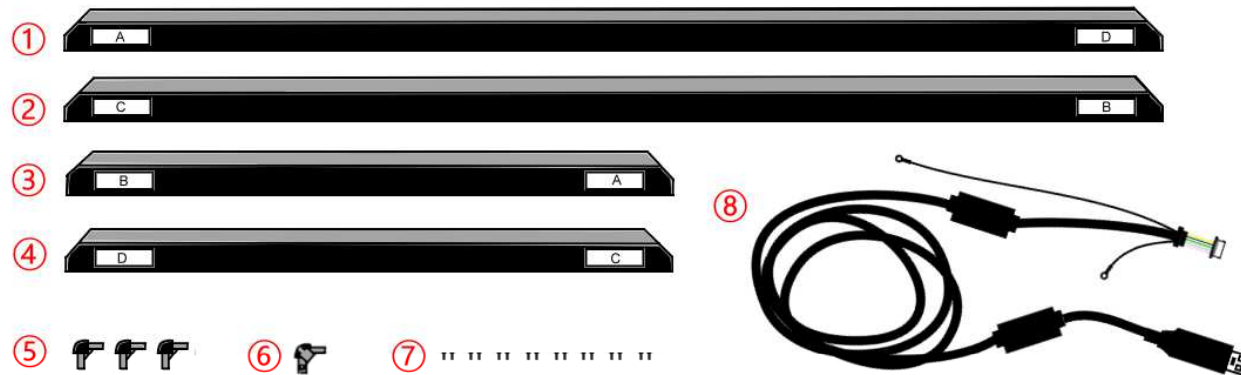# BOXLIGHT MimioFrame
# Setup SOP
## 2022, 08, 17

# Table of contents
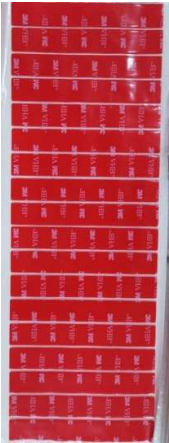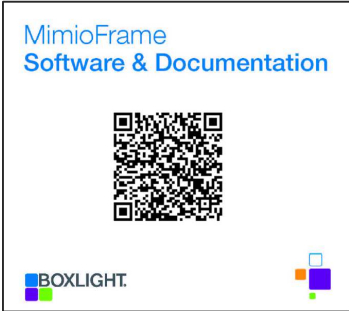
- Parts List
- Accessories List
- Parts Description
- Assembly Teaching
- Calibration
- Troubleshooting

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# Parts List

| Parts | Description | Parts | Description |
|-------|-------------|-------|-------------|
| ① | Frame edge ( AD segment ) | ⑤ | Connection Element |
| ② | Frame edge ( CB segment ) | ⑥ | Connection Element (Outlet) |
| ③ | Frame edge ( BA segment ) | ⑦ | Fixing Screw |
| ④ | Frame edge ( DC segment ) | ⑧ | USB control cable |

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# Accessories List

| Parts | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Description | Dummy Pen | USB2.0 Cable 3M x 1 | Double-sided Tapes | Spare Cable | Download card |
| Photos |  |  |  |  | MimioFrame Software & Documentation |

# Parts Description - AD segment

The PCB board in the edge can be pulled out and pushed in

The PCB board in the edge can be pulled out and pushed in

**Side Edge**

**Front Edge**

① ② ③ ④ ⑤
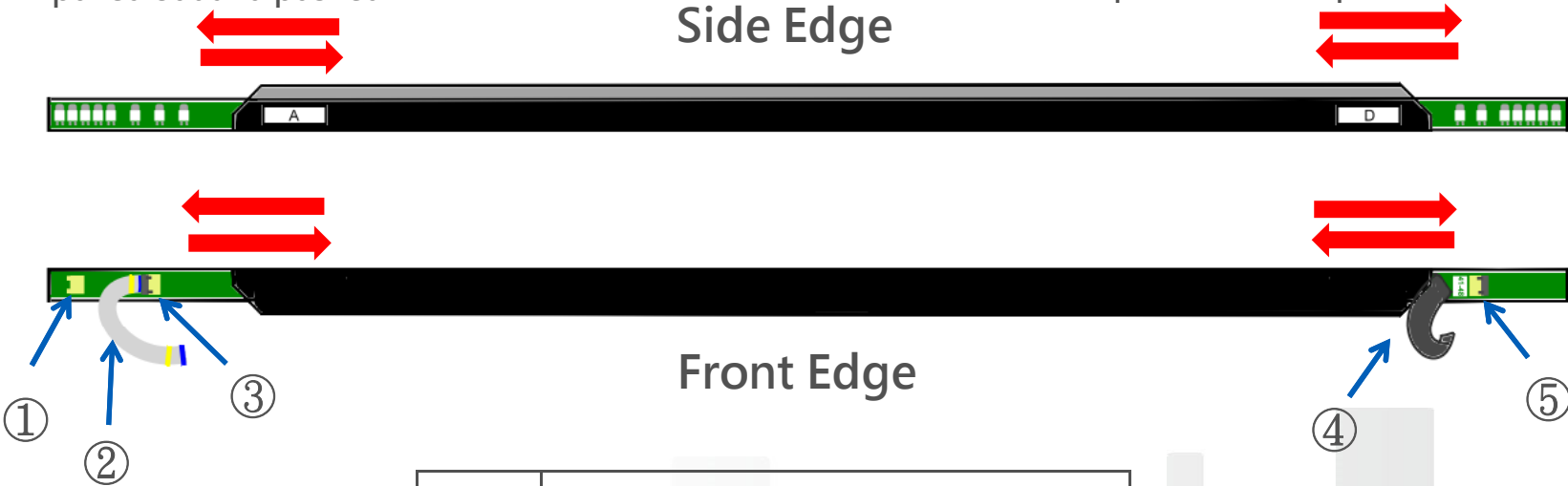
| Parts | Description |
|-------|-------------|
| ① | USB control cable socket |
| ② | PCB connection cable |
| ③ | PCB connection cable socket |
| ④ | Insulation protective tape |
| ⑤ | PCB connection cable socket |

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# Parts Description - BA segment

