

ET-L10 Series

Android 9 Quick Start Guide

This document is a Development Guide Book for ET-L10 application developers.



No part of this document may be produced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of CASIO COMPUTER CO.,LTD. in Tokyo Japan. Information in this document is subject to change without advance notice.

CASIO COMPUTER CO.,LTD. makes no representations or warranties with respect to the contents or use of this manual and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose.

© 2019 CASIO COMPUTER CO., LTD.

- The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by CASIO COMPUTER CO.,LTD. is under license. Other trademarks and trade names are those of their respective owners.
- Wi-Fi is a registered trademark of Wi-Fi Alliance.
- Android, Android Wear, Google, Google Play, Google Now and other marks are trademarks of Google LLC.
- Other company, product and service names used in this manual also may be trademarks or registered trademarks of others.

- Table of contents -

1. C)verview ·····2
1.1	Structure ······3
1.2	Version ·····4
1.3	Notes ······4
2. C	Development requirement
2.1	Required system ······5
3. C	Development enviorment ······6
3.1	Recommended enviorment ······6
3.2	Construction steps ·····7
3	.2.1 Android Studio
3	.2.2 Android SDK and USB driver
3	.2.3 Application development

1. Overview

ET-L10 is the device that is suitable for light work which is located between the conventional rugged handy terminal and a smart phone. This document is a development guidebook written for the ET-L10 application developers.

ET-L10 was developed as the device for customers who want to use smartphones for work but are not satisfied with smartphones.

Conventional rugged handy terminal required specialized knowledge to control barcode scanner, but ET-L10 does not need it.

From the getting date, it is set to be able to read all barcodes with standard Android application.

Customers who want to make advanced settings for the barcode scanner can use the setting tool instead of modifying their application.

Of course, they can control the barcode scanner also from the application by issuing scanner intents.

Refer to the "Barcode scanner control manual" for details on the setting tool and the intent for controlling the barcode scanner from the application.



1.1 Structure

The following figure shows the structure of this kit.

Folder / File	Description			
/MANUAL	This folder contains manuals.			
QuickStartGuide.pdf	A guidebook for developers to read first. Describes the application development requirements and development enviorment.			
SoftwareManual.pdf	This is a manual for the installed software. Describes the basic specifications of the software.			
HardwareManual.pdf	This is a manual for the hardware. Describes a note on handling and operation of the device.			
BarcodeScannerControlManual.pdf	This is a manual for the barcode scanner. Describes how to control from the setting tool and how to create a control application.			
KittingManual.pdf	This is a manual for the "Kitting". Describes the kitting procedure for making the device ready for business use.			
/SOFTWARE	This folder contains softwares			
/Scanner	This folder contains about scanner			
/Sample/SymbolScan.zip	Sample code for controlling the barcode scanner.			
/OSUpdateService	This folder contains about OSUpdateService			
/bin/OSUpdateServiceXXXXXXXXXX.apk (X means the version)	APK file of OSUpdateService			
/Sample/OSUpdateSample.zip	Sample code for using the OSUpdateService			

1.2 Version

The version number of this development kit consists of a combination of major version and minor version, as shown below.



The major number represents the version of Device (i.e. ET-L10). If updates manuals etc., its minor version number is increased.

1.3 Notes

Notes for using this development kit are as follows.

There is a dependency between the version of Android Studio and the version of the Basic Development Kit. For details, refer to "3.1 Recommended enviorment (p.6)".

Please contact the distributor to get the latest version of development Kit.

2. Development requirement

2.1 Required system

[Windows]

- Microsoft® Windows® 7/8/10 (32- or 64-bit)
- 3 GB RAM minimum, 8 GB RAM recommended. plus 1 GB for the Android Emulator
- 2 GB of available disk space minimum
- 4 GB Recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- For accelerated emulator: Intel® processor with support for Intel® VT-x, Intel® EM64T (Intel® 64), and Execute Disable (XD) Bit functionality

[Mac]

- Mac® OS X® 10.10 (Yosemite) or higher, up to 10.13 (macOS Sierra)
- 3 GB RAM minimum, 8 GB RAM recommended; plus 1 GB for the Android Emulator
- 2 GB of available disk space minimum
- 4 GB Recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution

[Linux]

- GNOME or KDE desktop
- Tested on Ubuntu® 18.04 LTS, Trusty Tahr (64-bit distribution capable of running 32-bit applications)
- 64-bit distribution capable of running 32-bit applications
- GNU C Library (glibc) 2.19 or later
- 3 GB RAM minimum, 8 GB RAM recommended; plus 1 GB for the Android Emulator
- 2 GB of available disk space minimum
- 4 GB Recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- For accelerated emulator: Intel® processor with support for Intel® VT-x, Intel® EM64T (Intel® 64), and Execute Disable (XD) Bit functionality, or AMD processor with support for AMD Virtualization[™] (AMD-V[™])

Note!

