

# **Advantech AE Technical Share Document**

Date	2015 / 09 / 03	SR#	1-2215189379
Category	■ FAQ □ SOP	Related OS	Microsoft Windows XP / 7 / 8
Abstract	Ho <b>w to d</b> o the analog output calibration (Auto)?		
Keyword	DAQNavi , analog output, calibration		
<b>Related Product</b>	DAQ devices		

## Problem Description:

This document shows how user does the analog output calibration by itself.

### Brief Solution :

Advantech's DAQ provides utility software called DAQNavi Navigator, user can do calibration though utility. Please refer step as below:

Step 1: Choose the needed device and select "Device Setting" as Figure 1:



Figure 1. Choose the device



Enabling an Intelligent Planet

Step 2: Select "Analog output Calibration", then press "Start" to do calibration, and follow the step with Navigator utility (on right side), please refer Figure 2.

#### Setting of USB-4711A,BID#0

Device     Analog Input     Channels Connection Type     Channels VRG Type     Section Data Count     Convert Clock Source     Convert Clock Rate per Channel     Scan Channel Start     Scan Channel Start     Analog Input Calibration     Analog Output     Channels Value Range Type     AO Chan	Auto Calibration Instructions 1.Select the range of D/A channels to calibrate. 2. Press [Start] button to calibrate the D/A channels. NOTE: Please STOP any AI and AO operation while doing calibration! Please connect AO Ch0 to AI Ch0, and AO Ch1 to AI Ch1. D/A Calibration 1. Adjust the gain value of D/A. 2. Adjust the offset value of D/A. Range 0 ~ 10 V •
Analog Output Manual Calibration Digital Input/Output DO Ports Initial State DI Inverse Ports Counter/Timer Timer/Pulse Frequency Update Firmware	Step       Adjust Code       A/D Voltage       Status         CH0 Step1       -       -       -         CH0 Step2       -       -       -         CH1 Step1       -       -       -         CH1 Step2       -       -       -         Image: CH1 Step3       -       -       -
✓ Update Device ✓ Update System	m Database Save

Figure 2. Analog output Calibration

## Reference:

DAQNavi Navigator Software Utility