The PCB board in the edge can be pulled out and pushed in
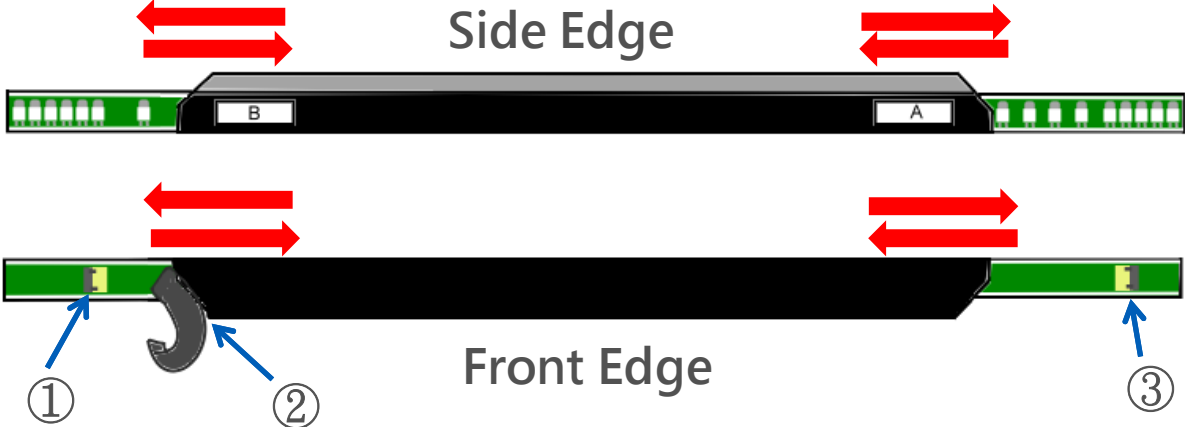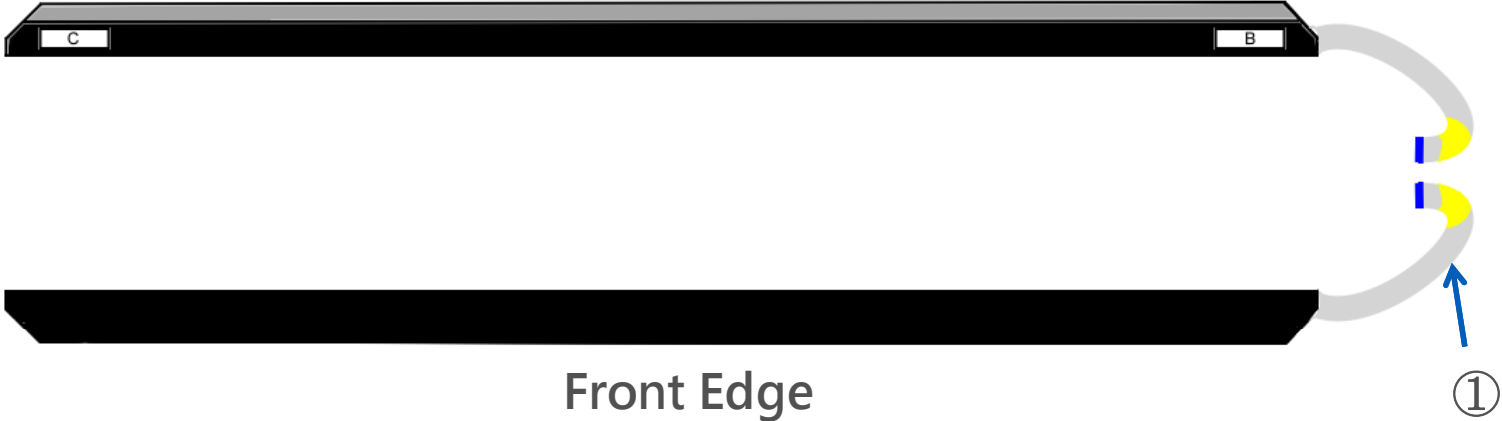
The PCB board in the edge can be pulled out and pushed in

**Side Edge**

B

A

**Front Edge**

① ② ③

| Parts | Description |
|-------|-------------|
| ① | PCB connection cable socket |
| ② | Insulation protective tape |
| ③ | PCB connection cable socket |

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# Parts Description - CB segment

**Side Edge**



**Front Edge**

①

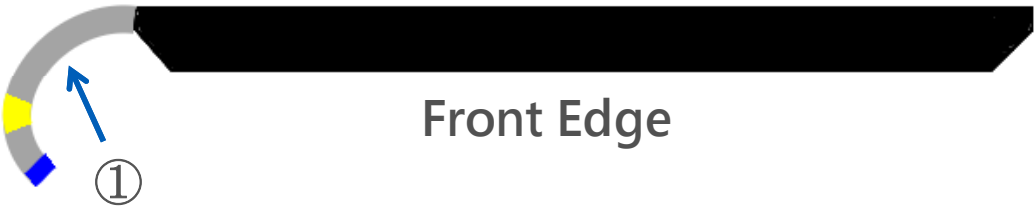| Parts | Description |
|-------|-------------|
| ① | PCB connection cable |

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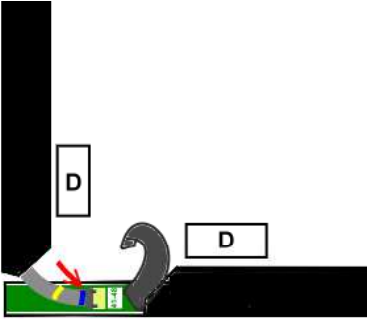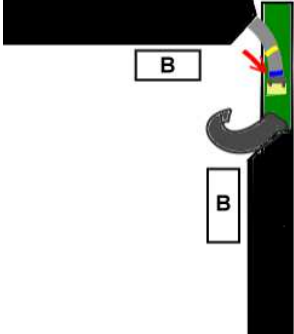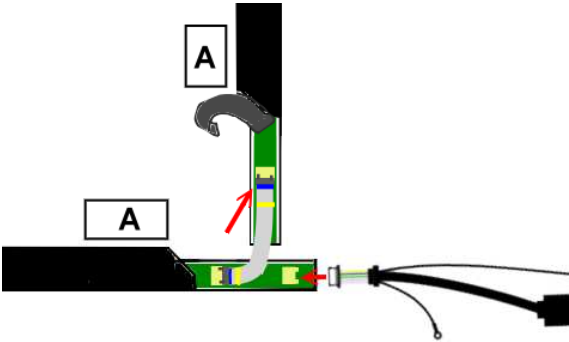
# Parts Description - DC segment

