSQ_GetImageParameters(FTR_BYTE *ftrWSQbuf, LPFTRIMGPARMS ftrImPar);

Parameters
>   *ftrWSQbuf
>>   [in] start address of WSQ image.
>   ftrImPar.WSQ_size
>>   [in] size of input WSQ image in bytes.
>   ftrImPar.RAW_size
>>   [out]   - size of output RAW image.

Return Values

If the function succeeds, the return value is **TRUE**.

If the function fails, the return value is **FALSE**. To get extended error information, call **GetLastError**.

ftrWSQ_GetDQTTable

Function **ftrWSQ_GetDQTTable** is used by WSQ compliance testing only and return DQT table for input WSQ image.

BOOL ftrWSQ_GetDQTTable(FTR_BYTE *ftrWSQbuf, LPFTRIMGPARMS ftrImPar, float *DQTTable, FTR_INT16 *o_quant, int *o_size);

Parameters
>   *ftrWSQbuf
>>   [in] start address of WSQ image.
>   ftrImPar.WSQ_size
>>   [in] size of input WSQ image in bytes.
>   ftrImPar.RAW_size
>>   [out]   - size of output RAW image.
>   DQTTable
>>   [out] – output DQT table.
>   o_quant
>>   [out] – output quantilization.
>   o_size
>>   [out]

Return Values

If the function succeeds, the return value is **TRUE**.

If the function fails, the return value is **FALSE**. To get extended error information, call **GetLastError**.

ftrWSQ_ToRawImage

Function **ftrWSQ_ToRawImage** converts WSQ image to RAW image.

BOOL **ftrWSQ_ToRawImage**(FTR_BYTE *ftrWSQbuf, LPFTRIMGPARMS ftrImPar, FTR_BYTE *ftrRAWbuf);
Parameters
 *ftrWSQbuf
  [in] start address of WSQ image.
 ftrImPar.WSQ_size
  [in] size of input WSQ image in bytes.
 ftrImPar.RAW_size
  [out]   - size of output RAW image.
 ftrImPar.Width
  [out]   - Width of output RAW image.
 ftrImPar.Height
  [out]   - Height of output RAW image.
 *ftrRAWbuf
  [out]   - start address of output RAW image.

Return Values

If the function succeeds, the return value is **TRUE**.

If the function fails, the return value is **FALSE**. To get extended error information, call **GetLastError**.

ftrWSQ_FromRawImage

Function **ftrWSQ_FromRawImage** converts RAW image to WSQ image.

BOOL **ftrWSQ_FromRawImage**(FTRHANDLE ftrHandle,FTR_BYTE *ftrRAWbuf, LPFTRIMGPARMS ftrImPar, FTR_BYTE *ftrWSQbuf);
Parameters
 ftrHandle
  [in] - handle from function ftrScanOpenDevice().
 *ftrRAWbuf
  [in] - start address of RAW image.
 ftrImPar.RAW_size
  [in]   - size of input RAW image.
 ftrImPar.Width
  [in]   - Width of input RAW image.
 ftrImPar.Height
  [in]   - Height of input RAW image.
 ftrImPar.Bitrate
  [in]   - Bitrates of output WSQ image.
 ftrImPar.DPI
  [in]   - DPI of input RAW image.
 ftrImPar.WSQ_size
  [out] - size of output WSQ image in bytes.
 *ftrWSQbuf
  [out]   - start address of output WSQ image.

Return Values

If the function succeeds, the return value is **TRUE**.

If the function fails, the return value is **FALSE**. To get extended error information, call **GetLastError**.

FTRIMGPARMS

typedef struct
{
      FTR_DWORD Width;   // image Width
      FTR_DWORD Height;   // image Height
      FTR_DWORD DPI;   // resolution Dots per inch
      FTR_DWORD RAW_size;   // size of RAW image
      FTR_DWORD BMP_size;   // size of BMP image
      FTR_DWORD WSQ_size;   // size of WSQ image
      float   Bitrate;   //bitrates from 0.75 to 2.25(corresponding
    compression ratio around 1:15 to 1:5)
} **FTRIMGPARMS, *LPFTRIMGPARMS**;