# How to install MOVERIO ADB USB Driver

< In case of Windows >

**1   Obtain Android SDK**

1-1 Download Android Studio from the following site:

## http://developer.android.com/sdk/index.html
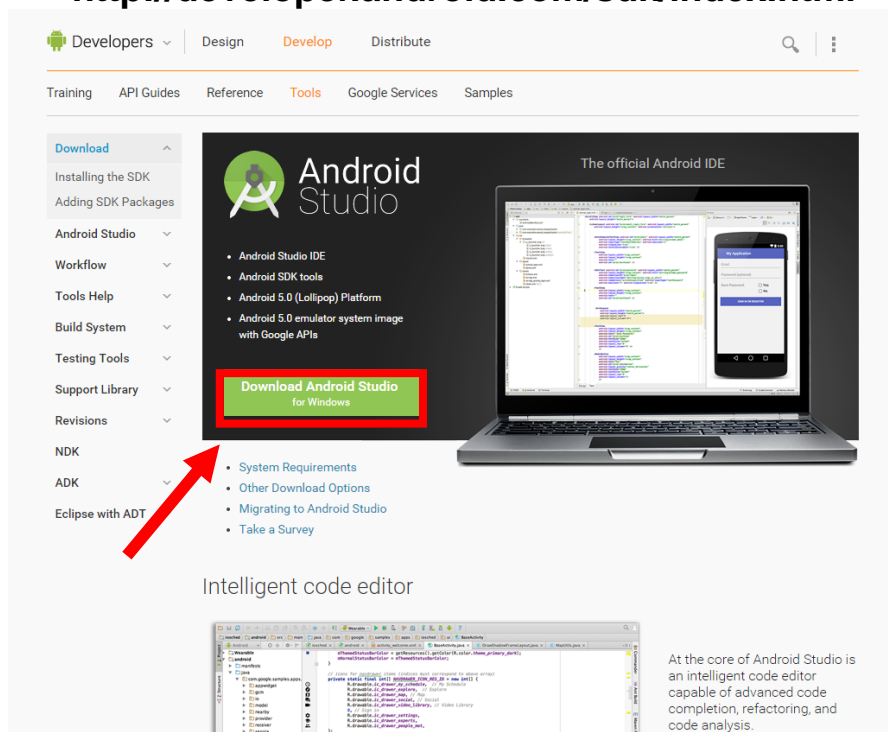


**2   Install Android Studio**

2-1   Install Android Studio by the following instruction:

Directory(default) : C:\Users\<username>\AppData\Local\Android\sdk

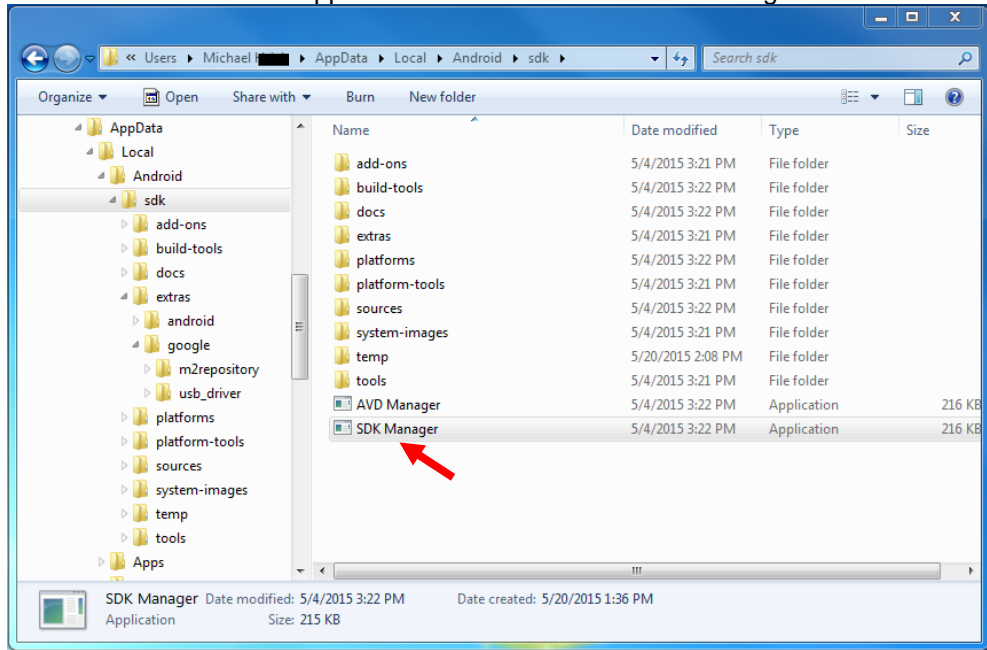<span style="color:red">※**Following section is described assuming Android Studio is installed in the above directory.**</span>

2-2   Download JDK(7 or more) from the following site.