**Side Edge**

| D | | | C |

**Front Edge**

①

| Parts | Description |
|-------|-------------|
| ① | PCB connection cable |

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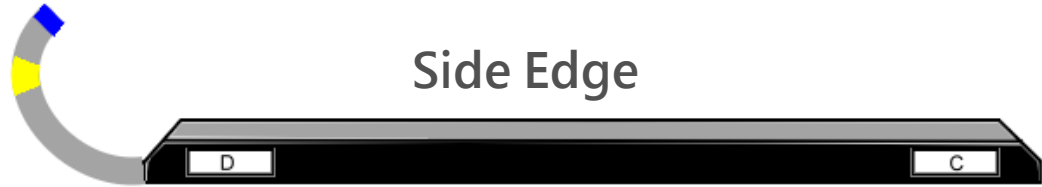
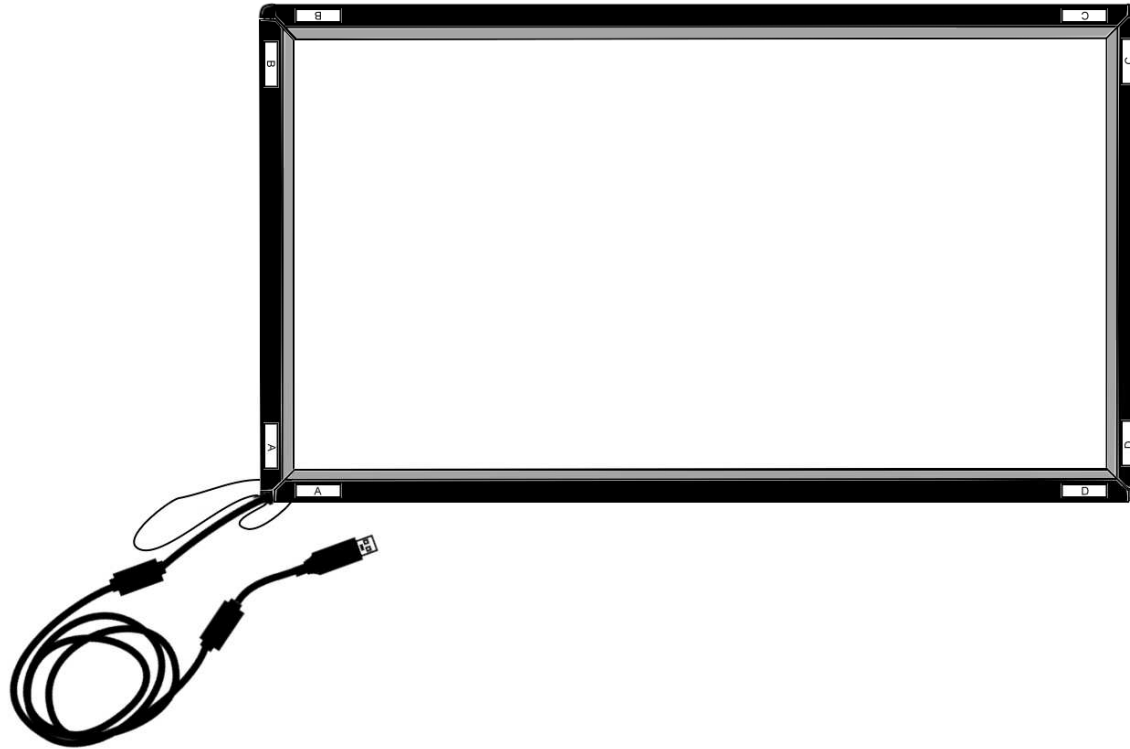# Assembly Teaching

| Sequence 1 | Sequence 2 | Sequence 3 |
|---|---|---|
|  |  |  |
| Connect the D end of the side strip to the PCB on both sides with a cable | Connect the B end of the side strip to the PCB on both sides with a cable | 1. Connect the B end of the side strip to the PCB on both sides with a cable<br>2. At the same time, connect the USB control cable to the connection socket |

# Assembly Teaching
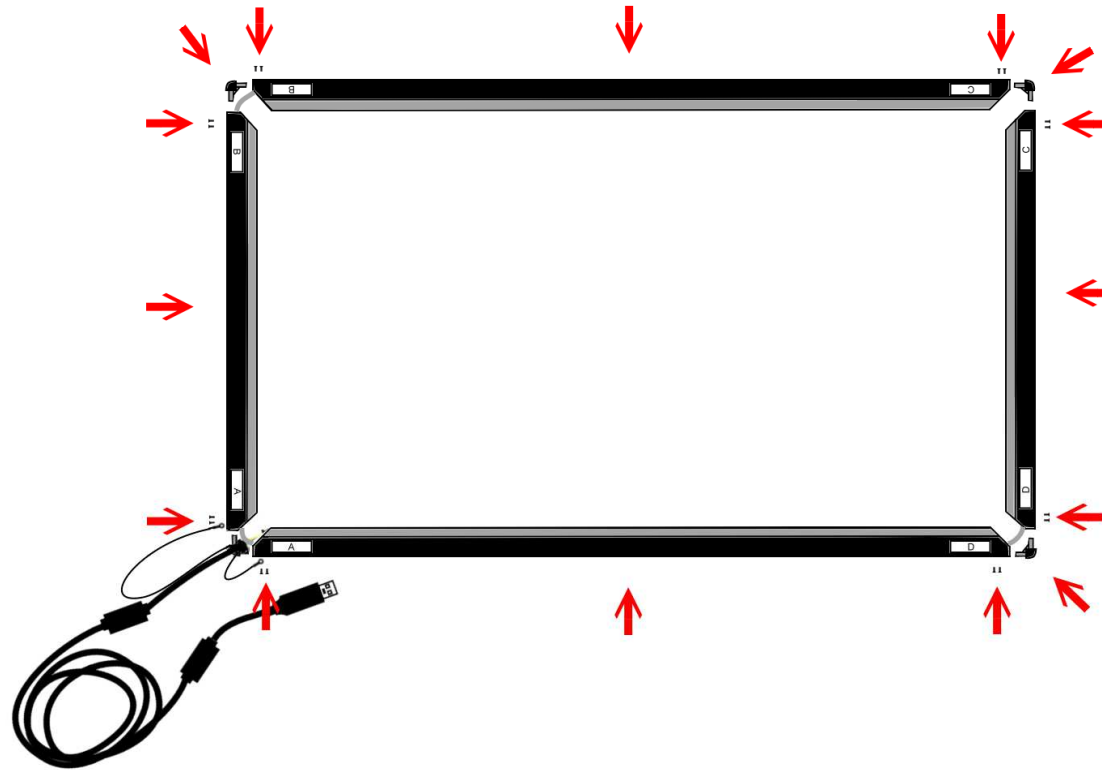


❖ Lock the connection element and fixing screws into the connecting edge according to the picture.