The explanation after the next chapter is all for Windows (64bit). If using Mac or Linux as a development environment, responsible for building the environment at own risk.

3. Development enviorment

3.1 Recommended enviorment

To develop the application for ET-L10, it needs the development environment of Android.

Development language	Development platform (Recommended)
Java	Android Studio 3.0 or above
	Android SDK (API level 28 -)
	Google USB driver
	JDK7 or above (Bundled with Android Studio)

Note!

The basic development kit was confirmed to work with the following Android Studio combination. Use the following combination or above version.

However, there is a possibility that something wrong with work if use the latest unconfirmed Android Studio version. If there is something wrong with work, try with the confirmed below combination.

All released versions of Android Studio are available at the following web site. https://developer.android.com/studio/archive

Software	Version
Android Studio	3.5.2
Gradle version (Android Studio)	5.4.1
Android Plugin Version (Android Studio)	3.5.2
Development Kit	ET.1.00.0

The default development language for Android Studio 3.4 or above is Kotlin. Select Java in case of creating a new project.



Configure your project

	Name
	My Application
	Package name
÷	com.example.myapplication
	Save location
	C:¥Users¥casio¥AndroidStudioProjects¥MyApplication
	Language
	Java 💌
	Minimum API level API 27: Android 8.1 (Oreo)
Empty Activity	 Your app will run on approximately 1.1% of devices.

3.2 Construction steps

The followings are the basic steps to construct the development environment. Due to version upgrade of Android Studio, environment may not be constructed by the following procedure. In that case, refer to the procedure described on Google's website etc. and construct the environment.

(1) Android Studio

Download and Install the Android Studio to the PC.

About the version of the Android Studio, refer to the "3.1 Recommended enviorment (p.6)". Refer to the "3.2.1 Android Studio (p.8)" for the construction method.

(2) Android SDK and USB driver

Download the Android SDK and USB driver from Google via Android Studio.

The Android SDK will be installed automatically after downloading.

The USB driver is installed when the device is connected to the PC for the first time. About the version of the Android SDK, refer to the "3.1 Recommended enviorment (p.6)". Refer to the "3.2.2 Android SDK and USB driver (p.12)" for the construction method.

(3) Application development

Develop an application with the installed Android Studio.

To debug an application, connect the PC and the ET-L10 via the ADB (Android Debug Bridge) interface.

Refer to the "3.2.3 Application development (p.15)" for development.

3.2.1 Android Studio

Android Studio can be downloaded from the following site of Google. https://developer.android.com/studio/

Agree to the dialog shown below and start downloading. Executing the downloaded file, follow the instructions to proceed the installation.

Download Android Studio

Before downloading, you must agree to the following terms and conditions.

agree that Google is not responsible for those applications, data, content, or resources. You understand that all data, content or resources which you may access through such third party applications are the sole responsibility of the person from which they originated and that Google is not liable for any loss or damage that you may experience as a result of the use or access of any of those third party applications, data, content, or resources.

7.2 You should be aware the data, content, and resources presented to you through such a third party application may be protected by intellectual property rights which are owned by the providers (or by other persons or companies on their behalf). You may not modify, rent, lease, loan, sell, distribute or create derivative works based on these data, content, or resources (either in whole or in part) unless you have been specifically given permission to do so by the relevant owners.

7.3 You acknowledge that your use of such third party applications, data, content, or resources may be subject to separate terms between you and the relevant third party. In that case, the License Agreement does not affect your legal relationship with these third parties.

8. Using Android APIs

8.1 Google Data APIs

8.1.1 If you use any API to retrieve data from Google, you acknowledge that the data may be protected by intellectual property rights which are owned by Google or those parties that provide the data (or by other persons or companies on their behalf). Your use of any such API may be subject to additional Terms of Service. You may not modify, rent, lease, loan, sell, distribute or create derivative works based on this data (either in whole or in part) unless allowed by the relevant Terms of Service.

