



ATC3DG
MAC Installation Guide

7/5/10
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Overview

This guide describes the software installation procedure for Ascension driveBAY and trakSTAR products for MAC systems. This Package has been tested on MAC OS 10.5 Leopard.

Installation

Step 1.

The software installation for MAC is packaged in a PKG file.
'3DGuidance.Rev.E.pkg'

Ascension Technology Corporation supplies this document and the PKG file as a pair. It can be obtained via the company website,
www.ascension-tech.com

Step 2.

Log in as 'Administrator'.
Using 'Finder', peruse to the '3DGuidance.Rev.E.pkg' file.
Double-click on the '3DGuidance.Rev.E.pkg' file.
The installation wizard will guide you through the install process.

Step 3.

Three API sample applications are provided as part of the PKG installation.
In order to build these applications as a non-root user, copy the

'/opt/3DGuidance.Rev.E.64/Samples'

directory to a user account sub-directory.
Users often copy the whole 'Samples' directory to the user's desktop.

The installation is complete.

Configuring the tracking device

A configuration utility is provided as part of the PKG installation.

The utility allows the user to configure, upgrade, and test the driveBAY or trakSTAR tracking device.

See the Appendices in the Installation and Operation Guide (shipped with the hardware) for more information on using the utility.

Use 'Finder' to peruse to the
'/opt/3DGuidance.Rev.E/Binaries/3DGUtility.app' application.
Double click on the application.

Test driving the ATC3DG API

An API test application is provided as part of the PKG installation.

The API test application allows the user to select individual API function calls, supply parameters, execute the API function and then examine the results of the call.

See the Appendices in the Installation and Operation Guide (shipped with the hardware) for more information on using the utility.

Use 'Finder' to peruse to the
'/opt/3DGuidance.Rev.E/Binaries/APITest.app' application.
Double click on the application.

Building the API samples

Three API sample applications are provided as part of the PKG installation.

Sample: Asynchronous data acquisition application.
Sample2: Asynchronous data acquisition application, that also
illustrates most of the API calls and many of the parameters.
GetSynchronousRecord Sample:
Synchronous data acquisition application.

Each of these sample sub-directories includes the xcode project file for building the given sample.

Use Xcode to open the sample's xcode project file.
Rebuild the sample.

NOTE: All the samples run as a 'console' applications, either run the samples from a 'terminal' window or if running under Xcode, open a console from the 'Run' menu.

Redistribution

An end user is free to redistribute the following files as part of their installation:

/usr/local/lib/libATC3DGlib.a

Uninstall

The '*3DGuidance.Rev.E.pkg*' installation file does not include a un-install feature.

The un-install must be performed manually.

Login as 'Administrator' and use 'Finder' to delete the following:

/opt/3DGuidance.Rev.E
/usr/local/lib/libATC3DGlib.a
/usr/local/bin/APITest.app
/usr/local/bin/3DGUtility.app
/private/etc/ATC3DG.ini

Installation image addendum

/private/etc:
ATC3DG.ini

/opt:
3DGuidance.Rev.E

/opt/3DGuidance.Rev.E:
3DGuidance_trakSTAR_Installation_and_Operation_Guide.pdf
trakSTAR_MUS_Installation_Guide_addendum.pdf

/opt/3DGuidance.Rev.E/3DGuidanceAPI:
ATC3DG.h
ATC3DG.ini
libATC3DGlib.a

/opt/3DGuidance.Rev.E/Binaries:
3DGUtility.app
APITest.app

/opt/3DGuidance.Rev.E/Firmware:
DiagStr.diag_bin
ErrStr.err_bin

mdsp.mdsp_ldr
poserver.po_ldr

/opt/3DGuidance.Rev.E/Samples/GetSynchronousRecord Sample:
GetSynchronousRecord Sample.xcodeproj
GetSynchronousRecordSample.cpp
GetSynchronousRecordSample.h
resource.h
StdAfx.cpp
StdAfx.h

/opt/3DGuidance.Rev.E/Samples/Sample:
resource.h
Sample.cpp
Sample.h
Sample.xcodeproj
StdAfx.cpp
StdAfx.h

/opt/3DGuidance.Rev.E/Samples/Sample2:
resource.h
Sample2.cpp
Sample2.h
Sample2.xcodeproj
StdAfx.cpp
StdAfx.h

/usr/local/bin:
3DGUtility64
APITest64

/usr/local/lib:
libATC3DGlib.a