# Assembly Teaching



❖ Schematic diagram of Mimio Frame assembly completed

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# Assembly Teaching
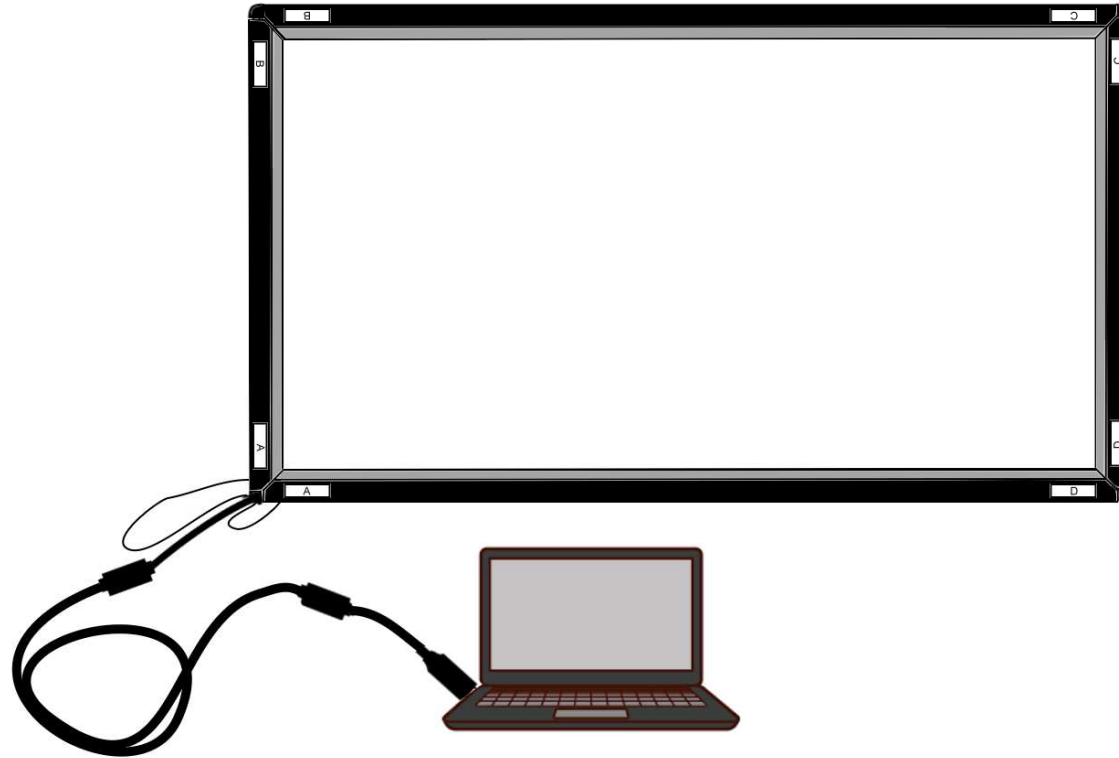


❖ Connect the Mimio Frame to the NB (computer) and perform Signal Testing to confirm that the assembly is error-free

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# Start up MimioFrame Calibration Tool
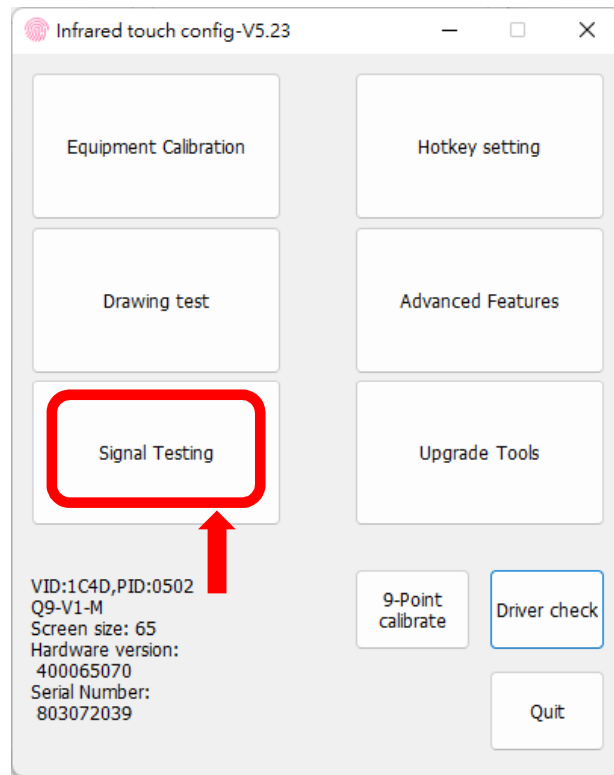
📁 Resources

