

## Report for Lecture-Capturing Equipment (CV910 and VGA2USB)

### ● Making Movies of Class With AVerMedia CV910

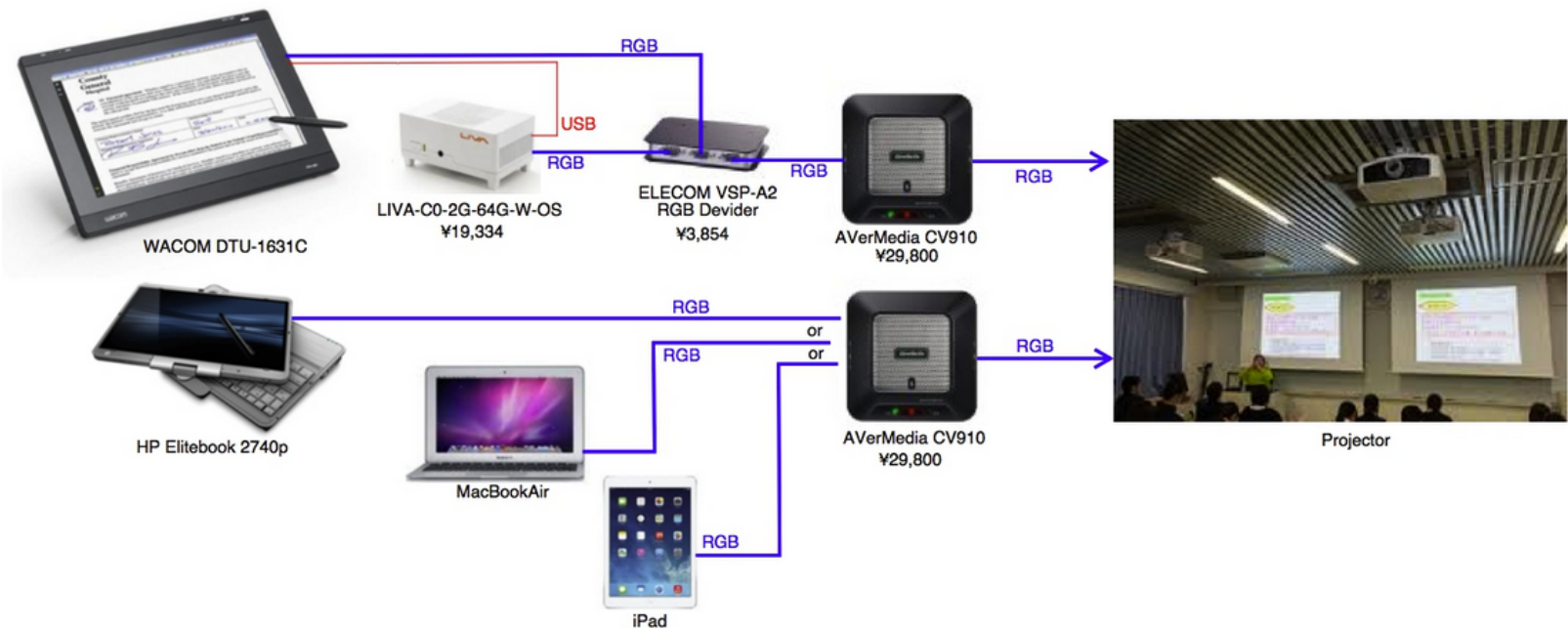
AVerMedia CV910 makes movies by capturing projection from PC, which can very easily be done by connecting it between PC and projector. The movies recorded simultaneously during class-lecturing are stored into SD memory card with sounds by built-in microphone. Though the microphone is sufficiently good in terms of quality and sensitivity, it is possible to use an external microphone if needed. CV910 needs a 5V DC power supply and the corresponding AC-DV adaptor is included. TS-type files recorded in SD card can be converted by free-software to mp4-type files. One hour-recording can be done on around 1G memory. CV910 can deal with both RGB (D-sub 15) and HDMI signals.

The figure below shows several ways that I use CV910 in actual class-teaching. When fine writing on a PC screen is desired, WACOM LCD tablet (DTU-1631C) as a monitor and LIVA as a small-size PC are used and connected to CV910 through RGB signal-splitter. In class,

I give hard copies of PowerPoint having blanks to students and do teaching using PowerPoint with writing and drawing on tablet screen. These are recorded by CV910 to make movie with sounds. When writing and drawing on a screen are not so much, I use simply PC (or iPad) with connection to CV910 and projector.

CV910 is an equipment that I recommend in terms of reasonable cost-performance and easiness to use.

System Using CV910



- **Making Movies of Class With Epiphan VGA2USB**

VGA2USB (Epiphan) converts RGB output to USB signals, which can be projected in window of specific software on another PC screen and can be captured as a movie. Since VGA2USB itself has no microphone, sounds should be taken by a microphone of a capturing PC. Although Windows capturing software has a facility of sound recording, note that a software for Macintosh has no.

Similarly to CV910, VGA2USB can deal with RGB signals derived from PC (Win, Max, Linux) and iPad etc, but is incompatible for HDMI. Since capture speed is not so fast, it is not necessarily efficient to take movie with quick move. VGA2USB can not be use as a RGB signal-through-type device. Therefore, RGB output from a PC is divided by a splitter component to two outputs. One is connected to VGA2USB and another is connected to a projector equipment.

Though VGA2USB is relatively low cost-performance than CV910, it may be benefit that contents during recording can be seen on a PC for capturing. It is another benefit that VGA2USB runs by USB-power supply but not require an additional supply.

When you use other capturing software other than that for VGA2USB, you can make movies capturing simultaneously VGA2USB window and other windows on the same frame.

### System Using VGA2USB