8.1.2 If you use any API to retrieve a user's data from Google, you acknowledge and agree that you shall retrieve data only with the user's explicit consent and only when, and for the limited purposes for which, the user has given you permission to do so. If you use the Android Recognition Service API, documented at the following URL: https://developer.android.com/reference/android/speech/RecognitionService, as

I have read and agree with the above terms and conditions

DOWNLOAD ANDROID STUDIO FOR WINDOWS

android-studio-ide-183.5452501-windows.exe

Prompted to specify the installation destination. Change it if necessary.



When the below dialog is displayed, installation of Android Studio is completed.



When start the installed Android Studio first time, select whether to use the previous setting or not. If do not want to use the previous setting, select "Do not import settings".

🚈 Import Android Studio Settings From	×
O Config or installation folder:	
Do not import settings	
ОК	

The Setup Wizard will start, so follow the instructions.

Android Studio Setup Wizard Welcome Android Studio	-		×
Welcome! This wizard will set up your development environment for Android Studio. Additionally, the wizard will help port existing Android apps into Android Studio or create a new Android application project.			
Previ <u>N</u> ext <u>C</u> a	ancel	Finis	sh

If do not have any problem after confirming "Finish".

		-	
Verify Settings			
If you want to review or change any of you Current Settings:	r installation settings, click Previous.		
Setup Type:			
Standard			
SDK Folder: C:¥Users¥casio¥AppData¥Local¥Android	¥Sdk		
Total Download Size: 687 MB			
SDK Components to Download:			
SDK Components to Download: Android Emulator	355 MB		
SDK Components to Download: Android Emulator Android SDK Build-Tools 28.0.3	355 MB 55.7 MB		
SDK Components to Download: Android Emulator Android SDK Build-Tools 28.0.3 Android SDK Platform 28	355 MB 55.7 MB 72.1 MB		

Downloading Components begins. When completed, Android Studio will start up.

Android Studio Setup Wizard		-		×
Downloading Components				
Preparing "Install Intel x86 Emulator Accelerator (HAXM installer) (revision: 7.3.2)"	" .			
Downloading https://dl.google.com/android/repository/extras/intel/haxm-windows_v7_3_2	2.zip			
"Install Intel x86 Emulator Accelerator (HAXM installer) (revision: 7.3.2)" ready.				
Installing Intel x86 Emulator Accelerator (HAXM installer) in C:WiesreWessieWesDeteWieselWedreidWedreidWedrevtreeWistelWerdwere Accelerated Eventtie				
"Install Intel x88 Emulator Accelerator (HAXM installer) (revision: 7.3.2)" complete.	un_manaser			
"Install Intel x86 Emulator Accelerator (HAXM installer) (revision: 7.3.2)" finished.	i.			
Parsing C:¥Users¥casio¥AppData¥Local¥Android¥Sdk¥build-tools¥28.0.3¥package.xml				
Parsing C:¥Users¥casio¥AppData¥Local¥Android¥Sdk¥emulator¥package.xml				
Parsing C:¥Users¥casio¥AppData¥Local¥Android¥Sdk¥extras¥intel¥Hardware_Accelerated_Ex	ixecution_	Manager¥packas	se.xml	
Parsing C:¥Users¥casio¥AppData¥Local¥Android¥Sdk¥patcher¥v4¥package.xml				
Parsing C:¥Users¥casio¥AppData¥Local¥Android¥Sdk¥platform-tools¥package.xml				
Parsing C:¥Users¥casio¥AppData¥Local¥Android¥Sdk¥platforms¥android-28¥package.xml				
Parsing U:#Users#casio#AppData#Local#Android#Sdk#sources#android=28#package.xml				
Android SDK is up to date				
Running Intel® HAXM installer				
Intel HAXM installed successfully!				
	Next	Const	-	

3.2.2 Android SDK and USB driver

Launch the Android Studio, and chose "SDK Manager" from Configure tab.



Select "SDK Platform" tab, then check "Android 9.0 (API Level 28)".