📄 InfraRed_SwConfig

🔳 InfraRedTouch

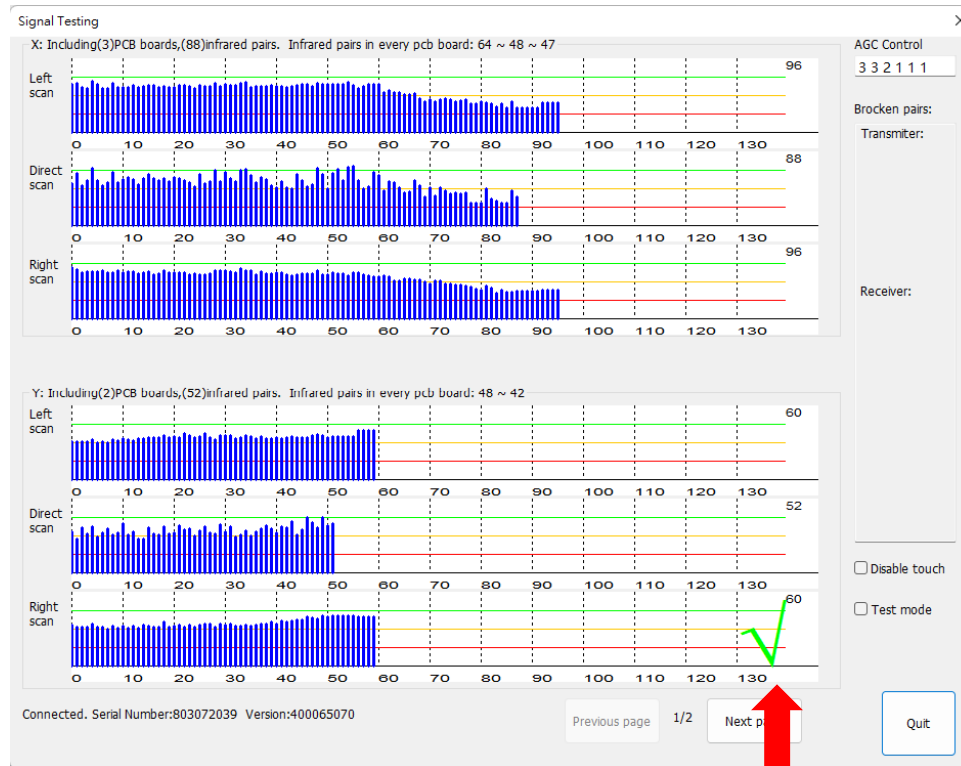📄 multit⬆ch_hw_port.dll

📄 multit⬆ch_hw_service.dll

- ❖ 1. The current tool version is V5.23.
- ❖ 2. After MimioFrame is assembled, connect the touch frame USB cable to the computer.
- ❖ 3. Execute the IndraRed Touch file without installation on the computer
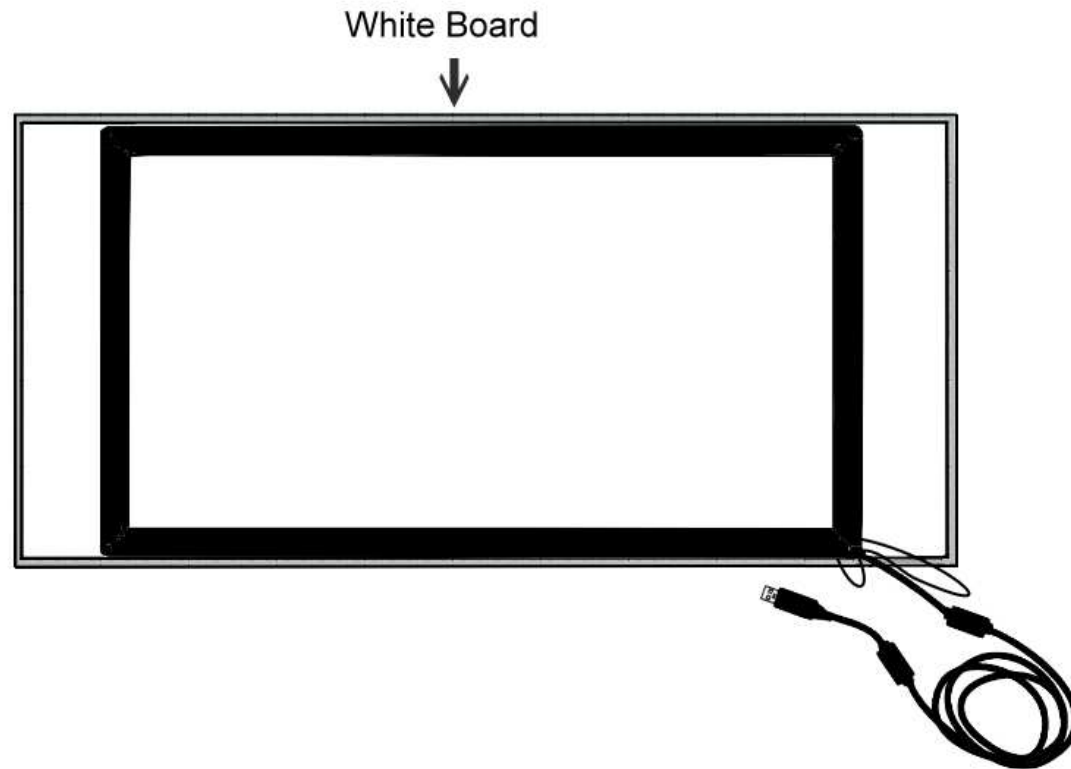
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# Signal Testing



❖ Before installing to the board, perform Signal Testing first to confirm whether the touch frame wiring is normal
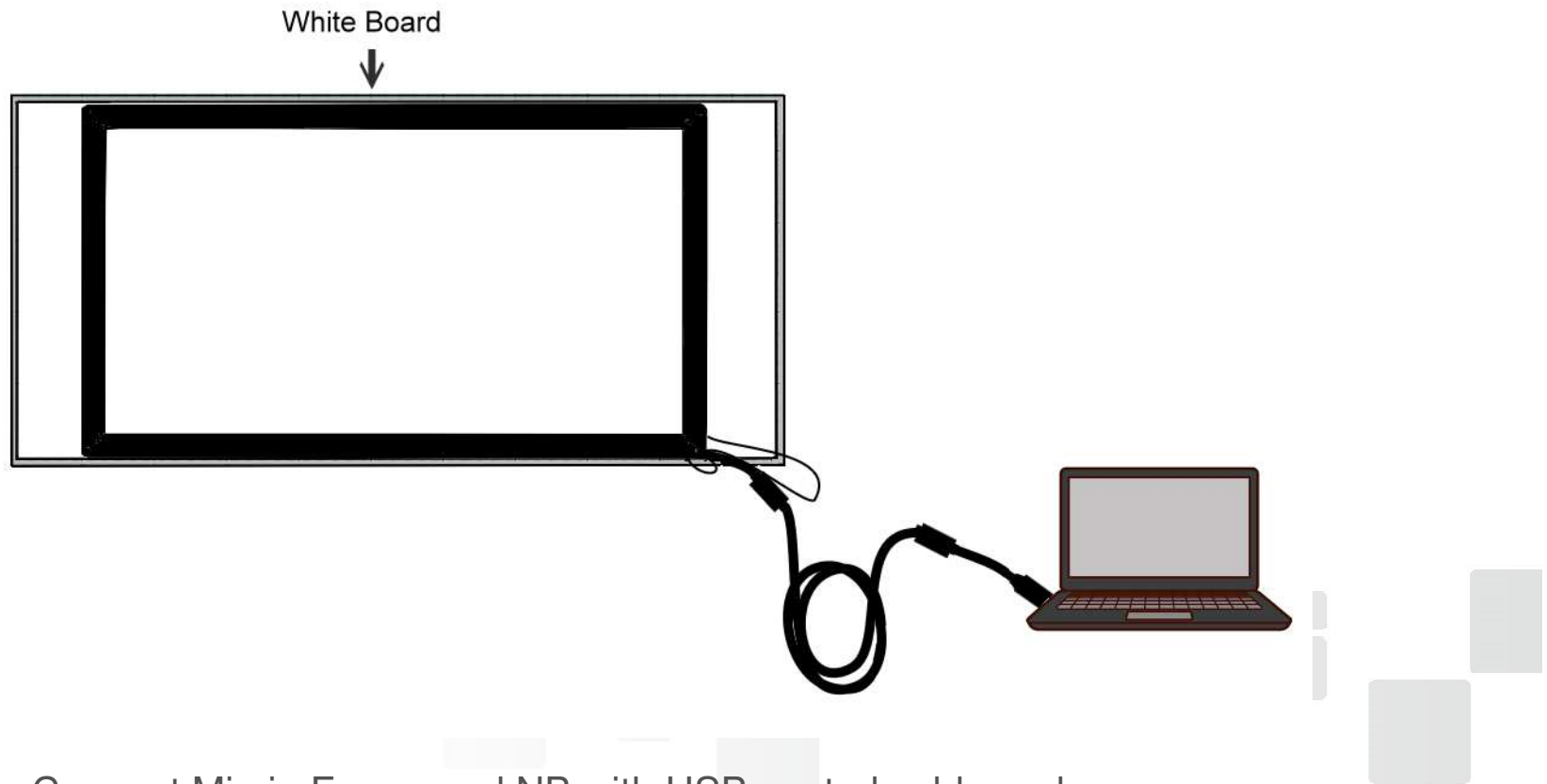
# Signal Testing