**http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html**

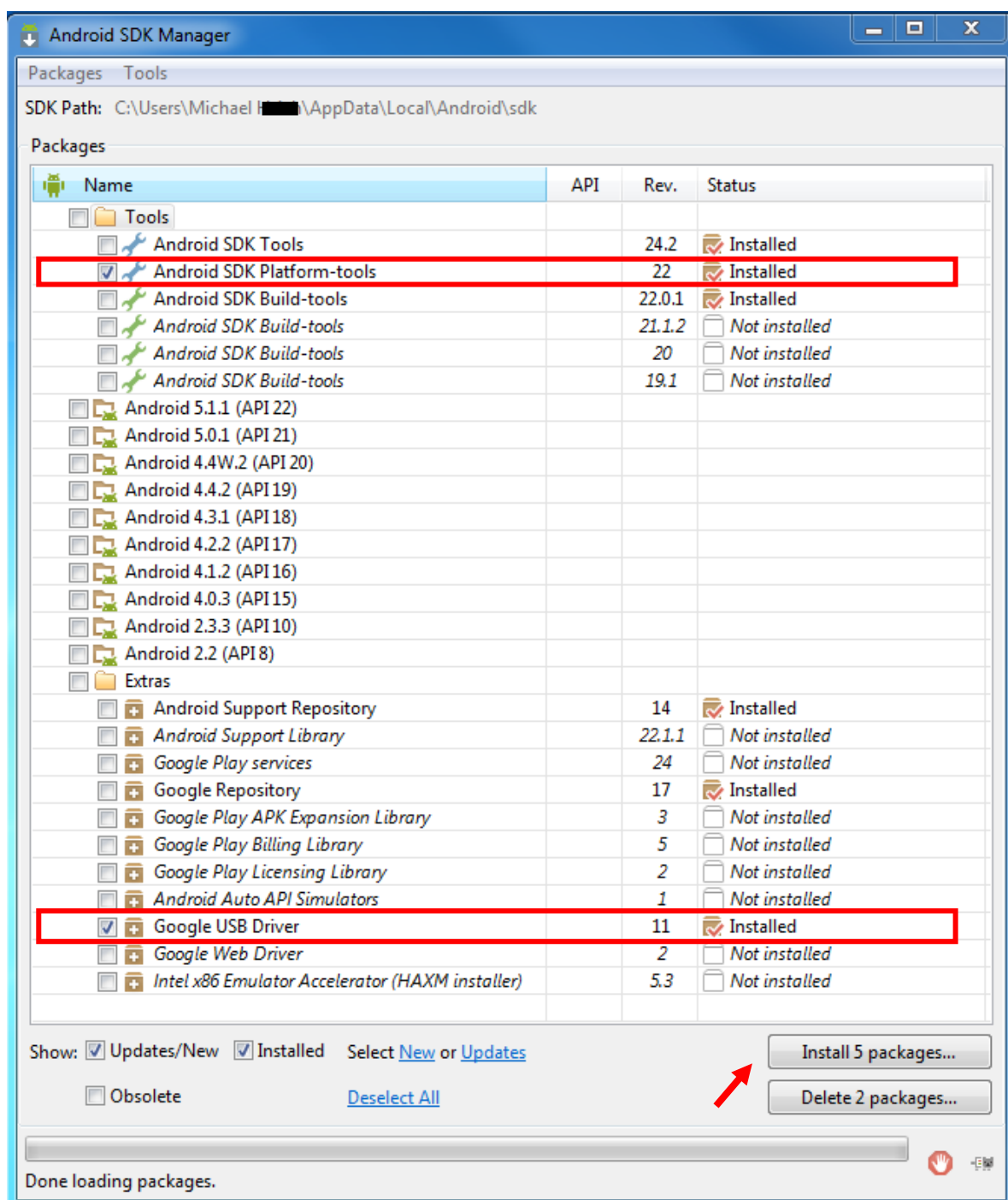## 3 Download and install Platform-tools and Driver
3-1 Execute "C:\Users\<username>\AppData\Local\Android\sdk\ SDK Manager.exe"
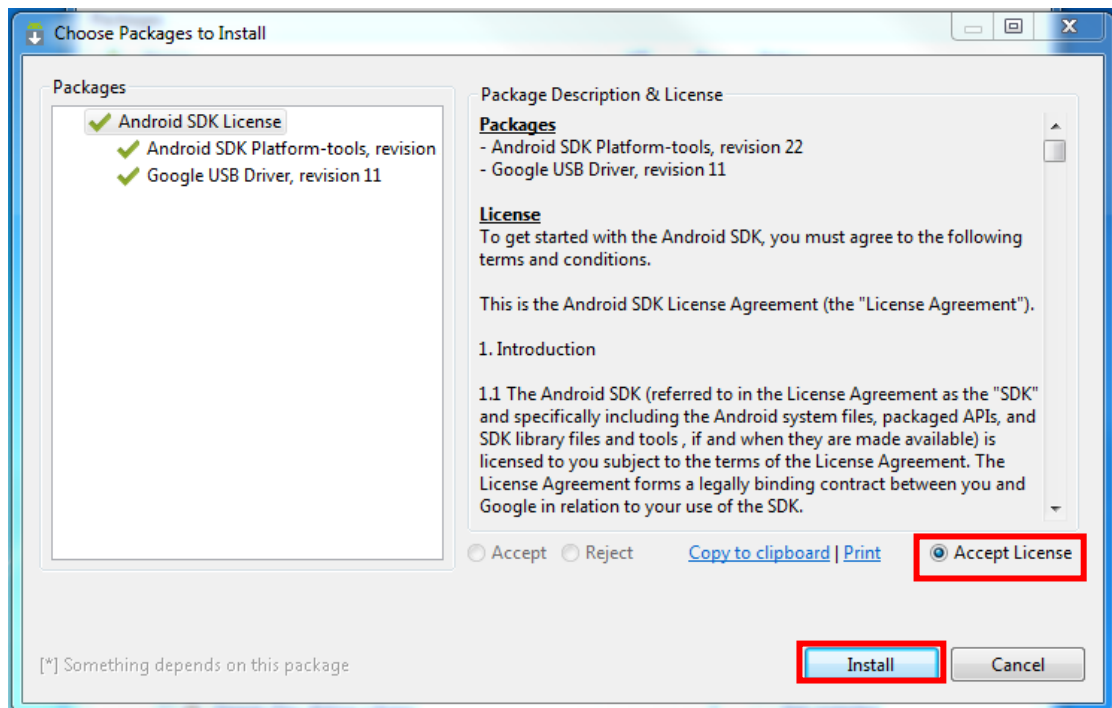


