



Delta3D Version 2.4.0

dtInputSense::

Reference Manual

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Main Page

Delta3D is an Open Source engine which can be used for games, simulations, or other graphical applications.

The **Delta3D** framework exists as a number of modules, each sitting in its own library, enclosed within its own namespace. At the very core lies the dtCore library. This contains basic, low-level functionality which is mostly required for all 3D applications written in C++.

Around and alongside this sit other supporting libraries, such as dtUtil (containing reusable features which are useful for most applications), dtTerrain (for rendering terrain databases), dtGame, dtNet, etc.

Extensive online documentation is available from the Delta3D **Docs** section to help in using Delta3D.

The project's original reference guides generated by Doxygen from the source code may be viewed at the Delta3D **API Documentation** section.

To download source code, binaries, dependencies and sample datasets visit the Delta3D **Downloads** page.

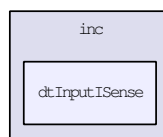
For more about dependencies see the Delta3D **Dependencies** page.

The documentation you are looking at can be downloaded from www.3draum.ch.

Enjoy!

Directory Documentation

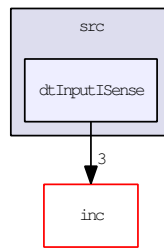
2.1 inc/dtInputISense/ Directory Reference



Files

- file [dlcompat.h](#)
- file [export.h](#)
- file [isense.h](#)
- file [mainpage.h](#)
- file [tracker.h](#)
- file [types.h](#)

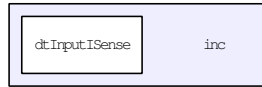
2.2 src/dtInputSense/ Directory Reference



Files

- file [dlcompat.c](#)
- file [isense.c](#)
- file [tracker.cpp](#)

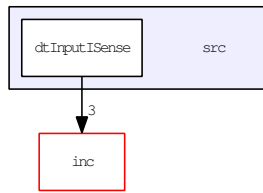
2.3 inc/ Directory Reference



Directories

- directory [dtInputSense](#)

2.4 src/ Directory Reference



Directories

- directory [dtInputSense](#)

Namespace Documentation

3.1 dtInputSense Namespace Reference

The dtInputSense namespace contains classes that allow for reading of Intersense (<http://www.isense.com/>) tracker devices.

Classes

- class [Tracker](#)
A tracker device.

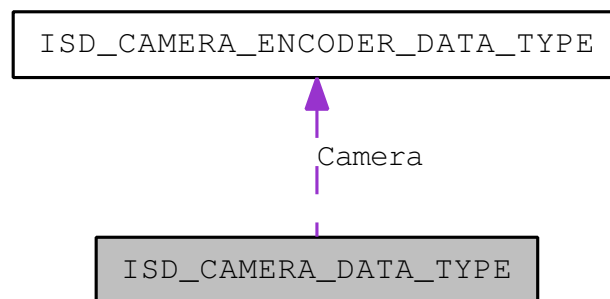
3.1.1 Detailed Description

The dtInputSense namespace contains classes that allow for reading of Intersense (<http://www.isense.com/>) tracker devices.

Class Documentation

4.1 ISD_CAMERA_DATA_TYPE Struct Reference

`#include <inc/dtInputISense/isense.h>` Collaboration diagram for ISD_CAMERA_DATA_TYPE:



Public Attributes

- [ISD_CAMERA_ENCODER_DATA_TYPE Camera](#) [ISD_MAX_STATIONS]

4.1.1 Member Data Documentation

4.1.1.1 ISD_CAMERA_ENCODER_DATA_TYPE Camera[ISD_MAX_STATIONS]

The documentation for this struct was generated from the following file:

- [isense.h](#)

4.2 ISD_CAMERA_ENCODER_DATA_TYPE Struct Reference

```
#include <inc/dtInputISense/isense.h>
```

Public Attributes

- float [Aperture](#)
- LONG [ApertureEncoder](#)
- BYTE [bReserved1](#)
- BYTE [bReserved2](#)
- BYTE [bReserved3](#)
- float [CovarianceOrientation](#) [3]
- float [CovariancePosition](#) [3]
- DWORD [dwReserved1](#)
- DWORD [dwReserved2](#)
- float [Focus](#)
- LONG [FocusEncoder](#)
- float [FOV](#)
- float [fReserved1](#)
- float [fReserved2](#)
- float [fReserved3](#)
- float [fReserved4](#)
- float [NodalPoint](#)
- DWORD [Timecode](#)
- DWORD [TimecodeUserBits](#)
- BYTE [TrackingStatus](#)
- LONG [ZoomEncoder](#)

4.2.1 Member Data Documentation

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- 4.2.1.2 LONG ApertureEncoder
- 4.2.1.3 BYTE bReserved1
- 4.2.1.4 BYTE bReserved2
- 4.2.1.5 BYTE bReserved3
- 4.2.1.6 float CovarianceOrientation[3]
- 4.2.1.7 float CovariancePosition[3]
- 4.2.1.8 DWORD dwReserved1
- 4.2.1.9 DWORD dwReserved2
- 4.2.1.10 float Focus
- 4.2.1.11 LONG FocusEncoder
- 4.2.1.12 float FOV
- 4.2.1.13 float fReserved1
- 4.2.1.14 float fReserved2
- 4.2.1.15 float fReserved3
- 4.2.1.16 float fReserved4
- 4.2.1.17 float NodalPoint
- 4.2.1.18 DWORD Timecode
- 4.2.1.19 DWORD TimecodeUserBits
- 4.2.1.20 BYTE TrackingStatus
- 4.2.1.21 LONG ZoomEncoder

The documentation for this struct was generated from the following file:

- [isense.h](#)

4.3 ISD_HARDWARE_INFO_TYPE Struct Reference

```
#include <inc/dtInputISense/isense.h>
```

Public Attributes

- [DWORD AuxSystem](#)
- [DWORD BaudRate](#)
- [Bool bReserved1](#)
- [struct {](#)
 - [Bool bReserved2](#)
 - [Bool bReserved3](#)
 - [Bool bReserved4](#)
 - [Bool Compass](#)
 - [Bool CompassCal](#)
 - [Bool ConfigLock](#)
 - [Bool DiagData](#)
 - [DWORD dwReserved1](#)
 - [DWORD dwReserved2](#)
 - [DWORD dwReserved3](#)
 - [DWORD dwReserved4](#)
 - [Bool Encoders](#)
 - [Bool Enhancement](#)
 - [Bool ErrorLog](#)
 - [float fReserved2](#)
 - [float fReserved3](#)
 - [float fReserved4](#)
 - [DWORD MaxButtons](#)
 - [DWORD MaxChannels](#)
 - [DWORD MaxFPses](#)
 - [DWORD MaxImus](#)
 - [DWORD MaxStations](#)
 - [Bool MeasData](#)
 - [Bool Orientation](#)
 - [Bool PhotoDiode](#)
 - [Bool Position](#)
 - [Bool Prediction](#)
 - [Bool PseConfig](#)
 - [Bool SelfTest](#)
 - [Bool UltGain](#)
 - [float UltMaxRange](#)
 - [Bool UltTimeout](#)
 - [Bool UltVolume](#)[} Capability](#)
- [char cReserved1 \[128\]](#)
- [char cReserved2 \[128\]](#)
- [char cReserved3 \[128\]](#)
- [char cReserved4 \[128\]](#)
- [float FirmwareRev](#)
- [float fReserved1](#)
- [DWORD Interface](#)
- [char ModelName \[128\]](#)
- [DWORD NumTestLevels](#)
- [Bool OnHost](#)
- [DWORD Port](#)
- [DWORD TrackerModel](#)
- [DWORD TrackerType](#)
- [Bool Valid](#)