♦ There is no error message in the Signal Testing (green tick  icon), indicating that the detection wiring is normal.

# Assembly Teaching

White Board

❖ Attach the Mimio Frame to the whiteboard with double-sided tape

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# Calibration



White Board

❖ Connect Mimio Frame and NB with USB control cable and execute 9-point calibration

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# Start up MimioFrame Calibration Tool
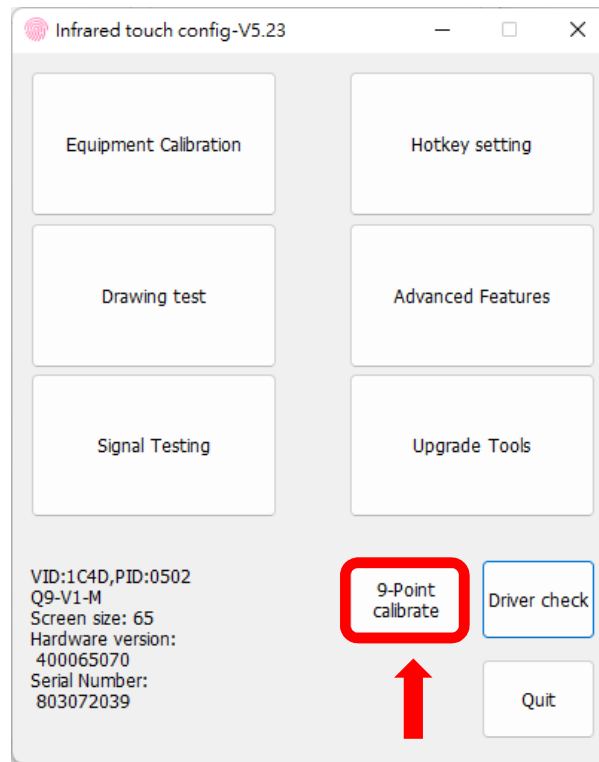
📁 Resources

🗎 InfraRed_SwConfig

〔 InfraRedTouch 〕

🗎 multitouch_hw_port.dll

🗎 multitouch_hw_service.dll

- ❖ 1. The current tool version is V5.23.
- ❖ 2. After MimioFrame is assembled, connect the touch frame USB cable to the computer.
- ❖ 3. Execute the IndraRed Touch file without installation on the computer

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# 9-Point Calibrate



1. After installing MimioFrame on the board, connect the touch frame USB to the computer,

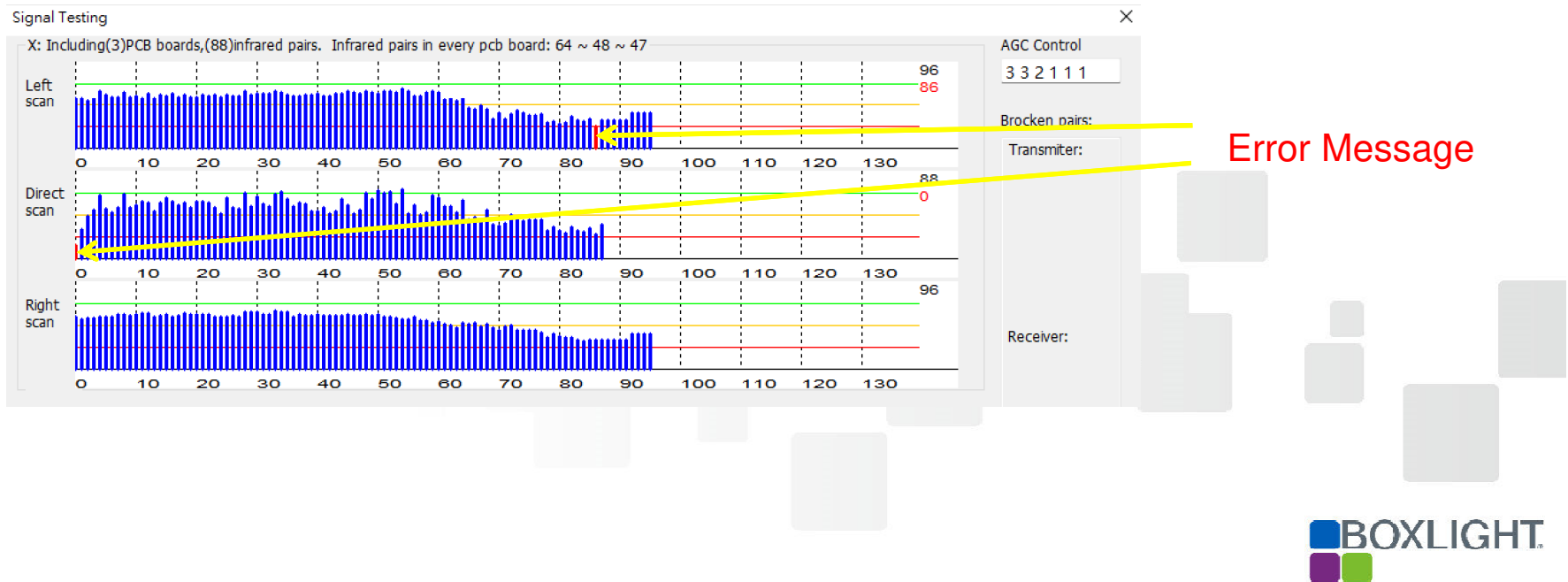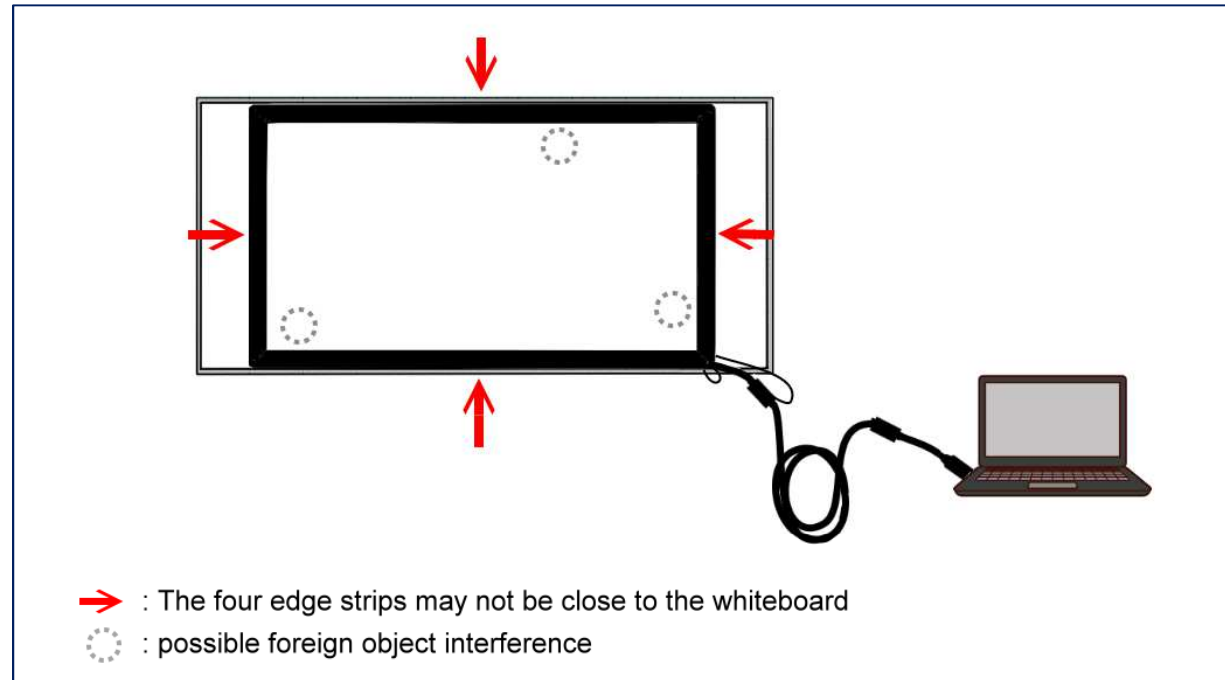2. Perform 9-point calibrate for touch positioning