※ It may fail to launch SDK Manager with a message "No Packages found". This is because the proxy setting is not properly set. In this case, you need to close all dialogs other than "Android SDK", then select setup proxy at Tools – Options menu.
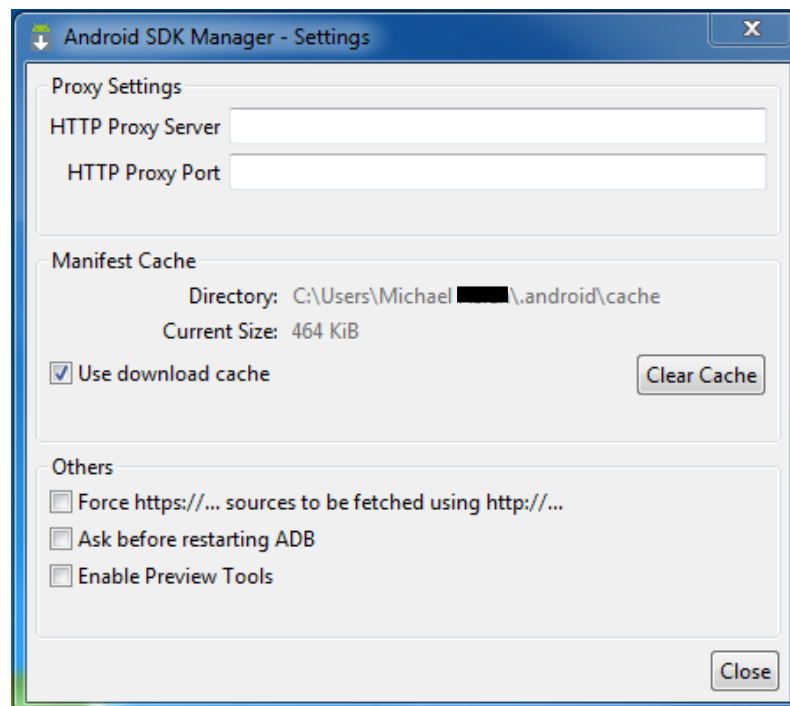
3-2 Select files and download



Check [Extras]/[Google USB Driver].
Click Accept License, then [Install] button.

**Choose Packages to Install**

Packages
- ✓ Android SDK License
  - ✓ Android SDK Platform-tools, revision
  - ✓ Google USB Driver, revision 11

Package Description & License

**Packages**
- Android SDK Platform-tools, revision 22
- Google USB Driver, revision 11

**License**
To get started with the Android SDK, you must agree to the following terms and conditions.

This is the Android SDK License Agreement (the "License Agreement").

1. Introduction

1.1 The Android SDK (referred to in the License Agreement as the "SDK" and specifically including the Android system files, packaged APIs, and SDK library files and tools , if and when they are made available) is licensed to you subject to the terms of the License Agreement. The License Agreement forms a legally binding contract between you and Google in relation to your use of the SDK.