4.3.1 Member Data Documentation

4.3.1.1 **DWORD AuxSystem**

4.3.1.2 **DWORD BaudRate**

4.3.1.3 **Bool bReserved1**

4.3.1.4 **Bool bReserved2**

4.3.1.5 **Bool bReserved3**

4.3.1.6 **Bool bReserved4**

4.3.1.7 **struct { ... } Capability**

4.3.1.8 **Bool Compass**

4.3.1.9 **Bool CompassCal**

4.3.1.10 **Bool ConfigLock**

4.3.1.11 **char cReserved1[128]**

4.3.1.12 **char cReserved2[128]**

4.3.1.13 **char cReserved3[128]**

4.3.1.14 **char cReserved4[128]**

4.3.1.15 **Bool DiagData**

4.3.1.16 **DWORD dwReserved1**

4.3.1.17 **DWORD dwReserved2**

4.3.1.18 **DWORD dwReserved3**

4.3.1.19 **DWORD dwReserved4**

4.3.1.20 **Bool Encoders**

4.3.1.21 **Bool Enhancement**

4.3.1.22 **Bool ErrorLog**

4.3.1.23 **float FirmwareRev**

4.3.1.24 **float fReserved1**

4.3.1.25 **float fReserved2**

4.3.1.26 **float fReserved3**

4.3.1.27 **float fReserved4**

4.3.1.28 **DWORD Interface**

4.3.1.29 **DWORD MaxButtons**

4.3.1.30 **DWORD MaxChannels**

4.3.1.31 **DWORD MaxFPses**

4.3.1.32 **DWORD MaxImus**

4.3.1.33 **DWORD MaxStations**

4.3.1.34 **Bool MeasData**

4.3.1.35 **char ModelName[128]**

4.3.1.36 **DWORD NumTestLevels**

4.3.1.37 **Bool OnHost**

4.3.1.38 **Bool Orientation**

4.3.1.39 **Bool PhotoDiode**

4.3.1.40 **DWORD Port**

4.3.1.41 **Bool Position**

4.3.1.42 **Bool Prediction**

- [isense.h](#)

4.4 ISD_STATION_DATA_TYPE Struct Reference

```
#include <inc/dtInputISense/isense.h>
```

Public Attributes

- float [AccelBodyFrame](#) [3]
- float [AccelNavFrame](#) [3]
- short [AnalogData](#) [ISD_MAX_CHANNELS]
- float [AngularVelBodyFrame](#) [3]
- float [AngularVelNavFrame](#) [3]
- float [AngularVelRaw](#) [3]
- [BYTE AuxInputs](#) [ISD_MAX_AUX_INPUTS]
- float [BatteryLevel](#)
- [BYTE BatteryState](#)
- [Bool ButtonState](#) [ISD_MAX_BUTTONS]
- [BYTE CommIntegrity](#)
- float [CompassYaw](#)
- float [Euler](#) [3]
- [BYTE NewData](#)
- float [Position](#) [3]
- float [Quaternion](#) [4]
- [DWORD Reserved](#) [64]
- float [StillTime](#)
- float [TimeStamp](#)
- [BYTE TrackingStatus](#)
- float [VelocityNavFrame](#) [3]

4.4.1 Member Data Documentation

- 4.4.1.1 float AccelBodyFrame[3]
- 4.4.1.2 float AccelNavFrame[3]
- 4.4.1.3 short AnalogData[ISD_MAX_CHANNELS]
- 4.4.1.4 float AngularVelBodyFrame[3]
- 4.4.1.5 float AngularVelNavFrame[3]
- 4.4.1.6 float AngularVelRaw[3]
- 4.4.1.7 BYTE AuxInputs[ISD_MAX_AUX_INPUTS]
- 4.4.1.8 float BatteryLevel
- 4.4.1.9 BYTE BatteryState
- 4.4.1.10 Bool ButtonState[ISD_MAX_BUTTONS]
- 4.4.1.11 BYTE CommIntegrity
- 4.4.1.12 float CompassYaw
- 4.4.1.13 float Euler[3]
- 4.4.1.14 BYTE NewData
- 4.4.1.15 float Position[3]
- 4.4.1.16 float Quaternion[4]
- 4.4.1.17 DWORD Reserved[64]
- 4.4.1.18 float StillTime
- 4.4.1.19 float TimeStamp
- 4.4.1.20 BYTE TrackingStatus
- 4.4.1.21 float VelocityNavFrame[3]

The documentation for this struct was generated from the following file:

- [isense.h](#)

4.5 ISD_STATION_HARDWARE_INFO_TYPE Struct Reference

```
#include <inc/dtInputISense/isense.h>
```

Public Attributes

- char [CalDate](#) [20]
- struct {
 - [DWORD AuxInputs](#)
 - [DWORD AuxOutputs](#)
 - [Bool bReserved1](#)
 - [Bool bReserved2](#)
 - [Bool bReserved3](#)
 - [Bool bReserved4](#)
 - [Bool Compass](#)
 - [DWORD dwReserved1](#)
 - [DWORD dwReserved2](#)
 - [DWORD dwReserved3](#)
 - [DWORD dwReserved4](#)
 - [DWORD Encoders](#)
 - [DWORD NumButtons](#)
 - [DWORD NumChannels](#)
 - [Bool Orientation](#)
 - [Bool Position](#)
- [} Capability](#)
- char [cReserved1](#) [128]
- char [cReserved2](#) [128]
- char [cReserved3](#) [128]
- char [cReserved4](#) [128]
- char [DescVersion](#) [20]
- [DWORD DeviceID](#)
- float [FirmwareRev](#)
- float [fReserved1](#)
- float [fReserved2](#)
- float [fReserved3](#)
- float [fReserved4](#)
- [DWORD ID](#)
- [DWORD Port](#)
- [DWORD SerialNum](#)
- [DWORD Type](#)
- [Bool Valid](#)

4.5.1 Member Data Documentation

- 4.5.1.1 **DWORD** AuxInputs
- 4.5.1.2 **DWORD** AuxOutputs
- 4.5.1.3 **Bool** bReserved1
- 4.5.1.4 **Bool** bReserved2
- 4.5.1.5 **Bool** bReserved3
- 4.5.1.6 **Bool** bReserved4
- 4.5.1.7 **char** CalDate[20]
- 4.5.1.8 **struct { ... }** Capability
- 4.5.1.9 **Bool** Compass
- 4.5.1.10 **char** cReserved1[128]
- 4.5.1.11 **char** cReserved2[128]
- 4.5.1.12 **char** cReserved3[128]
- 4.5.1.13 **char** cReserved4[128]
- 4.5.1.14 **char** DescVersion[20]
- 4.5.1.15 **DWORD** DeviceID
- 4.5.1.16 **DWORD** dwReserved1
- 4.5.1.17 **DWORD** dwReserved2
- 4.5.1.18 **DWORD** dwReserved3
- 4.5.1.19 **DWORD** dwReserved4
- 4.5.1.20 **DWORD** Encoders
- 4.5.1.21 **float** FirmwareRev
- 4.5.1.22 **float** fReserved1
- 4.5.1.23 **float** fReserved2
- 4.5.1.24 **float** fReserved3
- 4.5.1.25 **float** fReserved4
- 4.5.1.26 **DWORD** ID
- 4.5.1.27 **DWORD** NumButtons
- 4.5.1.28 **DWORD** NumChannels
- 4.5.1.29 **Bool** Orientation
- 4.5.1.30 **DWORD** Port
- 4.5.1.31 **Bool** Position
- 4.5.1.32 **DWORD** SerialNum
- 4.5.1.33 **DWORD** Type
- 4.5.1.34 **Bool** Valid