# 9-Point Calibrate
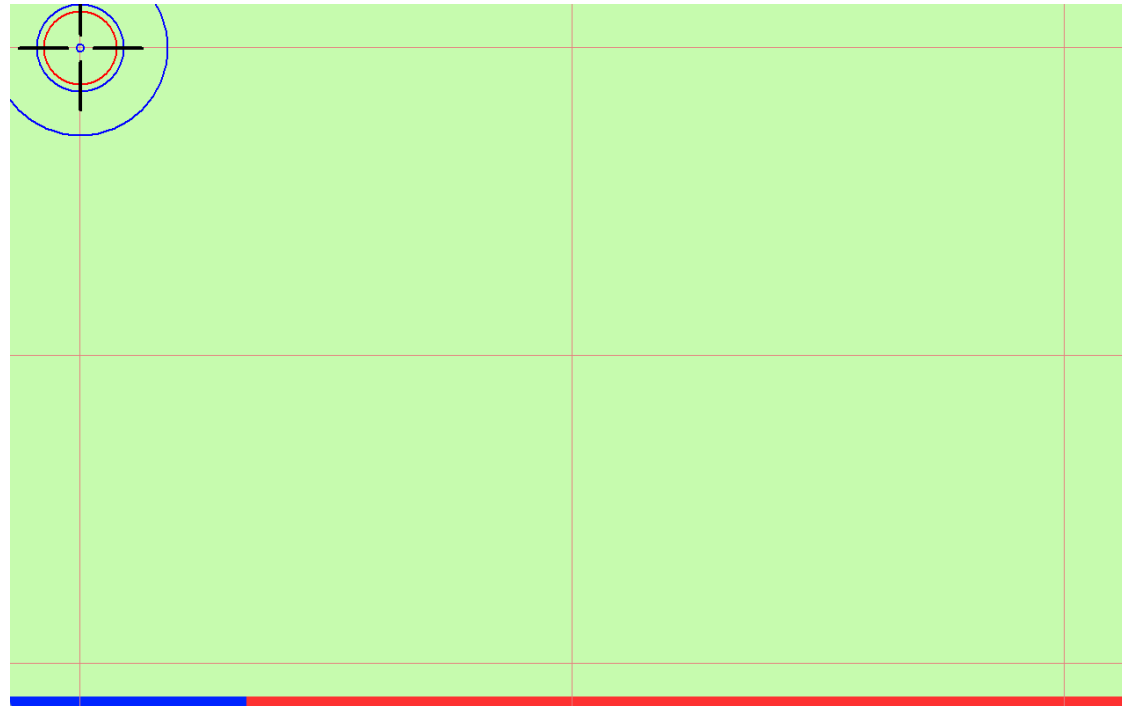


❖ 1. Enter the 9-point calibrate function page, and click the 9 positioning points in sequence.

❖ 2. After the 9-point calibrate is completed, it can be used normally.

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# Troubleshooting

❖ When the finger does not touch the board, the signal test infrared scan shows an error message

