uBoard Hardware Installation Guide (V2.2)

All contents of this publication are subject to change.

2011.01

INDEX

1. Verify Components before Installation.

⚠ Before hardware installation, firstly, please check if components listed below are included in the package. If you find missed one, please contact the store you purchased.
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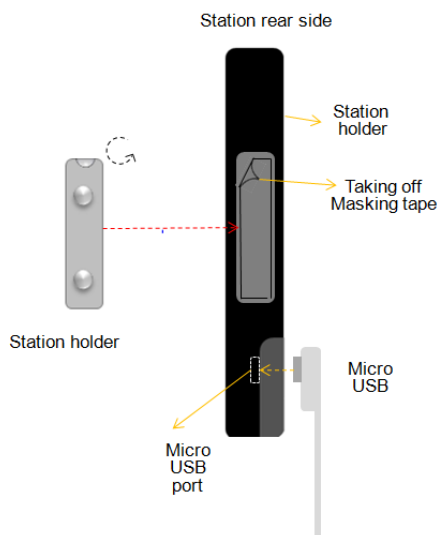|	Item	Quantity	Remarks
1	Station	1	
2	Digital Pen	1	
3	Active Link	1	Including Calibration & Board SW
4	USB Cable	1	5M
5	Recharging battery Cable	1	1M
6	Station Holder	4	
7	Pen tip	5	

2. Station Installation.

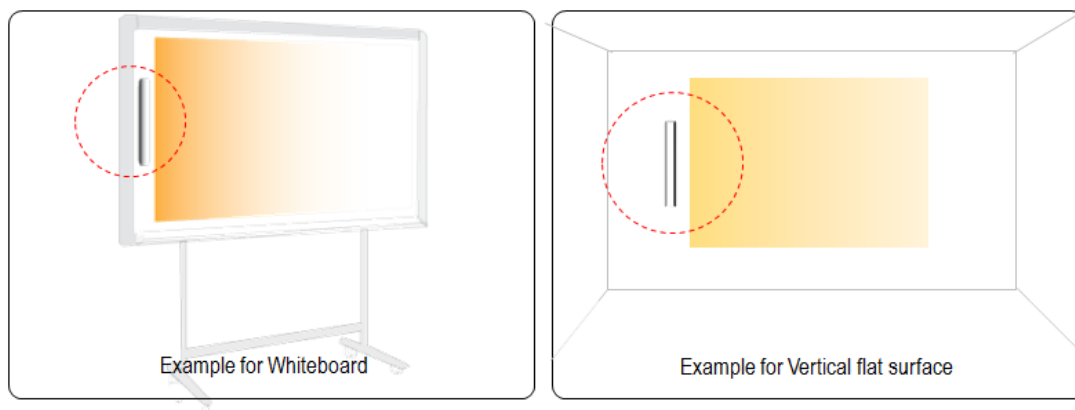### 2.1 Connecting USB Cables properly.

2.1.1 Connect Micro USB connector to Micro USB port of Station.

Connects USB cable to micro USB port of uBoard station and adhere station holder to whiteboard or flat surface.

① Attach Station holder to the backside of station. As magnet is included in the back side of station, it can be easily attached.
② Connect micro USB connector of USB cable to micro USB port of Station.
③ Take off masking tape of station holder.

Station rear side

Station holder

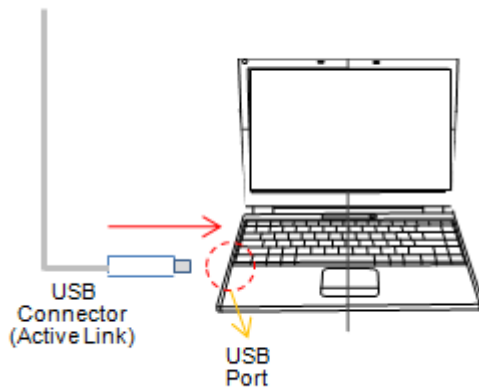Taking off Masking tape

Station holder

Micro USB

Micro USB port

④ Place Station in the middle of whiteboard or working area and press Station to adhere station holder.
⑤ Make sure station position with screen without tilting vertically.

Example for Whiteboard   Example for Vertical flat surface
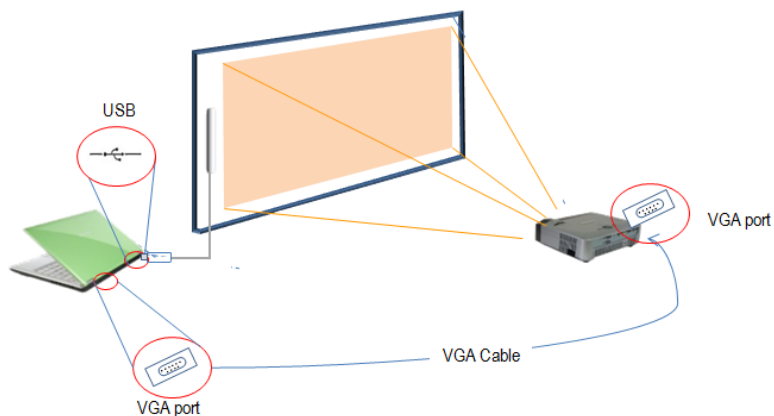
2.1.2 Connect USB connector to USB port of Computer.

Connect USB connector, the other end of USB cable, to the USB port on the computer.
If cable length is not enough, please use USB extension cable.