The documentation for this struct was generated from the following file:

- [isense.h](#)

4.6 ISD_STATION_INFO_TYPE Struct Reference

```
#include <inc/dtInputISense/isense.h>
```

Public Attributes

- [DWORD AccelSensitivity](#)
- [DWORD AngleFormat](#)
- [BYTE bReserved2](#)
- [Bool bReserved4](#)
- [Bool Compass](#)
- [BYTE CompassCompensation](#)
- [DWORD CoordFrame](#)
- [DWORD dwReserved3](#)
- [DWORD dwReserved4](#)
- [DWORD Enhancement](#)
- [float fReserved4](#)
- [Bool GetAuxInputs](#)
- [Bool GetCameraData](#)
- [Bool GetCovarianceData](#)
- [Bool GetEncoderData](#)
- [Bool GetInputs](#)
- [DWORD ID](#)
- [BYTE ImuShockSuppression](#)
- [LONG InertiaCube](#)
- [DWORD Prediction](#)
- [DWORD Sensitivity](#)
- [Bool State](#)
- [Bool TimeStamped](#)
- [float TipOffset \[3\]](#)
- [BYTE UrmRejectionFactor](#)

4.6.1 Member Data Documentation

- 4.6.1.1 **DWORD** AccelSensitivity
- 4.6.1.2 **DWORD** AngleFormat
- 4.6.1.3 **BYTE** bReserved2
- 4.6.1.4 **Bool** bReserved4
- 4.6.1.5 **Bool** Compass
- 4.6.1.6 **BYTE** CompassCompensation
- 4.6.1.7 **DWORD** CoordFrame
- 4.6.1.8 **DWORD** dwReserved3
- 4.6.1.9 **DWORD** dwReserved4
- 4.6.1.10 **DWORD** Enhancement
- 4.6.1.11 **float** fReserved4
- 4.6.1.12 **Bool** GetAuxInputs
- 4.6.1.13 **Bool** GetCameraData
- 4.6.1.14 **Bool** GetCovarianceData
- 4.6.1.15 **Bool** GetEncoderData
- 4.6.1.16 **Bool** GetInputs
- 4.6.1.17 **DWORD** ID
- 4.6.1.18 **BYTE** ImuShockSuppression
- 4.6.1.19 **LONG** InertiaCube
- 4.6.1.20 **DWORD** Prediction
- 4.6.1.21 **DWORD** Sensitivity
- 4.6.1.22 **Bool** State
- 4.6.1.23 **Bool** TimeStamped
- 4.6.1.24 **float** TipOffset[3]
- 4.6.1.25 **BYTE** UrmRejectionFactor

The documentation for this struct was generated from the following file:

- [isense.h](#)

4.7 ISD_TRACKER_INFO_TYPE Struct Reference

```
#include <inc/dtInputISense/isense.h>
```

Public Attributes

- Bool bReserved2
- Bool bReserved3
- Bool bReserved4
- DWORD dwReserved4
- float FirmwareRev
- float fReserved2
- float fReserved3
- float fReserved4
- DWORD Interface
- float KBitsPerSec
- Bool LedEnable
- float LibVersion
- DWORD Port
- DWORD RecordsPerSec
- DWORD SyncPhase
- float SyncRate
- DWORD SyncState
- DWORD TrackerModel
- DWORD TrackerType
- DWORD UltTimeout
- DWORD UltVolume

4.7.1 Member Data Documentation

4.7.1.1 Bool bReserved2

4.7.1.2 Bool bReserved3

4.7.1.3 Bool bReserved4

4.7.1.4 DWORD dwReserved4

4.7.1.5 float FirmwareRev

4.7.1.6 float fReserved2

4.7.1.7 float fReserved3

4.7.1.8 float fReserved4

4.7.1.9 DWORD Interface

4.7.1.10 float KBitsPerSec

4.7.1.11 Bool LedEnable

4.7.1.12 float LibVersion

4.7.1.13 DWORD Port

4.7.1.14 DWORD RecordsPerSec

4.7.1.15 DWORD SyncPhase

4.7.1.16 float SyncRate

4.7.1.17 DWORD SyncState

4.7.1.18 DWORD TrackerModel

4.7.1.19 DWORD TrackerType

4.7.1.20 DWORD UltTimeout

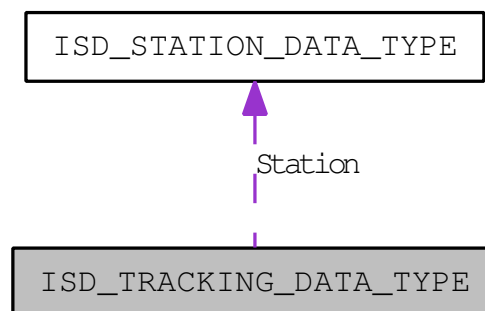
4.7.1.21 DWORD UltVolume

The documentation for this struct was generated from the following file:

- [isense.h](#)

4.8 ISD_TRACKING_DATA_TYPE Struct Reference

#include <inc/dtInputISense/isense.h> Collaboration diagram for ISD_TRACKING_DATA_TYPE:



Public Attributes

- [ISD_STATION_DATA_TYPE Station](#) [ISD_MAX_STATIONS]

4.8.1 Member Data Documentation

4.8.1.1 ISD_STATION_DATA_TYPE Station[ISD_MAX_STATIONS]

The documentation for this struct was generated from the following file:

- [isense.h](#)

4.9 Tracker Class Reference

A tracker device.

```
#include <inc/dtInputISense/tracker.h>
```

Public Member Functions

- void [Poll](#) ()
Manually polls the state of this tracker, updating all of its features.

Static Public Member Functions

- static void [CreateInstances](#) ()
Creates instances of [Tracker](#) corresponding to each connected tracker device.
- static void [DestroyInstances](#) ()
Destroys all [Tracker](#) instances.
- static void [PollInstances](#) ()
Polls all [Tracker](#) instances.

4.9.1 Detailed Description

A tracker device.

4.9.2 Member Function Documentation

4.9.2.1 void [CreateInstances](#) () [static]

Creates instances of [Tracker](#) corresponding to each connected tracker device.

4.9.2.2 void [DestroyInstances](#) () [static]

Destroys all [Tracker](#) instances.

4.9.2.3 void [Poll](#) ()

Manually polls the state of this tracker, updating all of its features.

4.9.2.4 void [PollInstances](#) () [static]

Polls all [Tracker](#) instances.