Settings for New Projects				
Qr	Appearance & Behavior > System Settings > Android	SDK		Re
Appearance & Behavior	Manager for the Android SDK and Tools used by Android	Studio		
Appearance	Android SDK Location: C:¥Users¥casio¥AppData¥Local	¥Android¥Sdk	Edit	
Menus and Toolbars	SDK Blatforms			
 System Settings 				
Passwords	Each Android SDK Platform package includes the Andro	id platform and sources per	taining to an API level by	
HTTP Proxy	default. Once installed, Android Studio will automaticall display individual SDK components.	y check for updates. Check	"show package details" to	
Data Sharing	Name	API Level	Revision	Status
bata sharing	Android 10.0 (Q)	29	3	installed
Updates	📥 🗹 Android 9.0 (Pie)	28	6	Not installed
Memory Settings	Android 8.1 (Orco)	27	3	Not installed
	Android 8.0 (Oreo)	26	2	Not installed
Android SDK	Android 7.1.1 (Nougat)	25	3	Not installed
Notifications	Android 7.0 (Nougat)	24	2	Not installed
Ouick Lists	Android 6.0 (Marshmallow)	23	3	Not installed
Quick Lists	Android 5.1 (Lollipop)	22	2	Not installed
Path Variables	Android 5.0 (Lollipop)	21	2	Not installed
Keymap	Android 4.4W (KitKat wear)	20	2	Not installed
	Android 4.4 (KitKat)	19	2	Not installed
Editor	Android 4.3 (Jelly Bean)	17	3	Not installed
Plugins	Android 4.1 (Jelly Bean)	16	5	Not installed
Puild Execution Donlowmont	Android 4.0.3 (IceCreamSandwich)	15	5	Not installed
Build, Execution, Deployment	Android 4.0 (IceCreamSandwich)	14	4	Not installed
Kotlin	Android 3.2 (Honeycomb)	13	1	Not installed
Tools	Android 3.1 (Honeycomb)	12	3	Not installed
10015	Android 3.0 (Honeycomb)	11	2	Not installed
	Android 2.3.3 (Gingerbread)	10	2	Not installed
	Android 2.3 (Gingerbread)	9	2	Not installed
	Android 2.2 (Froyo)	8	3	Not installed
	Android 2.1 (Eclair)	7	3	Not installed
			✓ Hide Obsolete P	ackages 🗌 Show Package Deta
			OK Cance	el Apply Help

Next, select "SDK Tools" tab and check "Google USB Driver" and press [OK].

Settings for New Projects			×
Q.	Appearance & Behavior > System Settings > Android SDK		Reset
Appearance & Behavior	Manager for the Android SDK and Tools used by Android Studio		
Appearance	Android SDK Location: C:¥Users¥casio¥AppData¥Local¥Android¥Sdk	Edit	t
Menus and Toolbars	SDK Platforms SDK Tools SDK Update Sites		
System Settings			
Passwords	Below are the available SDK developer tools. Once installed, Android St Check "show package details" to display available versions of an SDK T	tudio will automatically check for u ool.	pdates.
HTTP Proxy	Name	Version	Status
Data Sharing	Android SDK Build-Tools		Installed
Undates	GPU Debugging tools		Not Installed
Mana California	NDK (Side by side)		Not Installed
Memory Settings			Not Installed
Android SDK	Android Auto API Simulators	1	Not installed
Notifications	Android Auto Desktop Head Unit emulator	1.1	Not installed
Quick Lists	Android Emulator	29.2.1	Installed
	Android SDK Platform-Tools	29.0.5	Installed
Path Variables	Documentation for Android SDK	1	Not installed
Keymap	Google Play APK Expansion library	1	Not installed
Editor	Google Play Instant Development SDK	1.9.0	Not installed
Diversion	Google Play Licensing Library	1	Not installed
Plugins	Googie Play services	49	ivot installed
Build, Execution, Deployment	▲ Google USB Driver	12	Not installed
Kotlin	Intel x86 Emulator Accelerator (HAXM installer)	7.5.4	Installed
▶ Tools			
		✓ Hide Obsolet	e Packages Show Package Details
		ОК Са	incel Apply Help

The following dialog will be displayed, press "OK".



Agree to the "License Agreement", then press "OK" to start installation.