○ Accept   ○ Reject        Copy to clipboard | Print        ● Accept License

[*] Something depends on this package

Install        Cancel

When installation is finished, the following folder is created:
**C:\Users\<username>\AppData\Local\Android\sdk\extras\google\usb_driver**
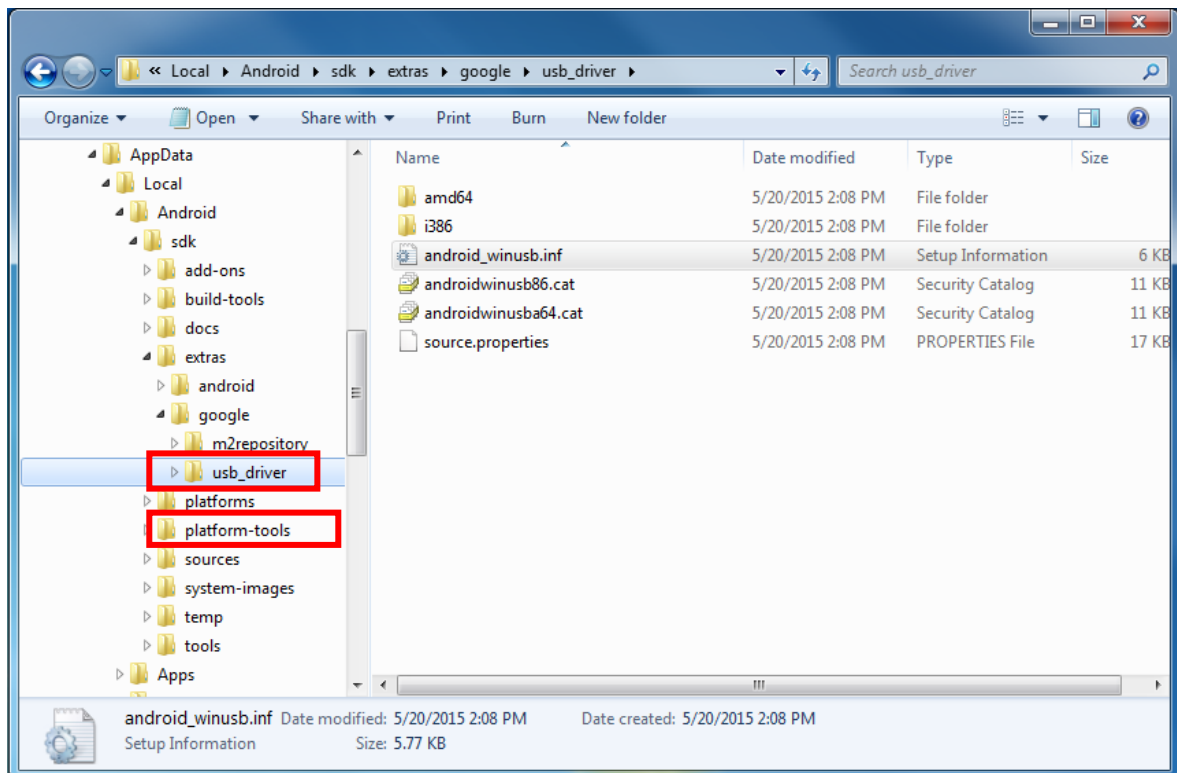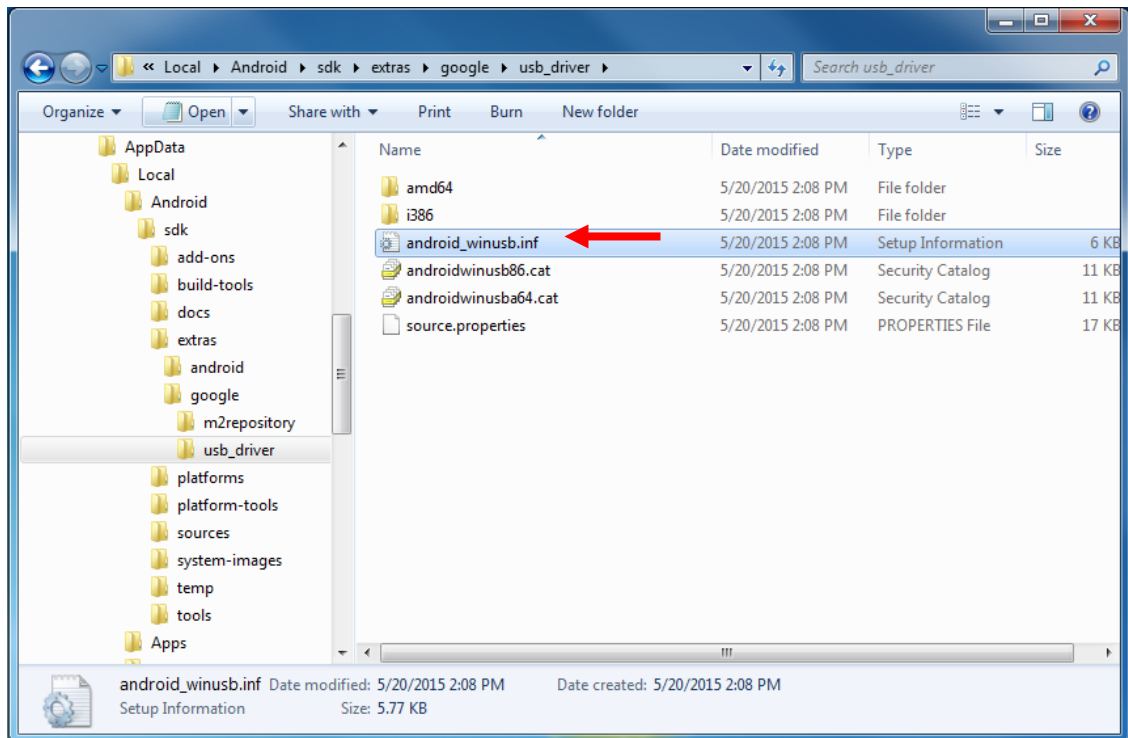


