

Quick Start

1. File structure

Android:

\android\ 	
\app\ 	apk of demo
\EloThermal\ 	source code of demo
\lib\ 	library of SDK

Windows:

\windows\ 	
\app\ 	exe of demo
\drivers\ 	driver for IR camera
\EloThermal\ 	source code of demo
\lib\ 	library of SDK

Linux:

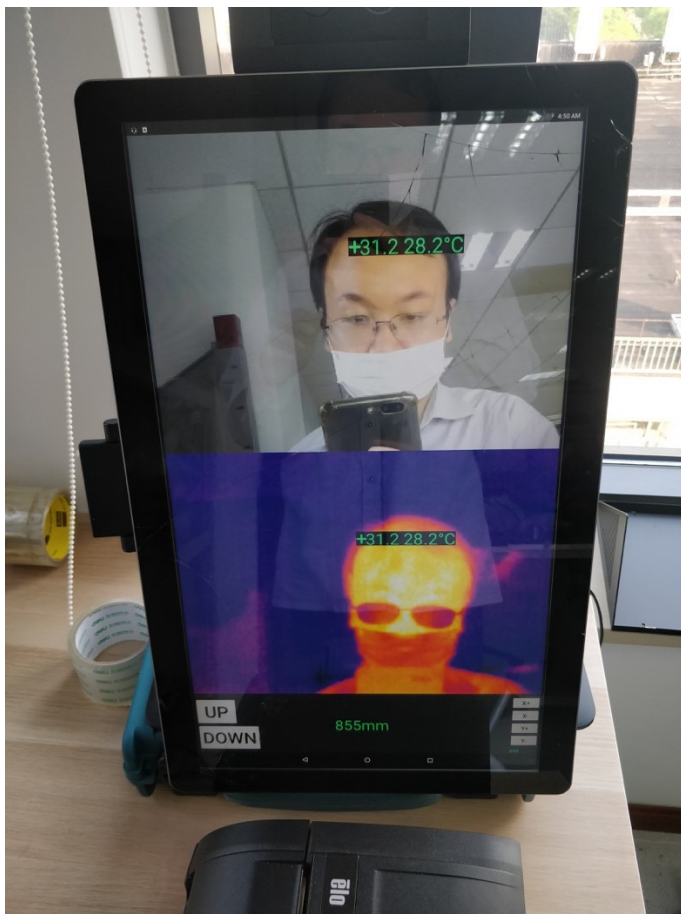
\linux\ 	
\app\ 	binary of demo
\EloThermal\ 	source code of demo
\lib\ 	library of SDK

2. How to work with Demo app?

2.1 Android

- a. Camera calibration: Calibration of cameras are required before using.

Run TestActivity:



Press X+/X-/Y+/Y- button on the right bottom of activity to make two views of camera matching.

- b. ExpertActivity reveals how to use API in expert mode.
- c. SmartActivity reveals how to use API in smart mode.

2.2 Windows

a. Download and install Microsoft support library.

1. Visual Studio 2019 VC Redistribution x64
2. .NET Framework 4.6.1+
3. Install driver

b. Camera calibration: Calibration of cameras are required before using.

Run EloThermal.exe:



Press X+/X-/Y+/Y- button on the right bottom of activity to make two views of camera matching.

c. Expert mode:

Click "Expert.Ink" or run exe with argument "-expert" Expert mode reveals how to use API in expert mode.

d. Smart mode:

Click "Smart.Ink" or run exe with argument "-smart" Smart mode reveals how to use API in smart mode.

2.3 Linux

a. Config environment

1. Copy library

copy lib to system path

```
sudo cp lib/* /usr/lib/
```

2. install dependencies

install qt5gui

```
sudo apt update
```

```
sudo apt install libqt5gui5
```

check whether dependencies are met

```
ldd qtDemo
```

3. Set USB device privilege

grant privilege to USB devices

edit "/lib/udev/rules.d/50-udev-default.rules", then reboot

modify before:

```
SUBSYSTEM=="usb", ENV{DEVTYPE}=="usb_device", MODE="0664"
```

modify after:

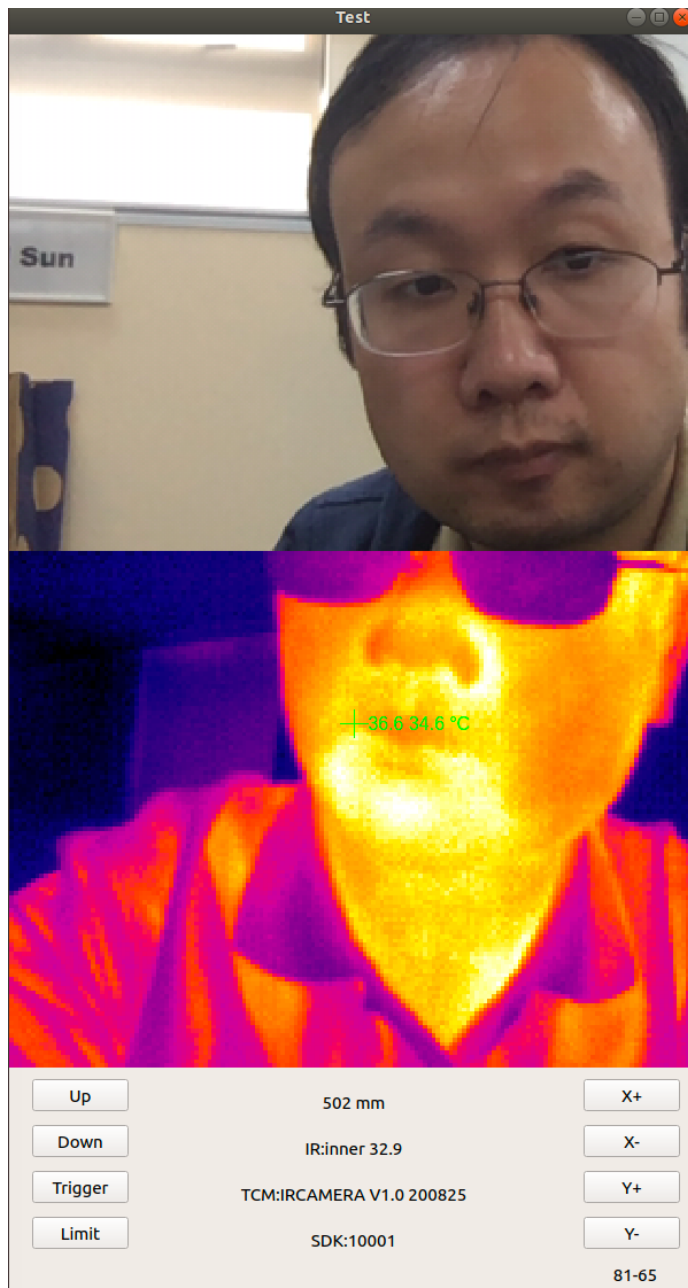
```
SUBSYSTEM=="usb", ENV{DEVTYPE}=="usb_device", MODE="0666"
```

add line:

```
KERNEL=="ttyUSB*", MODE="0666"
```

b. Camera calibration: Calibration of cameras are required before using.

Run qtDemo: ./qtDemo



Press X+/X-/Y+/Y- button on the right bottom of activity to make two views of camera matching.

c. Expert mode:

Run qtDemo with argument “-expert” Expert mode reveals how to use API in expert mode.

d. Smart mode:

Run qtDemo with argument “-smart” Smart mode reveals how to use API in smart mode.