SDK Quickfix Installation	×
License Agree	ment
Licenses	Terms and Conditions
 ▲ Sources for Android 28 ▲ Android SDK Platform 28 ▲ Google USB Driver 	 This is the Android Software Development Kit License Agreement 1. Introduction 1.1 The Android Software Development Kit (referred to in the License Agreement as the "SDK" and specifically including the Android system files, packaged APIs, and Google APIs add-ons) 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. 1.2 "Android" means the Android software stack for devices, as made available under the Android Open Source Project, which is located at the following URL: http://source.android.com/, as updated from time to time. 1.3 A "compatible implementation" means any Android device that (i) complies with the Android Compatibility Definition document, which can be found at the Android compatibility website (http://source.android.com/compatibility) and which may be updated from time to time; and (ii) successfully passes the Android Compatibility Test Suite (CTS). 1.4 "Google" means Google Inc., a Delaware corporation with principal place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043, United States. 2. Accepting the License Agreement 2.1 In order to use the SDK, you must first agree to the License Agreement. You may not use the state of the state o
	O Decline O Accept
	Previous <u>N</u> ext <u>Cancel</u> Finish

The USB driver is stored in "extras\google\usb_driver" under "Android SDK Installation Location".

e.g.) C:\Users\xxx\AppData\Local\Android\Sdk\extras\google\usb_driver (xxx: username of computer)

3.2.3 Application development

To develop / debug the applications with ET-L10, the following preparation is necessary.

- (1) Enable USB debugging (ADB connection) of ET-L10.
- (2) Install ET-L10 USB driver to the PC.

Enabling USB debugging

Since USB debugging is a function for developers, need to activate the Developer options by the following procedure first.

Open [Settings] -> [About phone] and tap "Build number" on the bottom line seven times, [Developer options] is added above [About phone].



Open [Settings] -> [About phone] -> [Developer options] and enable "USB debugging".



	6:19		😫 🚟 🕇 🕕 🗸 🎔 🛿 97%		
	÷		System Q	¢.	
	۲		Languages & input Gboard		
	0		Date & time GMT+09:00 Japan Standard Time		
	٩		Backup On		
Reset options Network, apps, or device can be reset					
	{ } Developer options				
	Ŧ		System updates		
			- • =		
			L		
ſ	6:19		¥ ∰ X 4D• • ♥ û 97'	%	
	6:19 ←		≥ ∰ * • • • ♥ 1 97 Developer options	%	
	6:19 ←		≥ ≥ > </th <th>%</th>	%	
	6:19		Developer options Q On On Debugging	%	
	6:19 ←		Developer options On USB debugging Debug mode when USB is connected	%	
	6:19 ←		Developer options Con Debugging USB debugging Debug mode when USB is connected Diag port debugging Enable Diag port debuggirg Enable Diag port debuggirg Connecting USB.	%	
	6:19		Developer options On Debugging USB debugging Debug mode when USB is connected Diag port debugging Enable Diag port debuggirg Enable	%	
	6:19		Developer options On Debugging Debugging Debug mode when USB is connected Diag port debugging Enable Diag port debugging E	%	
	6:19		Developer options On Debugging Debugging Debug mode when USB is connected Diag port debugging Enable Diag port debuggir Enable Diag port debuggir Enable Diag port debuggir Enable Diag port debuggir Connecting USB. Diag report shortcut Show a button in the power menu for taking a bug report Show a button in the power menu for taking a bug report Scelect mock location app No mock location app set Corce full GNSS measurements Track all GNSS constellations and frequencies with no duty cycling	%	
	6:19		Developer options On Debugging USB debugging Debug mode when USB is connected Diag port debugging Enable Diag port debuggire Enable Diag port debuggire Select mock location app No mock location app set Force full GNSS measurements Track all GNSS constellations and frequencies with no duty cycling	26	

Installing USB driver

Install the USB driver for connecting the ET-L10 and PC with the ADB (Android Debug Bridge) protocol.

Files necessary for installation are downloaded as described in "3.2.2 Android SDK and USB driver (p.12)".

Skip from this procedure to "Debugging on ET-L10 (p.21)" in case of recognizing ET-L10 as ADB on PC.

Connect the ET-L10 to a PC using a USB cable.

Then, open the Device Manager by [Control Panel] -> [Hardware and Sound] -> [Device Manager].

In the Device Manager, "ADB Interface" is displayed as an unknown device as shown below. By right-click the red frame ("Android") in the above figure, displays its properties, and press [Update Driver].



Press "Let me pick from a list of drivers on my computer " at the bottom. In the driver list, with "Show All Devices" is highlighted and press [Next].





When click [Hard Disk...] in the displayed dialog, a dialog box for specifying the location of the driver opens, so click [Browse...] to open the file dialog box.