The documentation for this class was generated from the following files:

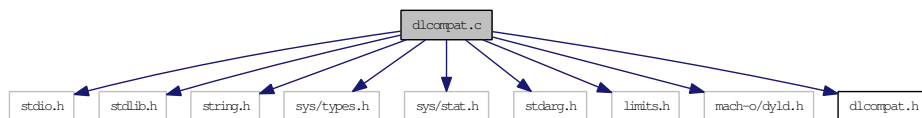
- [tracker.h](#)
- [tracker.cpp](#)

File Documentation

5.1 dlcompat.c File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <stdarg.h>
#include <limits.h>
#include <mach-o/dyld.h>
#include "dlcompat.h"
```

Include dependency graph for dlcompat.c:



Defines

- #define `ERR_STR_LEN` 256

Functions

- int `dlclose` (void *handle)
- const char * `dlerror` (void)
- void * `dlopen` (const char *path, int mode)
- void * `dlsym` (void *handle, const char *symbol)
- static void * `dlsymIntern` (void *handle, const char *symbol)
- static const char * `error` (int setget, const char *str,...)

5.1.1 Define Documentation

5.1.1.1 `#define ERR_STR_LEN 256`

5.1.2 Function Documentation

5.1.2.1 `int dlclose (void * handle)`

5.1.2.2 `const char* dlerror (void)`

5.1.2.3 `void* dlopen (const char * path, int mode)`

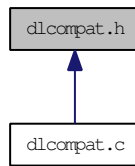
5.1.2.4 `void* dlsym (void * handle, const char * symbol)`

5.1.2.5 `void * dlsymIntern (void * handle, const char * symbol)` [static]

5.1.2.6 `static const char * error (int setget, const char * str, ...)` [static]

5.2 dlcompat.h File Reference

This graph shows which files directly or indirectly include this file:



Defines

- #define [RTLD_GLOBAL](#) 0x8
- #define [RTLD_LAZY](#) 0x1
- #define [RTLD_LAZY_UNDEF](#) 0x100
- #define [RTLD_LOCAL](#) 0x4
- #define [RTLD_NODELETE](#) 0x80
- #define [RTLD_NOLOAD](#) 0x10
- #define [RTLD_NOW](#) 0x2
- #define [RTLD_SHARED](#) 0x20
- #define [RTLD_UNSHARED](#) 0x40

Functions

- int [dlclose](#) (void *handle)
- const char * [dlerror](#) (void)
- void * [dlopen](#) (const char *path, int mode)
- void * [dlsym](#) (void *handle, const char *symbol)

5.2.1 Define Documentation

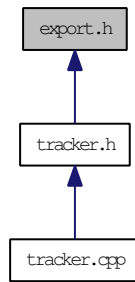
- 5.2.1.1 [#define RTLD_GLOBAL 0x8](#)
- 5.2.1.2 [#define RTLD_LAZY 0x1](#)
- 5.2.1.3 [#define RTLD_LAZY_UNDEF 0x100](#)
- 5.2.1.4 [#define RTLD_LOCAL 0x4](#)
- 5.2.1.5 [#define RTLD_NODELETE 0x80](#)
- 5.2.1.6 [#define RTLD_NOLOAD 0x10](#)
- 5.2.1.7 [#define RTLD_NOW 0x2](#)
- 5.2.1.8 [#define RTLD_SHARED 0x20](#)
- 5.2.1.9 [#define RTLD_UNSHARED 0x40](#)

5.2.2 Function Documentation

- 5.2.2.1 [int dlclose \(void * *handle*\)](#)
- 5.2.2.2 [const char* dlerror \(void\)](#)
- 5.2.2.3 [void* dlopen \(const char * *path*, int *mode*\)](#)
- 5.2.2.4 [void* dlsym \(void * *handle*, const char * *symbol*\)](#)

5.3 export.h File Reference

This graph shows which files directly or indirectly include this file:



Defines

- #define [DT_INPUT_ISENSE_EXPORT](#)

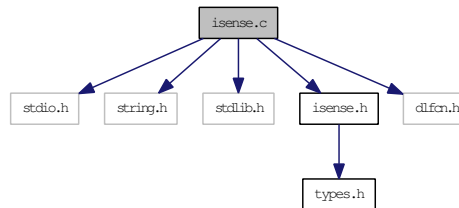
5.3.1 Define Documentation

5.3.1.1 #define DT_INPUT_ISENSE_EXPORT

5.4 isense.c File Reference

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include "isense.h"
#include <dlfcn.h>
```

Include dependency graph for isense.c:



Defines

- #define `ISD_LIB_NAME` "libisense"

Typedefs

- typedef void `DLL`
- typedef `Bool`(* `ISD_AUX_OUTPUT_FN`)(`ISD_TRACKER_HANDLE`, `WORD`, `BYTE` *, `WORD`)
- typedef `Bool`(* `ISD_BORESIGHT_FN`)(`ISD_TRACKER_HANDLE`, `WORD`, `Bool`)
- typedef `Bool`(* `ISD_BORESIGHT_REF_FN`)(`ISD_TRACKER_HANDLE`, `WORD`, `float`, `float`, `float`)
- typedef `Bool`(* `ISD_CAMERA_DATA_FN`)(`ISD_TRACKER_HANDLE`, `ISD_CAMERA_DATA_TYPE` *)
- typedef `Bool`(* `ISD_COMM_INFO_FN`)(`ISD_TRACKER_HANDLE`, `ISD_TRACKER_INFO_TYPE` *)
- typedef `Bool`(* `ISD_COMMAND_FN`)(`ISD_TRACKER_HANDLE`)
- typedef `Bool`(* `ISD_CONFIG_FILE_FN`)(`ISD_TRACKER_HANDLE`, `char` *, `Bool`)
- typedef `Bool`(* `ISD_COUNT_FN`)(`WORD` *)
- typedef `Bool`(* `ISD_DATA_FN`)(`ISD_TRACKER_HANDLE`, `ISD_TRACKING_DATA_TYPE` *)
- typedef `Bool`(* `ISD_GET_HARDW_INFO_FN`)(`ISD_TRACKER_HANDLE`, `ISD_STATION_HARDWARE_INFO_TYPE` *, `WORD`)
- typedef `float`(* `ISD_GET_TIME`)(`void`)
- typedef `DWORD`(* `ISD_OPEN_ALL_FN`)(`Hwnd`, `ISD_TRACKER_HANDLE` *, `Bool`, `Bool`)
- typedef `ISD_TRACKER_HANDLE`(* `ISD_OPEN_FN`)(`Hwnd`, `DWORD`, `Bool`, `Bool`)
- typedef `Bool`(* `ISD_QRY_RBUFFER_FN`)(`ISD_TRACKER_HANDLE`, `WORD`, `ISD_STATION_DATA_TYPE` *, `DWORD` *, `DWORD` *)
- typedef `Bool`(* `ISD_RBUFFER_FN`)(`ISD_TRACKER_HANDLE`, `WORD`)
- typedef `Bool`(* `ISD_RESET_HEADING_FN`)(`ISD_TRACKER_HANDLE`, `WORD`)
- typedef `Bool`(* `ISD_SCRIPT_FN`)(`ISD_TRACKER_HANDLE`, `char` *)
- typedef `Bool`(* `ISD_SET_RBUFFER_FN`)(`ISD_TRACKER_HANDLE`, `WORD`, `ISD_STATION_DATA_TYPE` *, `DWORD`)
- typedef `Bool`(* `ISD_STATION_CONFIG_FN`)(`ISD_TRACKER_HANDLE`, `ISD_STATION_INFO_TYPE` *, `WORD`, `Bool`)
- typedef `Bool`(* `ISD_SYS_INFO_FN`)(`ISD_TRACKER_HANDLE`, `ISD_HARDWARE_INFO_TYPE` *)
- typedef `Bool`(* `ISD_SYSTEM_CONFIG_FN`)(`ISD_TRACKER_HANDLE`, `ISD_TRACKER_INFO_TYPE` *, `Bool`)
- typedef `Bool`(* `ISD_UDP_BROADCAST_FN`)(`ISD_TRACKER_HANDLE`, `DWORD`, `ISD_TRACKING_DATA_TYPE` *, `ISD_CAMERA_DATA_TYPE` *)

