

# xx495 Overlay Touch Kits Series Production Presentation



# Capabilities



**Write on the screen with your finger or a pen, and erase**



**Touch the screen to navigate through documents, videos, presentations, or websites.**



**Make notes, draw shapes, move, scale, or rotate the images with a finger touch the screen to navigate through documents, videos, presentations, or websites.**

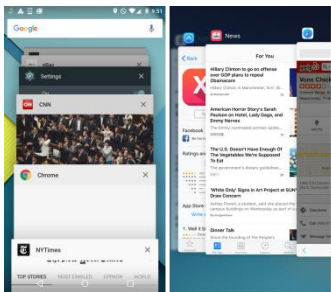
# Capabilities



**Touch kit supported 10 Point at the same time.**



**Control the PCs / tablets in the classroom from the display**



**Switch from writing notes to navigating applications and back**

# Overlay Touch Kits Series Specifications

	TCH43IR01	TCH49IR01	TCH55IR01	TCH65IR01
Touch Screen (Overlay Design)				
Type of Touch Technology	Infrared (IR) Technology	Infrared (IR) Technology	Infrared (IR) Technology	Infrared (IR) Technology
Supported Point	10 Points	10 Points	10 Points	10 Points
Sensitivity	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer	Any touch with finger, gloved hand or pointer
Connectivity	HID, TUIO, Flash	HID, TUIO, Flash	HID, TUIO, Flash	HID, TUIO, Flash
Supported OS and applications	Windows®7, Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Android	Windows®7, Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Android
Orientation	Portrait and landscape support	Portrait and landscape support	Portrait and landscape support	Portrait and landscape support
Calibration	No need	No need	No need	No need
Accuracy	%90 <	%90 <	%90 <	%90 <
Reporting Rate	Up to 450 fps	Up to 450 fps	Up to 450 fps	Up to 450 fps
Glass type	Anti Glared (AG), Tempered	Anti Glared (AG), Tempered	Anti Glared (AG), Tempered	Anti Glared (AG), Tempered
Frame rate	up to 450 fps	up to 450 fps	up to 450 fps	up to 450 fps
Communication	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Power supply Mode	USB	USB	USB	USB
Supply voltage	DC 5V +/- 5%	DC 5V +/- 5%	DC 5V +/- 5%	DC 5V +/- 5%
Average current	<400mA	<400mA	<400mA	<400mA
Response time	<10ms	<10ms	<10ms	<10ms
Touch Accuracy	+/-2mm (over 90% area)	+/-2mm (over 90% area)	+/-2mm (over 90% area)	+/-2mm (over 90% area)
Object sizes for touch	5mm	5mm	5mm	5mm
Touch Durability	Unlimited	Unlimited	Unlimited	Unlimited
HID compatibility	Yes USB	Yes USB	Yes USB	Yes USB
Compatible Products	STM43UG02, PDM43UG12, PDH43UG12	STM49UG02, PDM49UG12, PDH49UG12	STM55UG02, PDM55UG12, PDH55UG12, UHM55UG02	UHM65UG02, UHH65UG12
Mechanical Dimensions				
Size	1010mm (L) x 598mm (H) x 37mm (D)	1238mm (L) x 712mm (H) x 104mm (D)	1280mm (L) x 751mm (H) x 38mm (D)	1507mm (L) x 882mm (H) x 42mm (D)
Shipping Size	1195mm (L) x 718mm (H) x 178mm (D)	1369mm (L) x 874mm (H) x 165mm (D)	1369mm (L) x 875mm (H) x 165mm (D)	1620mm (L) x 1006mm (H) x 165mm (D)
Bezel Width	34 mm	34 mm	34 mm	38 mm