Close **Android SDK Manager.**

## 4 Setup MOVERIO to USB Driver
4-1　Add the following 4 lines at [Google.NTx86] and [Google.NTamd64] in
　　C:\Users\<username>\AppData\Local\Android\sdk\extras\google\usb_driver\android_winusb.inf file.



```
;WS2-MTP

%SingleAdbInterface% = USB_Install, USB\VID_04B8&PID_0C06

%CompositeAdbInterface% = USB_Install, USB\VID_04B8&PID_0C06&MI_01


;WS2-PTP

%SingleAdbInterface% = USB_Install, USB\VID_04B8&PID_0C07

%CompositeAdbInterface% = USB_Install, USB\VID_04B8&PID_0C07&MI_01
```

```
;Google Nexus One                                              ;Google Nexus One
%SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_0D02        %SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_0D02
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_0D02&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_0D02&MI_01
%SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_4E11        %SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_4E11
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E12&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E12&MI_01

;Google Nexus S                                                ;Google Nexus S
%SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_4E21        %SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_4E21
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E22&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E22&MI_01
%SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_4E23        %SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_4E23
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E24&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E24&MI_01

;Google Nexus 7                                                ;Google Nexus 7
%SingleBootLoaderInterface% = USB_Install, USB\VID_18D1&PID_4E40        %SingleBootLoaderInterface% = USB_Install, USB\VID_18D1&PID_4E40
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E42&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E42&MI_01
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E44&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4E44&MI_01

;Google Nexus Q                                                ;Google Nexus Q
%SingleBootLoaderInterface% = USB_Install, USB\VID_18D1&PID_2C10        %SingleBootLoaderInterface% = USB_Install, USB\VID_18D1&PID_2C10
%SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_2C11        %SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_2C11

;Google Nexus (generic)                                        ;Google Nexus (generic)
%SingleBootLoaderInterface% = USB_Install, USB\VID_18D1&PID_4EE0        %SingleBootLoaderInterface% = USB_Install, USB\VID_18D1&PID_4EE0
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4EE2&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4EE2&MI_01
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1               %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4EE4&MI_02
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1               %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4EE6&MI_01
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1               %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4EE7

;Google Glass                                                  ;Google Glass
%SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_9001        %SingleAdbInterface%        = USB_Install, USB\VID_18D1&PID_9001
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_9001&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_9001&MI_01

;Project Tango (generic)                                       ;Project Tango (generic)
%SingleBootLoaderInterface% = USB_Install, USB\VID_18D1&PID_4D00        %SingleBootLoaderInterface% = USB_Install, USB\VID_18D1&PID_4D00
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4D02&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4D02&MI_01
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4D04&MI_02  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4D04&MI_02
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4D06&MI_01  %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4D06&MI_01
%CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4D07        %CompositeAdbInterface%     = USB_Install, USB\VID_18D1&PID_4D07

;WS2-MTP                                                       ;WS2-MTP
%SingleAdbInterface% = USB_Install, USB\VID_04B8&PID_0C06              %SingleAdbInterface% = USB_Install, USB\VID_04B8&PID_0C06
%CompositeAdbInterface% = USB_Install, USB\VID_04B8&PID_0C06&MI_01     %CompositeAdbInterface% = USB_Install, USB\VID_04B8&PID_0C06&MI_01

;WS2-PTP                                                       ;WS2-PTP
%SingleAdbInterface% = USB_Install, USB\VID_04B8&PID_0C07              %SingleAdbInterface% = USB_Install, USB\VID_04B8&PID_0C07
%CompositeAdbInterface% = USB_Install, USB\VID_04B8&PID_0C07&MI_01     %CompositeAdbInterface% = USB_Install, USB\VID_04B8&PID_0C07&MI_01
```