Functions

- static `DLL_EP dll_entrpoint` (`DLL *dll`, `const char *name`)
- static `DLL * dll_load` (`const char *name`)
- static void `dll_unload` (`DLL *dll`)
- DLLEXPORT `Bool` DLENTY `ISD_AuxOutput` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID, `BYTE *AuxOutput`, `WORD` length)
- DLLEXPORT `Bool` DLENTY `ISD_Boresight` (`ISD_TRACKER_HANDLE` handle, `WORD` stationNum, `Bool` set)
- DLLEXPORT `Bool` DLENTY `ISD_BoresightReferenced` (`ISD_TRACKER_HANDLE` handle, `WORD` stationNum, `float` yaw, `float` pitch, `float` roll)
- DLLEXPORT `Bool` DLENTY `ISD_CloseTracker` (`ISD_TRACKER_HANDLE` handle)
- DLLEXPORT `Bool` DLENTY `ISD_ConfigSave` (`ISD_TRACKER_HANDLE` handle)
- DLLEXPORT `Bool` DLENTY `ISD_ConfigureFromFile` (`ISD_TRACKER_HANDLE` handle, `char *path`, `Bool` verbose)
- static void `ISD_FreeLib` (`void`)
- DLLEXPORT `Bool` DLENTY `ISD_GetCameraData` (`ISD_TRACKER_HANDLE` handle, `ISD_CAMERA_DATA_TYPE *Data`)
- DLLEXPORT `Bool` DLENTY `ISD_GetCommInfo` (`ISD_TRACKER_HANDLE` handle, `ISD_TRACKER_INFO_TYPE *Tracker`)
- DLLEXPORT `Bool` DLENTY `ISD_GetStationConfig` (`ISD_TRACKER_HANDLE` handle, `ISD_STATION_INFO_TYPE *Station`, `WORD` stationNum, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_GetStationHardwareInfo` (`ISD_TRACKER_HANDLE` handle, `ISD_STATION_HARDWARE_INFO_TYPE *info`, `WORD` stationNum)
- DLLEXPORT `Bool` DLENTY `ISD_GetSystemHardwareInfo` (`ISD_TRACKER_HANDLE` handle, `ISD_HARDWARE_INFO_TYPE *hwInfo`)
- DLLEXPORT `float` DLENTY `ISD_GetTime` (`void`)
- DLLEXPORT `Bool` DLENTY `ISD_GetTrackerConfig` (`ISD_TRACKER_HANDLE` handle, `ISD_TRACKER_INFO_TYPE *Tracker`, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_GetTrackingData` (`ISD_TRACKER_HANDLE` handle, `ISD_TRACKING_DATA_TYPE *Data`)
- static `DLL * ISD_LoadLib` (`void`)
- DLLEXPORT `Bool` DLENTY `ISD_NumOpenTrackers` (`WORD *num`)
- DLLEXPORT `DWORD` DLENTY `ISD_OpenAllTrackers` (`Hwnd` hParent, `ISD_TRACKER_HANDLE *handle`, `Bool` infoScreen, `Bool` verbose)
- DLLEXPORT `ISD_TRACKER_HANDLE` DLENTY `ISD_OpenTracker` (`Hwnd` hParent, `DWORD` commPort, `Bool` infoScreen, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_ResetHeading` (`ISD_TRACKER_HANDLE` handle, `WORD` stationNum)
- DLLEXPORT `Bool` `ISD_RingBufferQuery` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID, `ISD_STATION_DATA_TYPE *currentData`, `DWORD *head`, `DWORD *tail`)
- DLLEXPORT `Bool` `ISD_RingBufferSetup` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID, `ISD_STATION_DATA_TYPE *dataBuffer`, `DWORD` samples)
- DLLEXPORT `Bool` `ISD_RingBufferStart` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID)
- DLLEXPORT `Bool` `ISD_RingBufferStop` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID)
- DLLEXPORT `Bool` DLENTY `ISD_SendScript` (`ISD_TRACKER_HANDLE` handle, `char *script`)
- DLLEXPORT `Bool` DLENTY `ISD_SetStationConfig` (`ISD_TRACKER_HANDLE` handle, `ISD_STATION_INFO_TYPE *Station`, `WORD` stationNum, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_SetTrackerConfig` (`ISD_TRACKER_HANDLE` handle, `ISD_TRACKER_INFO_TYPE *Tracker`, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_UdpBroadcastData` (`ISD_TRACKER_HANDLE` handle, `DWORD` port, `ISD_TRACKING_DATA_TYPE *trackerData`, `ISD_CAMERA_DATA_TYPE *cameraData`)

Variables

- `ISD_AUX_OUTPUT_FN_ISD_AuxOutput` = NULL
- `ISD_BORESIGHT_FN_ISD_Boresight` = NULL
- `ISD_BORESIGHT_REF_FN_ISD_BoresightReferenced` = NULL
- `ISD_COMMAND_FN_ISD_CloseTracker` = NULL

- `ISD_COMMAND_FN_ISD_ConfigSave` = NULL
- `ISD_CONFIG_FILE_FN_ISD_ConfigureFromFile` = NULL
- `ISD_CAMERA_DATA_FN_ISD_GetCameraData` = NULL
- `ISD_COMM_INFO_FN_ISD_GetCommInfo` = NULL
- `ISD_STATION_CONFIG_FN_ISD_GetStationConfig` = NULL
- `ISD_GET_HARDW_INFO_FN_ISD_GetStationHardwareInfo` = NULL
- `ISD_SYS_INFO_FN_ISD_GetSystemHardwareInfo` = NULL
- `ISD_GET_TIME_ISD_GetTime` = NULL
- `ISD_SYSTEM_CONFIG_FN_ISD_GetTrackerConfig` = NULL
- `ISD_DATA_FN_ISD_GetTrackingData` = NULL
- `ISD_COUNT_FN_ISD_NumOpenTrackers` = NULL
- `ISD_OPEN_ALL_FN_ISD_OpenAllTrackers` = NULL
- `ISD_OPEN_FN_ISD_OpenTracker` = NULL
- `ISD_RESET_HEADING_FN_ISD_ResetHeading` = NULL
- `ISD_QRY_RBUFFER_FN_ISD_RingBufferQuery` = NULL
- `ISD_SET_RBUFFER_FN_ISD_RingBufferSetup` = NULL
- `ISD_RBUFFER_FN_ISD_RingBufferStart` = NULL
- `ISD_RBUFFER_FN_ISD_RingBufferStop` = NULL
- `ISD_SCRIPT_FN_ISD_SendScript` = NULL
- `ISD_STATION_CONFIG_FN_ISD_SetStationConfig` = NULL
- `ISD_SYSTEM_CONFIG_FN_ISD_SetTrackerConfig` = NULL
- `ISD_UDP_BROADCAST_FN_ISD_UdpBroadcastData` = NULL
- `static DLL * hLib` = NULL

5.4.1 Define Documentation

5.4.1.1 `#define ISD_LIB_NAME "libisense"`

5.4.2 Typedef Documentation

5.4.2.1 `typedef void DLL`

5.4.2.2 `typedef Bool(* ISD_AUX_OUTPUT_FN)(ISD_TRACKER_HANDLE, WORD, BYTE *, WORD)`

5.4.2.3 `typedef Bool(* ISD_BORESIGHT_FN)(ISD_TRACKER_HANDLE, WORD, Bool)`

5.4.2.4 `typedef Bool(* ISD_BORESIGHT_REF_FN)(ISD_TRACKER_HANDLE, WORD, float, float, float)`