## Assembling Touch Kit



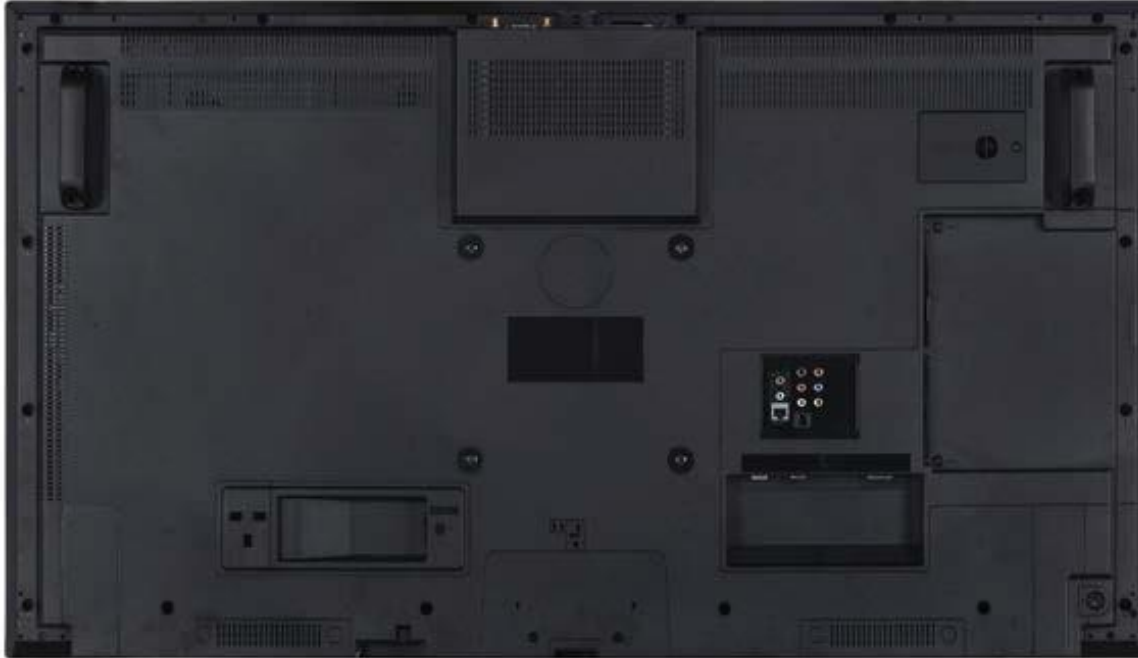
**Overlay kit is enclosed with plastizote bag shield. After that, it is located in an appropriate box by using PE materials.**