Paste it here

4-2 Setup Vender ID to ADB
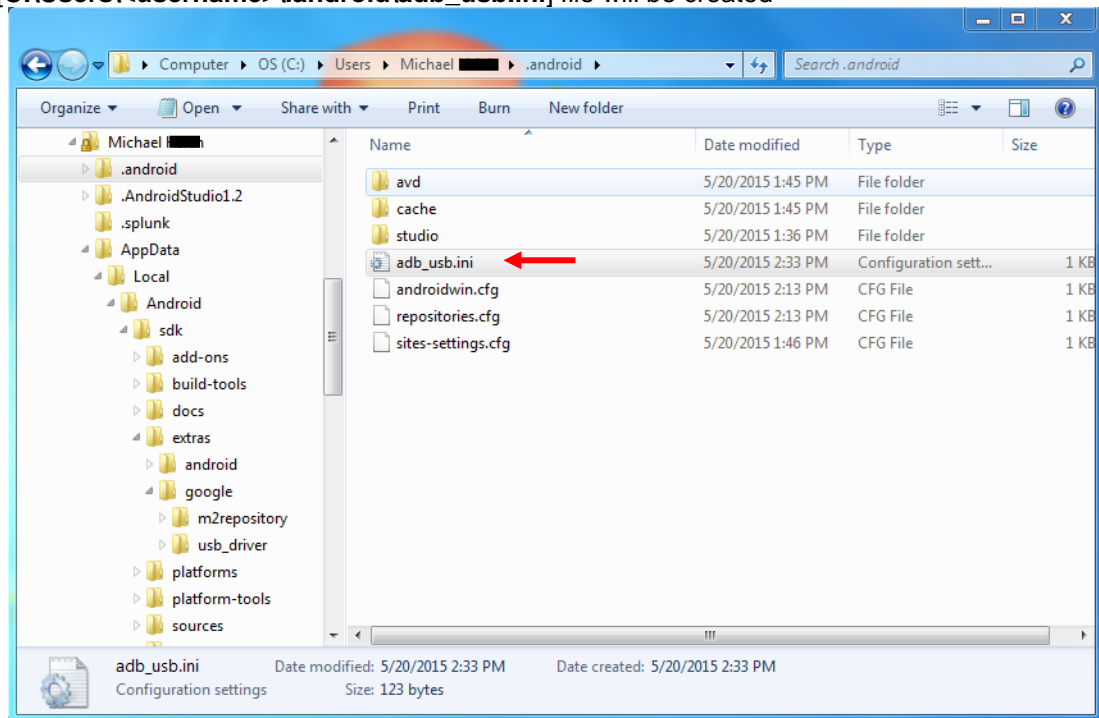   Start command prompt
   C:\>**cd AppData\Local\Android\sdk\tools**
   C:\Users\<username>\AppData\Local\Android\sdk\tools>**android.bat update adb**

```
C:\Users\Michael _____>cd AppData/Local/Android/sdk/tools

C:\Users\Michael _____\AppData\Local\Android\sdk\tools>android.bat update adb
```

As a result, [**C:\Users\<username>\.android\adb_usb.ini**] file will be created



Open this ini file with a Text Editor, and add the vender ID (ox04B8) as below:

```
# ANDROID 3RD PARTY USB VENDOR ID LIST -- DO NOT EDIT.
# USE 'android update adb' TO GENERATE.
# 1 USB VENDOR ID PER LINE.
0x04B8
```

Save the change and close the Editor.