USB
Connector
(Active Link)

USB
Port

2.2 Connecting VGA cable properly.

After connecting USB cable between uBoard station and computer, connect VGA cable between Beam project and the computer. It is the last step for hardware installation. When this step is completed successfully, you are ready to use uBoard in hardware side.

However, in order to use uBoard, Software installation is additionally required.
As for SW installation, Please refer to the software installation guide.

NOTICE:

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Notice	
1	Avoid using this device in the environment that air is blown directly to receiver from air conditioner or heater.
2	Place Station in the middle of whiteboard or working area in the left side if possible, and make sure station position with screen without tilting vertically
3	Position station to keep 2 cm at the least away from left vertical line of projected screen
4	Recommend to use USB repeater in case that USB extension cable is exceeding 10m.

3. Digital pen

Digital pen for uBoard is ideally designed to support upto120 inches as effective working area. It adopted many key features to maximize user convenience.

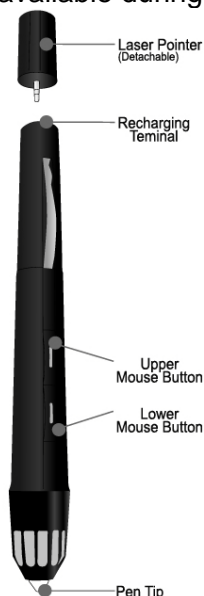### 3.1 Key features

3.1.1 Button functions

uBoard digital pen has 2 buttons executing different functions depending working environment.

    a. In MINT Interactive mode (Board software).
       - Low button (close to pen tip):   executes the right button of mouse.
       - Upper button: switching eraser mode to writing mode or vice versa.

    b. In Window mode.

- Low button: executes the right button of mouse.
- Upper button: executes window Exit when to push it during a couple of seconds. (This function is only available during MINT control is active.)

3.2 Digital Pen operation

uBoard digital pen is using rechargeable battery to avoid environment contamination with maximizing user convenience.

   a. Recharging time & continuous operating time: It takes about 1 hour for full recharge and lasts 20 hours for continuous operating time.

   b. Automatic power save function: When the pen is idle for 10 seconds since last click, it will automatically enter sleep mode to save battery. Pen can be in active mode again by pressing any button or click pen tip.

   c. 2 level battery monitoring indicator: Let user know current battery status by turning on red LED light for low battery.
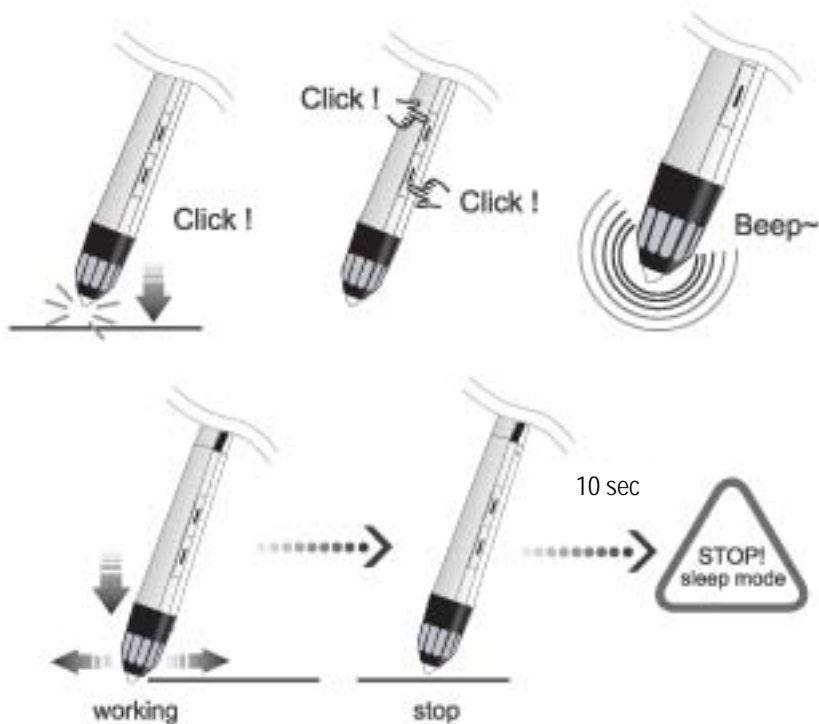
3.2.1 The way to recharge digital pen

In order to recharge digital pen safely, please use recharging cable enclosed in the package. Connect the recharging terminal of the cable to the recharging hole at the end of pen body and plug USB knob to computer.

3.2.2 How to check the pen status.

Press pen tip or pen button, then you can hear low beep sound generated by the pen when it works properly.

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3.2.3 Pen tip change

When pen tip is worn-out, it can be replaced with new one.

[To remove]   Turn pen-tip to right or left direction by 90 degrees and then pull it out carefully
[To insert]   Insert pen-tip into pen cage and turn it to right or left direction by 90 degrees to lock it.

⚠   Notice: Possible to overheat, explode, fire or etc.
- Do not expose to heat(130°F), imapct, chops or etc
- Careful of inhaled or bited case by children or pets
- Prohivits to insert metals to charger connector or sink in water.

FCC statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

● Reorient or relocate the receiving antenna.
● Increase the separation between the equipment and receiver.
● Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example-use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference. and
(2) This device must accept any interference received, including interference that may cause undesired operation.