In the file dialog box, specify the downloaded USB driver in "3.2.2 Android SDK and USB driver (p.12)". (e.g. "extras\ google\ usb_driver\ android_winusb.inf")

Select the device driver you want to install for this hardware. Select the anufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk. Manufacturer (Generic USB Audio) (Generic USB Audio) </th
Select the device driver you want to install for this hardware. Image: Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk. Image: Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk. Image: Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk. Image: Manufacturer (Enhanced Storage Pacinge) Image: Select the weather of the weather of the pacing
Select the device driver you want to install for this hardware. Image: Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk. Image: Manufacturer (Enhanced Storage Device) Model Image: Imag
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk. Manufacturer Model Model Select the manufacturer and model of your hardware device and then click Next. If you have a bisk. Manufacturer Model Model Select the manufacturer and model of your hardware device and then click Next. If you have a bisk. Manufacturer Model Model Select the manufacturer and model of your hardware device and then click Next. If you have a bisk. Identification Model Model Select the manufacturer and model of your hardware device and then click Next. If you have a bisk. Image: Computer in the driver you want to install, click Have Disk. Model Select the manufacturer and model of your hardware device and then click Next. If you have a bisk. Image: Computer in the driver is digitally signed. Have Disk. Image: Computer in the driver is digitally signed. Tell me why driver signing is important Next Cancel Image: Next Image: Next Next Cancel Next Cancel Image: Next Image: Next
Manufacturer Model (Generic USB Audio) (Generic USB Audio)
Manufacturer (Enhanced Storage Device) (Generic US8 Audio) (Generic US8 Hub) (Generic
Manufacturer (Generic US8 Audio) (Generic US8 Hub) (** maded Cf:DEDM #river) This driver is digitally signed. Tell me why driver signing is important Net: Cancel
Manufacturer (Enhanced Storage Device) (Generic USB Audio) (Generic U
(Enhanced Storage Device) Microsoft WPD Enhanced Storage Password Driver (Generic USB Audio) (Generic USB Hub) (Standard C. J. DOM driver) (Generic USB Hub) This driver is digitally signed. Have Disk Tell me why driver signing is important Next Next Cancel
(Connect USB Holds) (Next) (Next) (Next) (Next) (Next) (Next) (Next)
Image: Strandard C / DOM driven) Image: Strandard C / DOM driven) Image: Strandard C / DOM driven) Image: Strandard C / Dom driven) Image: Strandard C / DOM driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C / Dom driven) Image: Strandard C /
I ll me why driver signing is important Have Disk Next Cancel
Iell me why driver signing is important Next Cancel
File name: addaid_winuth Open Files of type: Fully information ("inf) Cancel
Next Cancel
Install From Disk
Inset the manifacture's installation disk and then Image
make sure that the correct drive is selected below.
Cancel
Convingent and service files from:
L. Lusers icasio veptuala Local ventrolo 4847 estra + Browse

The following driver selection screen will appear. Select "Android Composite ADB Interface" and press [Next].

Answer "Yes" to "Driver Update Warning" and press "Install" of "Windows Security" dialog.

	Update Driver Warning
Update Driver Software - ADB Interface Select the device driver you want to install for this hardware. Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.	Installing this device driver is not recommended because Windows cannot verify that it is compatible with your hardware. If the driver is not compatible, your hardware will not work correctly and your computer might become unstable or stop working completely. Do you want to continue installing this driver?
	Yes No
Model	Windows Security
Android Rootlavder Interface Android Composite ADB Interface This driver has an Authenticode(tm) signature. Have Disk Tell mouths driver cipring is important	Would you like to install this device software? Name: Google, Inc. Publisher: Google Inc
Lei me wny oriver signing is important	Always trust software from "Google Inc". Install Don't Install Vou should only install driver software from publishers you trust. How can I decide which device software is safe to install?

By the above, the installation of the USB driver for ADB protocol was completed. Press "OK" when the follow dialog is shown on ET-L10.



Debugging on ET-L10

Select "Run" -> "Debug 'app'" on Android Studio after connected PC with ET-L10.



When the follow dialog is shown, select "CASIO COMPUTER CO., LTD. ET-L10" from "Available Devices" and press "Run". Start to debug an application on ET-L10.

🛎 Select D	eployment Targets	×			
Available de	Available devices				
Туре	Device name				
✓ □,	CASIO COMPUTER CO., LTD. ET-L10				
	Run Cancel				