5 Set MOVERIO USB Debug mode. (Requires a developer firmware version.　Refer to document titled, "How to Modify the System Software for Developer").
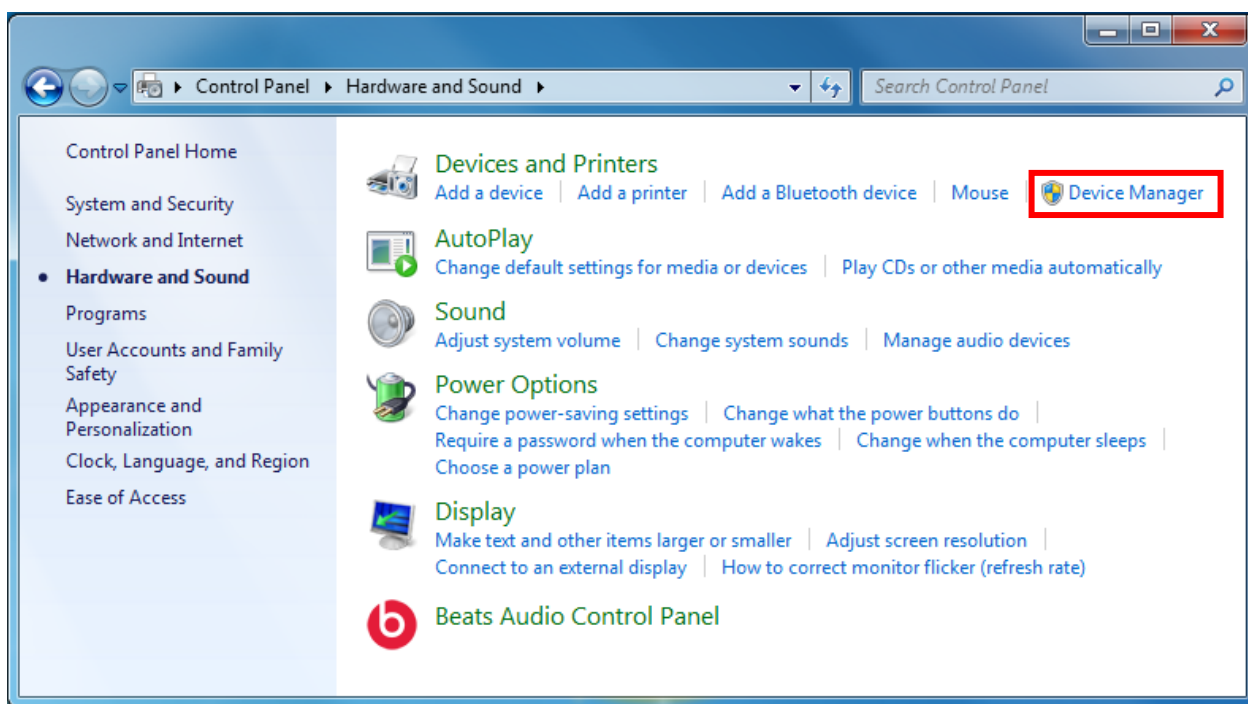　　Settings -> System -> Developer options -> Check "USB Debugging"
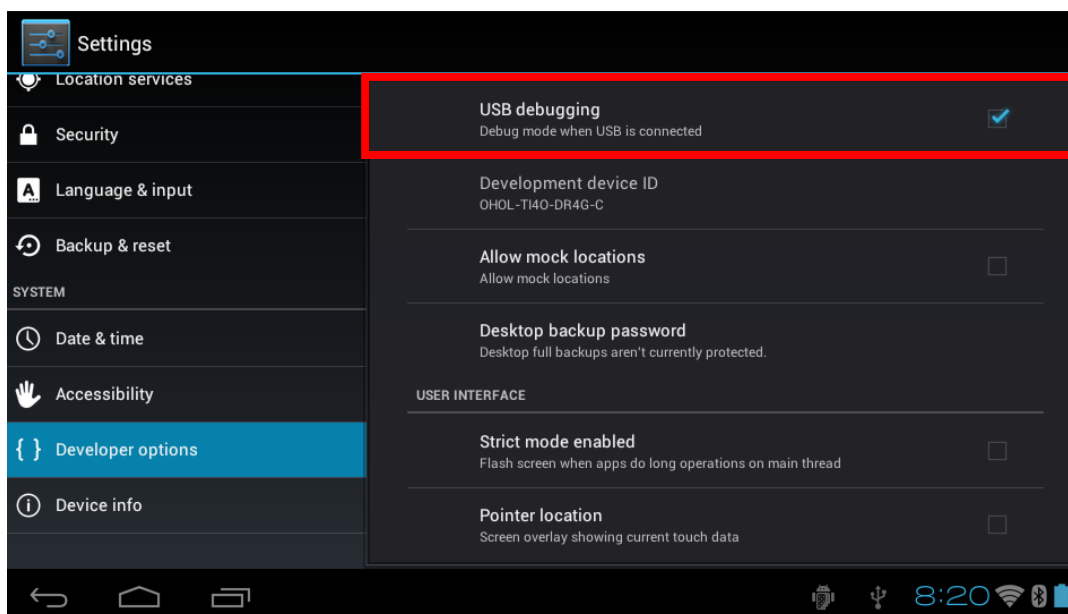


6　While MOVERIO is powered ON, connect MOVERIO to PC
　　6-1 Install driver for USB connection to PC
　　　　・Connect MOVERIO to PC. If no message appears, restart MOVERIO and connect PC again.
　　　　・If "Found new Hardware Wizard" window pops up on PC, start Control Panel, select Hardware and Sound and look for Device Manager.

