

# DocketPORT 487

## Addendum

The DCT Mobile Scanner Development Kit document describes the DCT API in general. This addendum adds information that is specific for the DocketPORT 487 scanner.

### Build

#### ***SI\_OpenInterface***

The following string must be used to open the API in the call to **SI\_OpenInterface**:

"DocketPORT487"	To specify the DocketPORT 487.
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The string is case-sensitive.

### Linking

When linking with the scanner driver, you will need to link with the library named "DPORT487.LIB" for compile-time (implicit) linking. For runtime (explicit) linking, use LoadLibrary() to link to the file "DPORT487.DLL". This file will exist in the end user's "Windows\System32" directory after the driver is installed.

### Property Types

The DocketPORT 487 has the following property types:

Property	Container Type	Item Type
SIP_BITS_PER_CHANNEL	SICON_SINGLE	SI_INT32
SIP_BITS_PER_PIXEL	SICON_SINGLE	SI_INT32
SIP_CHANNEL_ORDER	SICON_LIST	SI_INT32
SIP_CONTRAST	SICON_RANGE	SI_INT32
SIP_DESCREEN_ENABLED	SICON_SINGLE	SI_BOOL
SIP_DUPLEX_ENABLED	SICON_SINGLE	SI_BOOL
SIP_EOP_DETECT_ENABLED	SICON_SINGLE	SI_BOOL
SIP_FEED_DIRECTION	SICON_LIST	SI_INT32
SIP_FEED_RATE	SICON_RANGE	SI_FLOAT32
SIP_GAMMA	SICON_RANGE	SI_FLOAT32

SIP_HIGHLIGHT	SICON_RANGE	SI_INT32
SIP_LUT_BLUE	SICON_ARRAY	SI_UINT32
SIP_LUT_GREEN	SICON_ARRAY	SI_UINT32
SIP_LUT_GRAY	SICON_ARRAY	SI_UINT32
SIP_LUT_RED	SICON_ARRAY	SI_UINT32
SIP_MAX_SCAN_TIME_IN_SEC	SICON_SINGLE	SI_INT32
SIP_OPTICAL_RESOLUTION	SICON_SINGLE	SI_INT32
SIP_OPTICAL_WIDTH_IN_PIXELS	SICON_SINGLE	SI_INT32
SIP_PHOTOMETRIC_INTERPRETATION	SICON_LIST	SI_INT32
SIP_PLANARCHUNKY	SICON_SINGLE	SI_INT32
SIP_PREFEED_ENABLED	SICON_SINGLE	SI_BOOL
SIP_PREFEED_DELAY	SICON_RANGE	SI_INT32
SIP_PREFEED_DISTANCE	SICON_RANGE	SI_INT32
SIP_SCAN_LENGTH_IN_LINES	SICON_RANGE	SI_INT32
SIP_SCAN_MODE	SICON_LIST	SI_INT32
SIP_SCAN_RATE	SICON_RANGE	SI_FLOAT32
SIP_SCAN_WIDTH_IN_PIXELS	SICON_RANGE	SI_INT32
SIP_SHADOW	SICON_RANGE	SI_INT32
SIP_SPOOLER_ENABLED	SICON_SINGLE	SI_BOOL
SIP_THRESHOLD	SICON_RANGE	SI_INT32
SIP_USB_RATE	SICON_LIST	SI_INT32
SIP_LINE_WIDTH_IN_BYTES	SICON_SINGLE	SI_INT32
SIP_XOFFSET	SICON_RANGE	SI_INT32
SIP_XRESOLUTION	SICON_LIST	SI_INT32
SIP_YOFFSET	SICON_RANGE	SI_INT32
SIP_YRESOLUTION	SICON_LIST	SI_INT32

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## Additional Property Info

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### SIP\_LUT\_BLUE

### SIP\_LUT\_GREEN

### SIP\_LUT\_GRAY

### SIP\_LUT\_RED

The DocketPORT 487 supports these four properties. The item type is SI\_UINT16 and container type SICON\_ARRAY.

Each property allows you to specify a lookup table which is an array of 256 values, each value being 16-bits. Each entry represents a threshold pixel level. Thus if a pixel value is equal to or greater than a given threshold stored at table index n, but less than the next higher threshold stored at index n+1, then the output pixel will be the index value n.

Table entries must be continuously increasing or continuously decreasing. In other words, in the case of a continuously increasing table, each table entry must be greater than all entries in lower table indices and less than all entries in higher table indices. In the case of color, all three tables must be the same type, increasing or decreasing, but otherwise the tables can be different.

The length of a table must be 256 entries (thus 512 bytes). The table becomes enabled by downloading a table of this length. To disable a table, specify a length of 0.

It is not necessary to provide a table for every color. For example, you can define a red table but not a blue or green table. In that case, green and blue will be a normal pass-through. If the defined table(s) is an increasing type, the pass-through response of the non-defined table(s) will also be increasing. If the defined table(s) is a decreasing type, the pass-through response of the non-defined table(s) will also be decreasing.

For performance reasons, the entire table is not checked to confirm that it is continuously increasing or decreasing. Only entries 0 and 255 are checked. A table that is not continuously increasing or decreasing will cause undesirable image data, but otherwise no adverse effects.

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## Calibration Data

Calibration data for the DocketPORT 487 is stored in the following location:

C:\Documents and Settings\All Users\Application Data\Docucap\DocketPORT487

The portion of the path preceding the “Docucap” directory is obtained from the Windows API function **SHGetFolderPath()** using the folder ID `CSIDL_COMMON_APPDATA`.

The calibration file will take on the same security permissions as those of the directory.

Security Note: The directories listed above are created by the **SI\_OpenInterface()** function if they do not already exist. Therefore, the account must have permission to create these directories in the file system. The STI driver will call **SI\_OpenInterface()** when it is initialized and this will normally occur immediately after installation. The STI driver runs in the LocalService account which typically is able to create the directory.