5.4.2.5 `typedef Bool(* ISD_CAMERA_DATA_FN)(ISD_TRACKER_HANDLE, ISD_CAMERA_DATA_TYPE *)`

5.4.2.6 `typedef Bool(* ISD_COMM_INFO_FN)(ISD_TRACKER_HANDLE, ISD_TRACKER_INFO_TYPE *)`

5.4.2.7 `typedef Bool(* ISD_COMMAND_FN)(ISD_TRACKER_HANDLE)`

5.4.2.8 `typedef Bool(* ISD_CONFIG_FILE_FN)(ISD_TRACKER_HANDLE, char *, Bool)`

5.4.2.9 `typedef Bool(* ISD_COUNT_FN)(WORD *)`

5.4.2.10 `typedef Bool(* ISD_DATA_FN)(ISD_TRACKER_HANDLE, ISD_TRACKING_DATA_TYPE *)`

5.4.2.11 `typedef Bool(* ISD_GET_HARDW_INFO_FN)(ISD_TRACKER_HANDLE, ISD_STATION_HARDWARE_INFO_TYPE *, WORD)`

5.4.2.12 `typedef float(* ISD_GET_TIME)(void)`

5.4.2.13 `typedef DWORD(* ISD_OPEN_ALL_FN)(Hwnd, ISD_TRACKER_HANDLE *, Bool, Bool)`

5.4.2.14 `typedef ISD_TRACKER_HANDLE(* ISD_OPEN_FN)(Hwnd, DWORD, Bool, Bool)`

5.4.2.15 `typedef Bool(* ISD_QRY_RBUFFER_FN)(ISD_TRACKER_HANDLE, WORD, ISD_STATION_DATA_TYPE *, DWORD *, DWORD *)`

5.4.2.16 `typedef Bool(* ISD_RBUFFER_FN)(ISD_TRACKER_HANDLE, WORD)`

5.4.2.17 `typedef Bool(* ISD_RESET_HEADING_FN)(ISD_TRACKER_HANDLE, WORD)`

5.4.2.18 `typedef Bool(* ISD_SCRIPT_FN)(ISD_TRACKER_HANDLE, char *)`

5.4.2.19 `typedef Bool(* ISD_SET_RBUFFER_FN)(ISD_TRACKER_HANDLE, WORD, ISD_STATION_DATA_TYPE *, DWORD)`

5.4.2.20 `typedef Bool(* ISD_STATION_CONFIG_FN)(ISD_TRACKER_HANDLE, ISD_STATION_INFO_TYPE *, WORD, Bool)`

5.4.2.21 `typedef Bool(* ISD_SYS_INFO_FN)(ISD_TRACKER_HANDLE, ISD_HARDWARE_INFO_TYPE *)`

5.4.2.22 `typedef Bool(* ISD_SYSTEM_CONFIG_FN)(ISD_TRACKER_HANDLE, ISD_TRACKER_INFO_TYPE *, Bool)`

5.4.2.23 `typedef Bool(* ISD_UDP_BROADCAST_FN)(ISD_TRACKER_HANDLE, DWORD, ISD_TRACKING_DATA_TYPE *, ISD_CAMERA_DATA_TYPE *)`

5.4.3 Function Documentation

5.4.3.1 `static DLL_EP dll_entrpoint (DLL * dll, const char * name) [static]`

5.4.3.2 `static DLL * dll_load (const char * name) [static]`

5.4.3.3 `static void dll_unload (DLL * dll) [static]`

5.4.3.4 `DLLEXPORT Bool DLENTY ISD_AuxOutput (ISD_TRACKER_HANDLE handle, WORD stationID, BYTE * AuxOutput, WORD length)`

5.4.3.5 `DLLEXPORT Bool DLENTY ISD_Boresight (ISD_TRACKER_HANDLE handle, WORD stationNum, Bool set)`

5.4.3.6 `DLLEXPORT Bool DLENTY ISD_BoresightReferenced (ISD_TRACKER_HANDLE handle, WORD stationNum, float yaw, float pitch, float roll)`

5.4.3.7 `DLLEXPORT Bool DLENTY ISD_CloseTracker (ISD_TRACKER_HANDLE handle)`

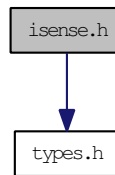
5.4.3.8 `DLLEXPORT Bool DLENTY ISD_ConfigSave (ISD_TRACKER_HANDLE handle)`

5.4.3.9 `DLLEXPORT Bool DLENTY ISD_ConfigureFromFile (ISD_TRACKER_HANDLE handle, char * path, Bool verbose)`

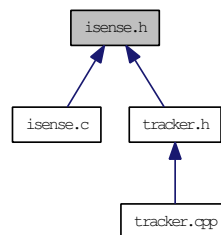
5.5 isense.h File Reference

```
#include "types.h"
```

Include dependency graph for isense.h:



This graph shows which files directly or indirectly include this file:



Classes

- struct [ISD_CAMERA_DATA_TYPE](#)
- struct [ISD_CAMERA_ENCODER_DATA_TYPE](#)
- struct [ISD_HARDWARE_INFO_TYPE](#)
- struct [ISD_STATION_DATA_TYPE](#)
- struct [ISD_STATION_HARDWARE_INFO_TYPE](#)
- struct [ISD_STATION_INFO_TYPE](#)
- struct [ISD_TRACKER_INFO_TYPE](#)
- struct [ISD_TRACKING_DATA_TYPE](#)

Defines

- #define [DLL_EP_PTR](#) *
- #define [DLLENTY](#)
- #define [DLLEXPORT](#)
- #define [FALSE](#) 0
- #define [ISD_DEFAULT_FRAME](#) 1
- #define [ISD_EULER](#) 1
- #define [ISD_MAX_AUX_INPUTS](#) 4
- #define [ISD_MAX_AUX_OUTPUTS](#) 4
- #define [ISD_MAX_BUTTONS](#) 8
- #define [ISD_MAX_CHANNELS](#) 10
- #define [ISD_MAX_STATIONS](#) 8
- #define [ISD_MAX_TRACKERS](#) 32
- #define [ISD_QUATERNION](#) 2
- #define [ISD_VSET_FRAME](#) 2
- #define [TRUE](#) 1

Typedefs

- typedef void(* [DLL_EP](#))(void)
- typedef int [ISD_TRACKER_HANDLE](#)

Enumerations

- enum `ISD_AUX_SYSTEM_TYPE` {
`ISD_AUX_SYSTEM_NONE` = 0, `ISD_AUX_SYSTEM_ULTRASONIC`, `ISD_AUX_SYSTEM_OPTICAL`,
`ISD_AUX_SYSTEM_MAGNETIC`,
`ISD_AUX_SYSTEM_RF`, `ISD_AUX_SYSTEM_GPS` }
- enum `ISD_INTERFACE_TYPE` {
`ISD_INTERFACE_UNKNOWN` = 0, `ISD_INTERFACE_SERIAL`, `ISD_INTERFACE_USB`, `ISD_-`
`INTERFACE_ETHERNET_UDP`,
`ISD_INTERFACE_ETHERNET_TCP`, `ISD_INTERFACE_IOCARD`, `ISD_INTERFACE_PCMCIA`, `ISD_-`
`INTERFACE_FILE` }
- enum `ISD_SYSTEM_MODEL` {
`ISD_UNKNOWN` = 0, `ISD_IS300`, `ISD_IS600`, `ISD_IS900`,
`ISD_INTERTRAX`, `ISD_INTERTRAX_2`, `ISD_INTERTRAX_LS`, `ISD_INTERTRAX_LC`,
`ISD_ICUBE2`, `ISD_ICUBE2_PRO`, `ISD_IS1200`, `ISD_ICUBE3`,
`ISD_ICUBE4`, `ISD_INTERTRAX_3`, `ISD_IMUK`, `ISD_ICUBE2B_PRO` }
- enum `ISD_SYSTEM_TYPE` { `ISD_NONE` = 0, `ISD_PRECISION_SERIES`, `ISD_INTERTRAX_SERIES` }