Error message 1



Error Message

→ : The four edge strips may not be close to the whiteboard

○ : possible foreign object interference

❖ **Possible reasons :**

1. The frame is falling off or not sticking to the flat white board.

2. The infrared edge of the frame is blocked by foreign object.
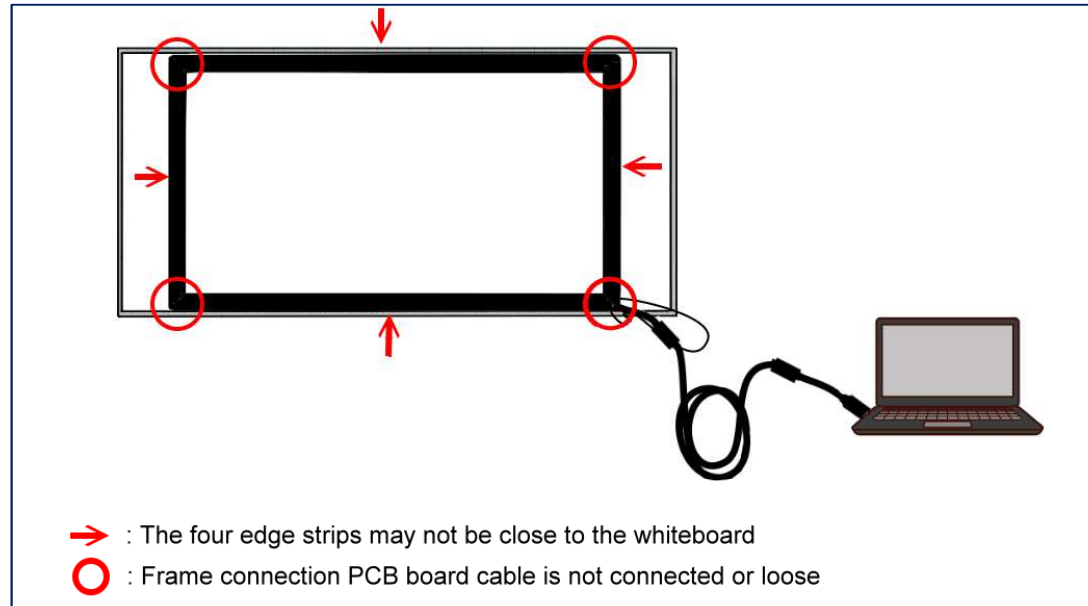
❖ **Objects Solution :**

Fix the edge strip close to the white board, and remove the infrared blocking edge strip.

# Troubleshooting

❖ When the finger does not touch the board, the signal test infrared scan shows an error message

Error message 2

: The four edge strips may not be close to the whiteboard

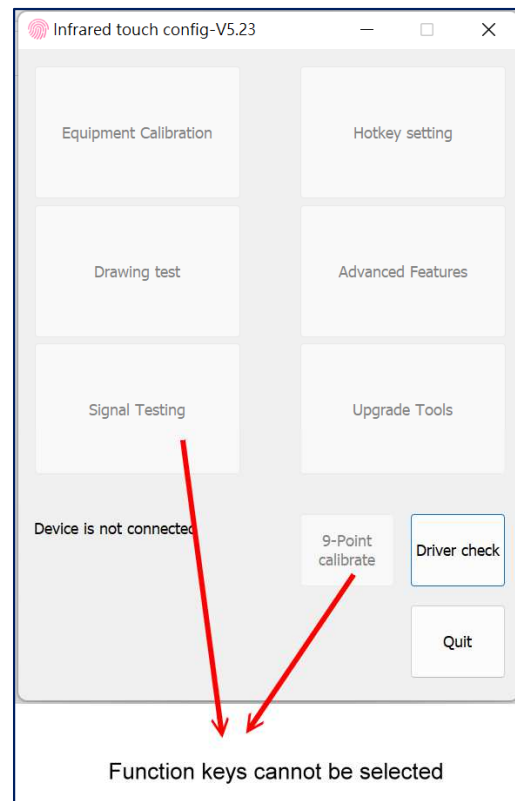: Frame connection PCB board cable is not connected or loose

❖ **Possible reasons :**

1. The frame is falling off or not sticking to the flat white board.

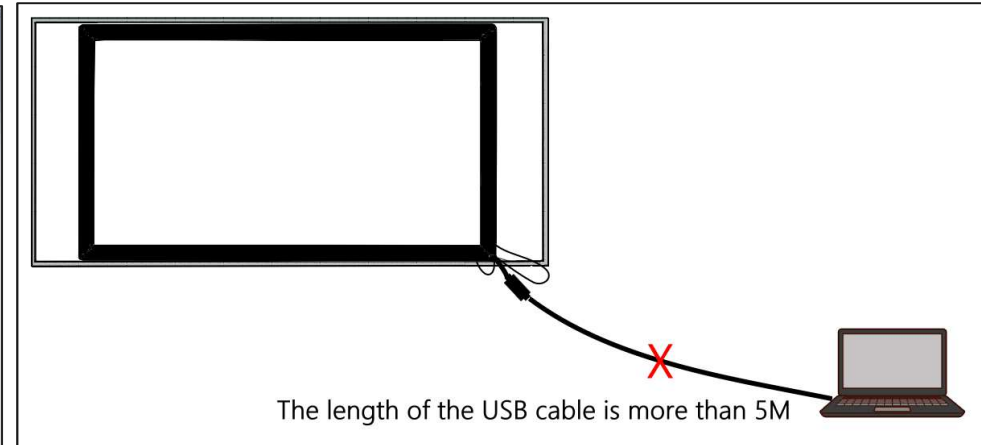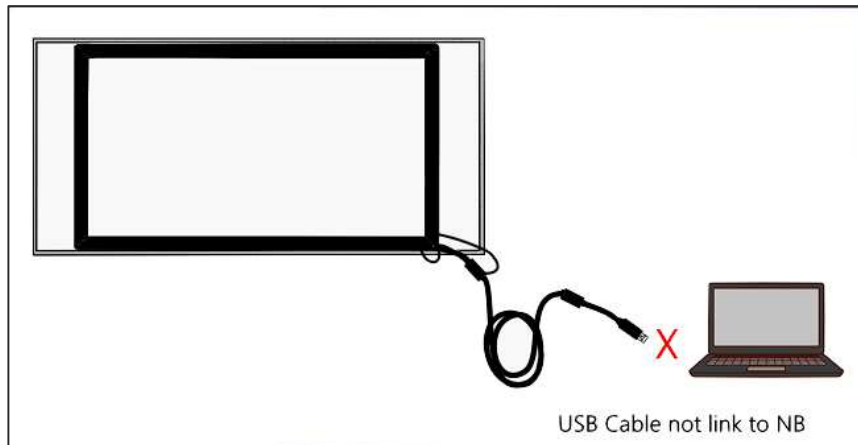2. Frame connection PCB board cable is not connected or loose.

❖ **Objects Solution :**

Fix the edge strip close to the white board, if the problem is still not eliminated, you need to try to reconnect the PCB board cable.

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# Troubleshooting



The computer cannot read the Mimio Frame device

USB Cable not link to NB

The length of the USB cable is more than 5M

❖ Possible causes and elimination methods :

1. The USB cable is not connected to the computer or the USB cable is connected too long, causing signal attenuation.

(USB connection length exceeds 5M, a signal extender needs to be installed)

2. Check whether the computer has anti-virus software or firewall and other monitoring software installed to block the external usb device

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