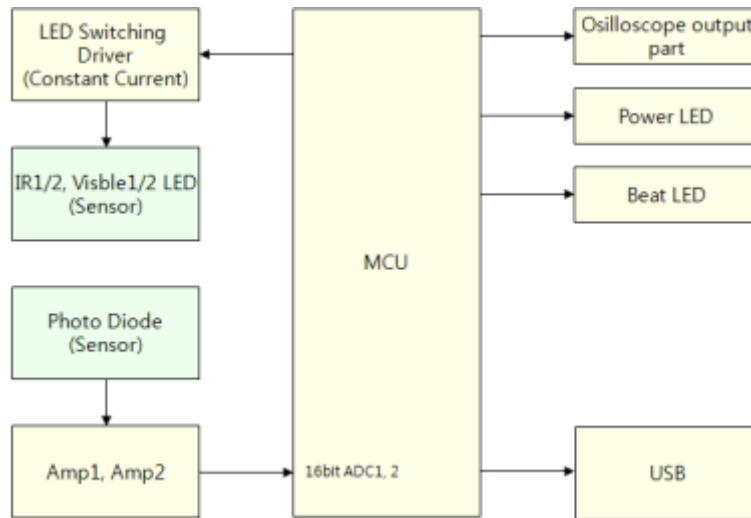


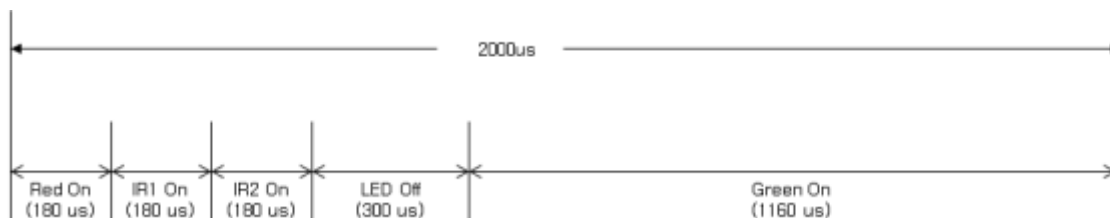
1. HW

A. Intro



Measure the signals of each LEDs with the duty cycle 500Hz. The measured signals are amplified through Amp1 or Amp2. Amp1 is for IR1(905nm), IR2(810nm) and V1(660nm), Amp2 is for V2(570nm).

B. LED Switching Timing



2. SW

A. Install

1. Please download the FLPPG_SW.zip from web site <http://www.apmkr.com/>

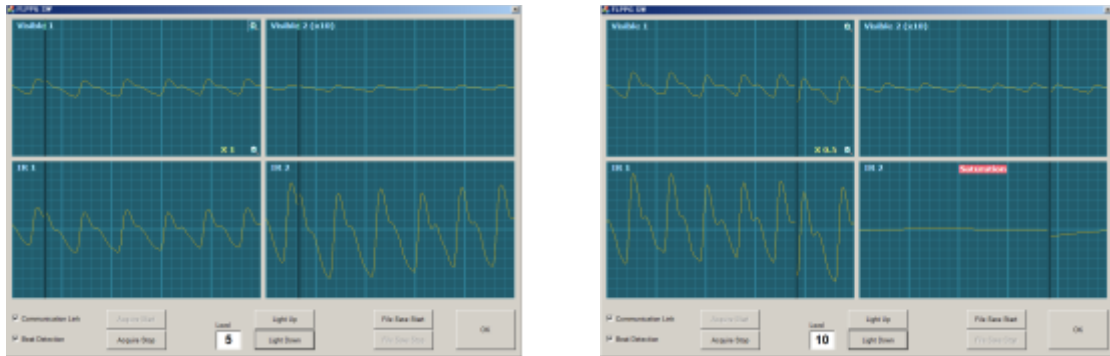


FLPPG_SW.zip

http://www.apmkr.com/bio-device/FLPPG_SW.zip

2. You have to install USB driver unless your PC never installed before. The driver will be installed if you execute "CDM v2.12.10 WHQL Certified" file in the USB driver holder. If your PC has a USB driver already, then no need to install again.
3. The program will run if you copy anywhere and execute the holder "FLPPG SW".

B. Display



Left side is normal measuring case, Right low shows that IR2(801nm) was saturated.

- Saturation means the amplified signal was too big for proper data processing.

Solution is low down the level. In case of V2(Visible2 570nm Green) may saturate by ambient lighting if your finger does not contact properly, so control the level only when the measurement was correctly.

C. Save File

1. The saved file is saved as .txt, so Excel or MATLAB program is available.
2. DC, AC curves are shown by MATLAB if you use "LoadFile.m" in the "Save" holder.
3. The 10 columns in a txt file shows in a low each V1_DC, V1_AC, V2_DC, V2_AC, I1_DC, I1_AC, I2_DC, I2_AC, off1(V1,I1,I2 LEDs off), off2(V2 LED off)