Functions

- DLLEXPORT `Bool` DLENTY `ISD_AuxOutput` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID, `BYTE` *AuxOutput, `WORD` length)
- DLLEXPORT `Bool` DLENTY `ISD_Boresight` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID, `Bool` set)
- DLLEXPORT `Bool` DLENTY `ISD_BoresightReferenced` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID, float yaw, float pitch, float roll)
- DLLEXPORT `Bool` DLENTY `ISD_CloseTracker` (`ISD_TRACKER_HANDLE` handle)
- DLLEXPORT `Bool` `ISD_ConfigSave` (`ISD_TRACKER_HANDLE` handle)
- DLLEXPORT `Bool` `ISD_ConfigureFromFile` (`ISD_TRACKER_HANDLE` handle, char *path, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_GetCameraData` (`ISD_TRACKER_HANDLE` handle, `ISD_CAMERA_-`
`DATA_TYPE` *Data)
- DLLEXPORT `Bool` DLENTY `ISD_GetCommInfo` (`ISD_TRACKER_HANDLE` handle, `ISD_TRACKER_-`
`INFO_TYPE` *Tracker)
- DLLEXPORT `Bool` DLENTY `ISD_GetStationConfig` (`ISD_TRACKER_HANDLE` handle, `ISD_STATION_-`
`INFO_TYPE` *Station, `WORD` stationID, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_GetStationHardwareInfo` (`ISD_TRACKER_HANDLE` handle, `ISD_-`
`STATION_HARDWARE_INFO_TYPE` *info, `WORD` stationID)
- DLLEXPORT `Bool` DLENTY `ISD_GetSystemHardwareInfo` (`ISD_TRACKER_HANDLE` handle, `ISD_-`
`HARDWARE_INFO_TYPE` *hwInfo)
- DLLEXPORT float DLENTY `ISD_GetTime` (void)
- DLLEXPORT `Bool` DLENTY `ISD_GetTrackerConfig` (`ISD_TRACKER_HANDLE` handle, `ISD_-`
`TRACKER_INFO_TYPE` *Tracker, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_GetTrackingData` (`ISD_TRACKER_HANDLE` handle, `ISD_-`
`TRACKING_DATA_TYPE` *Data)
- DLLEXPORT `Bool` DLENTY `ISD_NumOpenTrackers` (`WORD` *num)
- DLLEXPORT `DWORD` DLENTY `ISD_OpenAllTrackers` (Hwnd hParent, `ISD_TRACKER_HANDLE` *handle, `Bool` infoScreen, `Bool` verbose)
- DLLEXPORT `ISD_TRACKER_HANDLE` DLENTY `ISD_OpenTracker` (Hwnd hParent, `DWORD` comm-
Port, `Bool` infoScreen, `Bool` verbose)
- DLLEXPORT `Bool` DLENTY `ISD_ResetHeading` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID)
- DLLEXPORT `Bool` `ISD_RingBufferQuery` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID, `ISD_-`
`STATION_DATA_TYPE` *currentData, `DWORD` *head, `DWORD` *tail)
- DLLEXPORT `Bool` `ISD_RingBufferSetup` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID, `ISD_-`
`STATION_DATA_TYPE` *dataBuffer, `DWORD` samples)
- DLLEXPORT `Bool` `ISD_RingBufferStart` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID)
- DLLEXPORT `Bool` `ISD_RingBufferStop` (`ISD_TRACKER_HANDLE` handle, `WORD` stationID)

- DLLEXPORT Bool DLENTY ISD_SendScript (ISD_TRACKER_HANDLE handle, char *script)
- DLLEXPORT Bool DLENTY ISD_SetStationConfig (ISD_TRACKER_HANDLE handle, ISD_STATION_INFO_TYPE *Station, WORD stationID, Bool verbose)
- DLLEXPORT Bool DLENTY ISD_SetTrackerConfig (ISD_TRACKER_HANDLE handle, ISD_TRACKER_INFO_TYPE *Tracker, Bool verbose)
- DLLEXPORT Bool DLENTY ISD_UdpDataBroadcast (ISD_TRACKER_HANDLE handle, DWORD port, ISD_TRACKING_DATA_TYPE *trackingData, ISD_CAMERA_DATA_TYPE *cameraData)

5.5.1 Define Documentation

5.5.1.1 #define DLL_EP_PTR *

5.5.1.2 #define DLENTY

5.5.1.3 #define DLLEXPORT

5.5.1.4 #define FALSE 0

5.5.1.5 #define ISD_DEFAULT_FRAME 1

5.5.1.6 #define ISD_EULER 1

5.5.1.7 #define ISD_MAX_AUX_INPUTS 4

5.5.1.8 #define ISD_MAX_AUX_OUTPUTS 4

5.5.1.9 #define ISD_MAX_BUTTONS 8

5.5.1.10 #define ISD_MAX_CHANNELS 10

5.5.1.11 #define ISD_MAX_STATIONS 8

5.5.1.12 #define ISD_MAX_TRACKERS 32

5.5.1.13 #define ISD_QUATERNION 2

5.5.1.14 #define ISD_VSET_FRAME 2

5.5.1.15 #define TRUE 1

5.5.2 Typedef Documentation

5.5.2.1 typedef void(* DLL_EP)(void)

5.5.2.2 typedef int ISD_TRACKER_HANDLE

5.5.3 Enumeration Type Documentation

5.5.3.1 enum ISD_AUX_SYSTEM_TYPE

Enumerator:

ISD_AUX_SYSTEM_NONE

ISD_AUX_SYSTEM_ULTRASONIC

ISD_AUX_SYSTEM_OPTICAL

ISD_AUX_SYSTEM_MAGNETIC

ISD_AUX_SYSTEM_RF

ISD_AUX_SYSTEM_GPS

5.5.3.2 enum ISD_INTERFACE_TYPE

Enumerator:

ISD_INTERFACE_UNKNOWN

ISD_INTERFACE_SERIAL

ISD_INTERFACE_USB

ISD_INTERFACE_ETHERNET_UDP

ISD_INTERFACE_ETHERNET_TCP

ISD_INTERFACE_IOCARD

ISD_INTERFACE_PCMCIA

ISD_INTERFACE_FILE

5.5.3.3 enum ISD_SYSTEM_MODEL

Enumerator:

ISD_UNKNOWN

ISD_IS300

ISD_IS600

ISD_IS900

ISD_INTERTRAX

ISD_INTERTRAX_2

ISD_INTERTRAX_LS

ISD_INTERTRAX_LC

ISD_ICUBE2

ISD_ICUBE2_PRO

ISD_IS1200

ISD_ICUBE3

ISD_ICUBE4

ISD_INTERTRAX_3

ISD_IMUK

ISD_ICUBE2B_PRO

5.5.3.4 enum ISD_SYSTEM_TYPE

Enumerator:

ISD_NONE

ISD_PRECISION_SERIES

ISD_INTERTRAX_SERIES

5.5.4 Function Documentation

- 5.5.4.1 DLLEXPORT Bool DLLENTY ISD_AuxOutput (ISD_TRACKER_HANDLE *handle*, WORD *stationID*, BYTE * *AuxOutput*, WORD *length*)
- 5.5.4.2 DLLEXPORT Bool DLLENTY ISD_Boresight (ISD_TRACKER_HANDLE *handle*, WORD *stationID*, Bool *set*)
- 5.5.4.3 DLLEXPORT Bool DLLENTY ISD_BoresightReferenced (ISD_TRACKER_HANDLE *handle*, WORD *stationID*, float *yaw*, float *pitch*, float *roll*)
- 5.5.4.4 DLLEXPORT Bool DLLENTY ISD_CloseTracker (ISD_TRACKER_HANDLE *handle*)
- 5.5.4.5 DLLEXPORT Bool ISD_ConfigSave (ISD_TRACKER_HANDLE *handle*)
- 5.5.4.6 DLLEXPORT Bool ISD_ConfigureFromFile (ISD_TRACKER_HANDLE *handle*, char * *path*, Bool *verbose*)
- 5.5.4.7 DLLEXPORT Bool DLLENTY ISD_GetCameraData (ISD_TRACKER_HANDLE *handle*, ISD_CAMERA_DATA_TYPE * *Data*)
- 5.5.4.8 DLLEXPORT Bool DLLENTY ISD_GetCommInfo (ISD_TRACKER_HANDLE *handle*, ISD_TRACKER_INFO_TYPE * *Tracker*)
- 5.5.4.9 DLLEXPORT Bool DLLENTY ISD_GetStationConfig (ISD_TRACKER_HANDLE *handle*, ISD_STATION_INFO_TYPE * *Station*, WORD *stationID*, Bool *verbose*)
- 5.5.4.10 DLLEXPORT Bool DLLENTY ISD_GetStationHardwareInfo (ISD_TRACKER_HANDLE *handle*, ISD_STATION_HARDWARE_INFO_TYPE * *info*, WORD *stationID*)
- 5.5.4.11 DLLEXPORT Bool DLLENTY ISD_GetSystemHardwareInfo (ISD_TRACKER_HANDLE *handle*, ISD_HARDWARE_INFO_TYPE * *hwInfo*)
- 5.5.4.12 DLLEXPORT float DLLENTY ISD_GetTime (void)
- 5.5.4.13 DLLEXPORT Bool DLLENTY ISD_GetTrackerConfig (ISD_TRACKER_HANDLE *handle*, ISD_TRACKER_INFO_TYPE * *Tracker*, Bool *verbose*)
- 5.5.4.14 DLLEXPORT Bool DLLENTY ISD_GetTrackingData (ISD_TRACKER_HANDLE *handle*, ISD_TRACKING_DATA_TYPE * *Data*)
- 5.5.4.15 DLLEXPORT Bool DLLENTY ISD_NumOpenTrackers (WORD * *num*)
- 5.5.4.16 DLLEXPORT DWORD DLLENTY ISD_OpenAllTrackers (Hwnd *hParent*, ISD_TRACKER_HANDLE * *handle*, Bool *infoScreen*, Bool *verbose*)
- 5.5.4.17 DLLEXPORT ISD_TRACKER_HANDLE DLLENTY ISD_OpenTracker (Hwnd *hParent*, DWORD *commPort*, Bool *infoScreen*, Bool *verbose*)
- 5.5.4.18 DLLEXPORT Bool DLLENTY ISD_ResetHeading (ISD_TRACKER_HANDLE *handle*, WORD *stationID*)
- 5.5.4.19 DLLEXPORT Bool ISD_RingBufferQuery (ISD_TRACKER_HANDLE *handle*, WORD *stationID*, ISD_STATION_DATA_TYPE * *currentData*, DWORD * *head*, DWORD * *tail*)
- 5.5.4.20 DLLEXPORT Bool ISD_RingBufferSetup (ISD_TRACKER_HANDLE *handle*, WORD *stationID*, ISD_STATION_DATA_TYPE * *dataBuffer*, DWORD *samples*)
- 5.5.4.21 DLLEXPORT Bool ISD_RingBufferStart (ISD_TRACKER_HANDLE *handle*, WORD *stationID*)
- 5.5.4.22 DLLEXPORT Bool ISD_RingBufferStop (ISD_TRACKER_HANDLE *handle*, WORD *stationID*)
- 5.5.4.23 DLLEXPORT Bool DLLENTY ISD_SendScript (ISD_TRACKER_HANDLE *handle*, char * *script*)
- 5.5.4.24 DLLEXPORT Bool DLLENTY ISD_SetStationConfig (ISD_TRACKER_HANDLE *handle*, ISD_STATION_INFO_TYPE * *Station*, WORD *stationID*, Bool *verbose*)
- 5.5.4.25 DLLEXPORT Bool DLLENTY ISD_SetTrackerConfig (ISD_TRACKER_HANDLE *handle*, ISD_TRACKER_INFO_TYPE * *Tracker*, Bool *verbose*)
- 5.5.4.26 DLLEXPORT Bool DLLENTY ISD_UdpDataBroadcast (ISD_TRACKER_HANDLE *handle*, DWORD *port*, ISD_TRACKING_DATA_TYPE * *trackingData*, ISD_CAMERA_DATA_TYPE * *cameraData*)

5.6 mainpage.h File Reference

5.6.1 Detailed Description

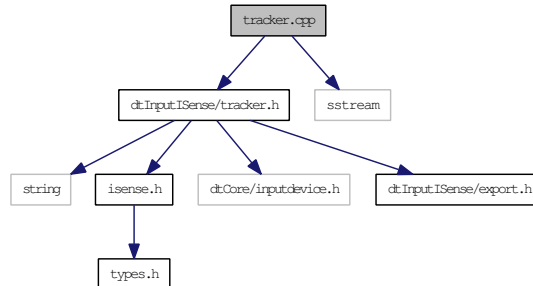
This file contains Doxygen special commands and text for the [Main Page](#) and some other minor aspects of this documentation. It is not part of Delta3D.

5.7 tracker.cpp File Reference

```
#include <dtInputISense/tracker.h>
```

```
#include <sstream>
```

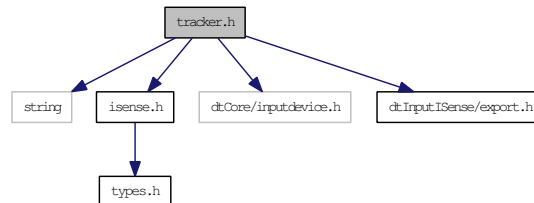
Include dependency graph for tracker.cpp:



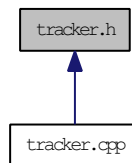
5.8 tracker.h File Reference

```
#include <string>
#include "isense.h"
#include <dtCore/inputdevice.h>
#include <dtInputISense/export.h>
```

Include dependency graph for tracker.h:



This graph shows which files directly or indirectly include this file:



Classes

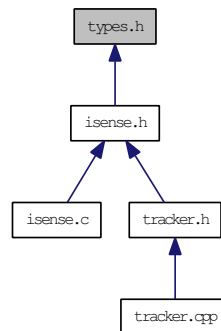
- class [Tracker](#)
A tracker device.

Namespaces

- namespace [dtInputSense](#)
The dtInputSense namespace contains classes that allow for reading of Intersense (<http://www.isense.com/>) tracker devices.

5.9 types.h File Reference

This graph shows which files directly or indirectly include this file:



Typedefs

- typedef long [Bool](#)
- typedef unsigned char [BYTE](#)
- typedef unsigned long [DWORD](#)
- typedef long [Hwnd](#)
- typedef long [LONG](#)
- typedef unsigned short [WORD](#)

5.9.1 Typedef Documentation

5.9.1.1 typedef long Bool

5.9.1.2 typedef unsigned char BYTE

5.9.1.3 typedef unsigned long DWORD

5.9.1.4 typedef long Hwnd

5.9.1.5 typedef long LONG

5.9.1.6 typedef unsigned short WORD

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