・ Right click embt2 under Other Device, select "Update Driver Software...".
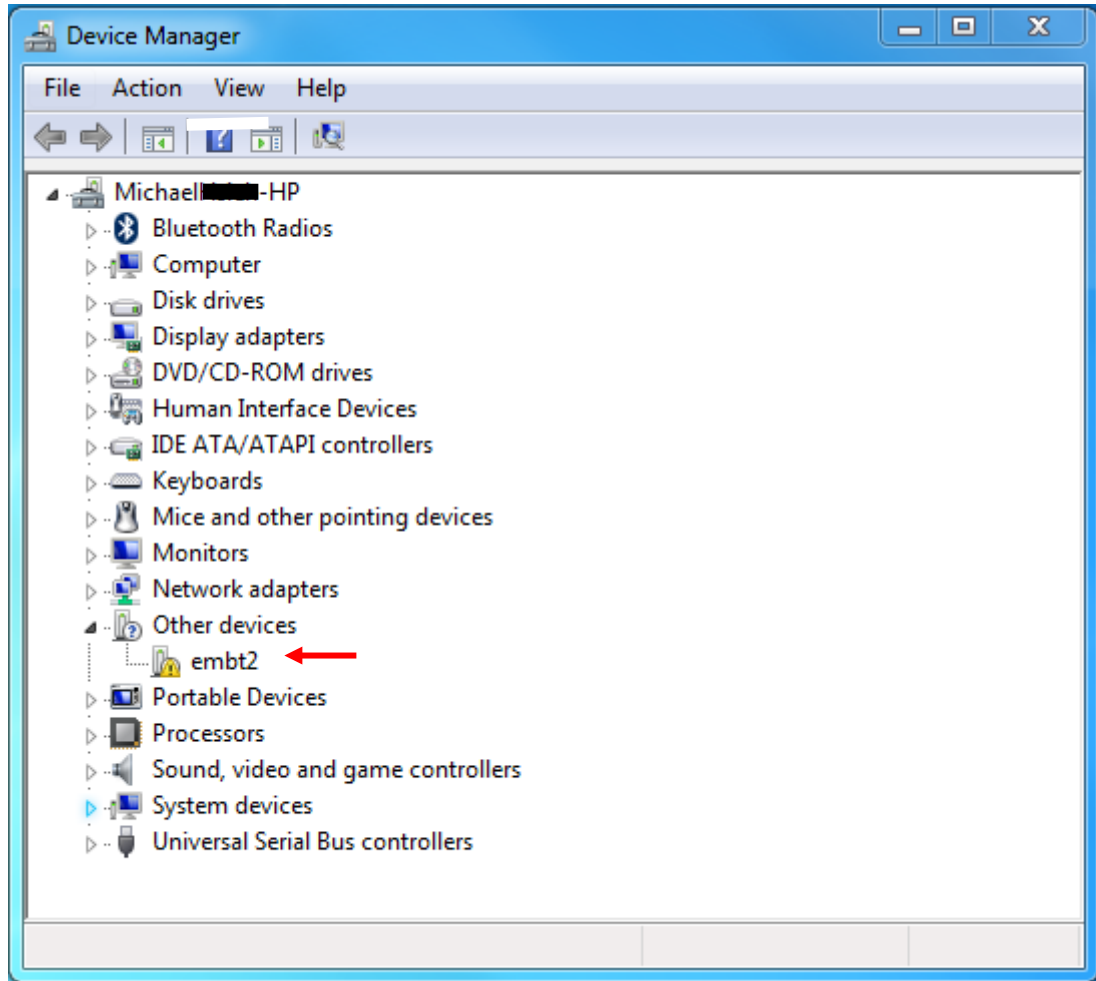


・ Select "Browse my computer for driver software".
・ Enter your specific Android SDK location to look for the USB driver -- using the following example"**C:\Users\<username>\AppData\Local\Android\sdk\extras\google\usb_driver**".
・ Once the device is registered under an "Android Device" and shows Android Composite ADB Interface; then ADB connection can be used.
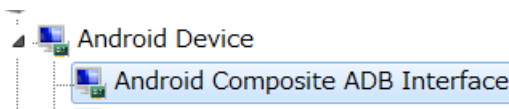


You can start using ADB for debugging..

## Confirm the connection

1   Connect MOVERIO to PC through USB cable.

2   Confirm MOVERIO to PC connection
     2-1 With command prompt, change to the following directory
"C:\Users\<username>\AppData\Local\Android\sdk\platform-tools"

      **cd AppData\Local\Android\sdk\platform-tools**

   2-2 Execute "adb devices" to confirm name of device (0123456789ABCDEF) which is displayed.
      **adb devices**

```
C:\Users\Michael ███████>cd AppData\Local\Android\sdk\platform-tools

C:\Users\Michael ███████\AppData\Local\Android\sdk\platform-tools>adb devices
List of devices attached
0123456789ABCDEF        device


C:\Users\Michael ███████\AppData\Local\Android\sdk\platform-tools>
```

   If name of device (0123456789ABCDEF) is not displayed, repeat set 1 and 2 by re-connecting MOVERIO.


## Revision History

| Rev | Contents | Date |
|-----|----------|------|
| 6.0 | Newly Created | 2014.03.20 |
| 7.0 | Modified procedure for Android Studio | 2015.05.21 |