## Overlay Kits Back View



**Overlay kit is placed when touch cable is at right-top corner of the frame.**

## Assembling Touch Kit



**DS product is placed into the overlay frame. OPS gab must be placed at the same point with touch cable.**



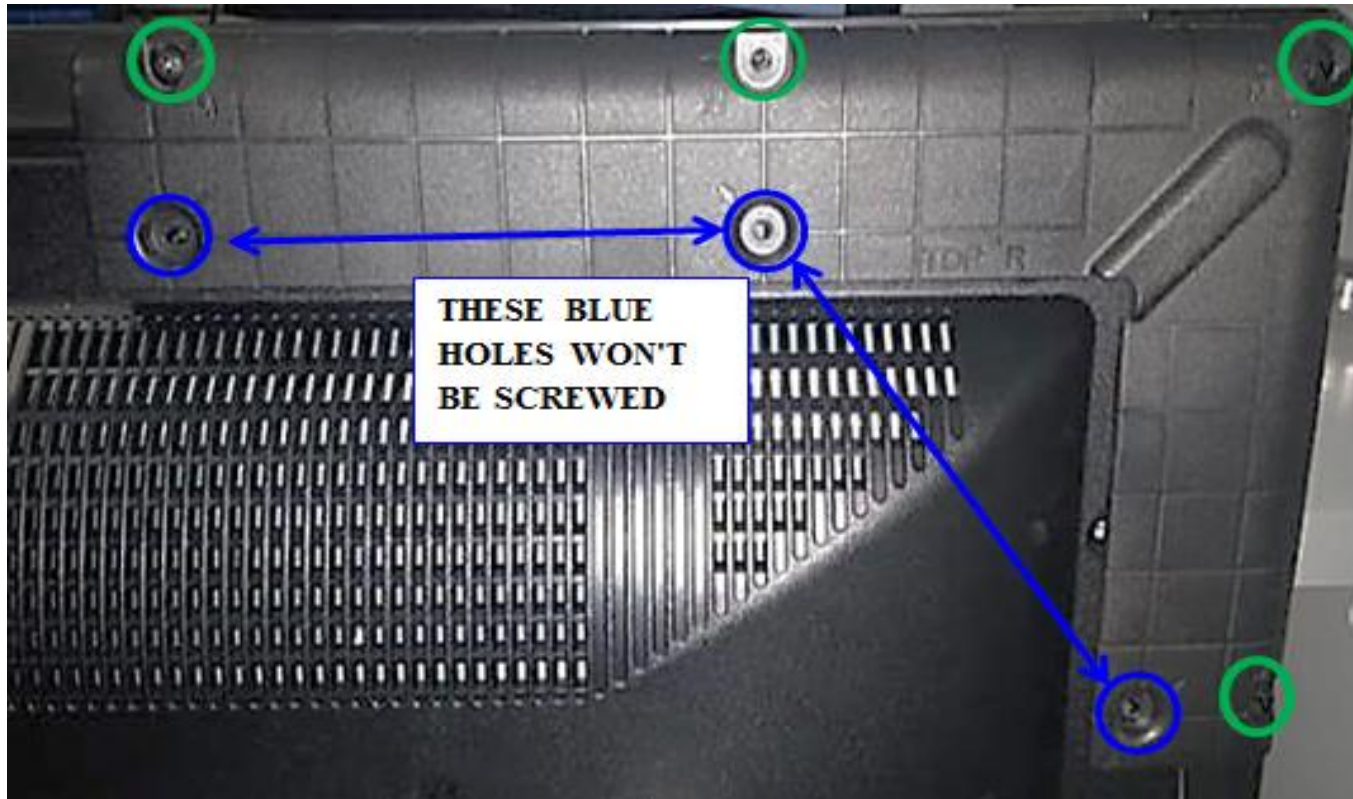
## Assembling Touch Kit



**Accessory box which contain support plastics and screws is prepared for customers who desire to turn their xx495 product into IFPD.**

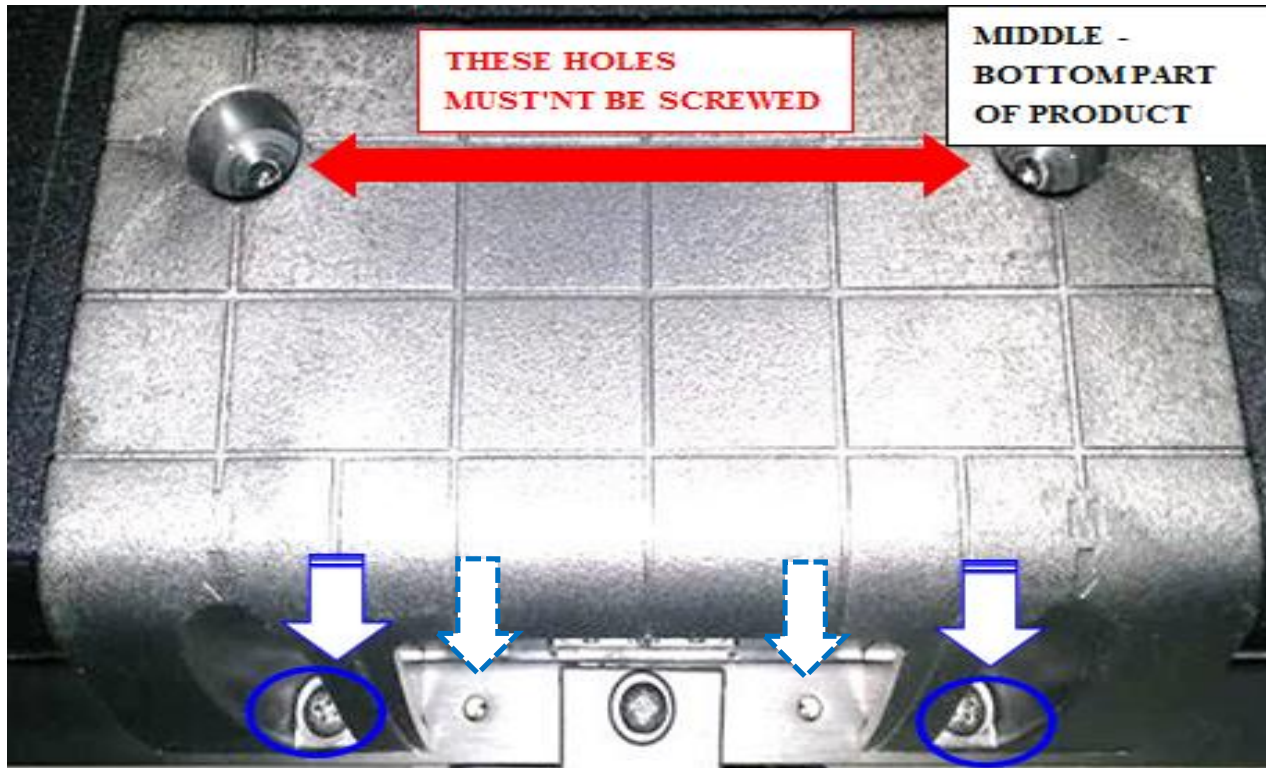


## Assembling Touch Kit



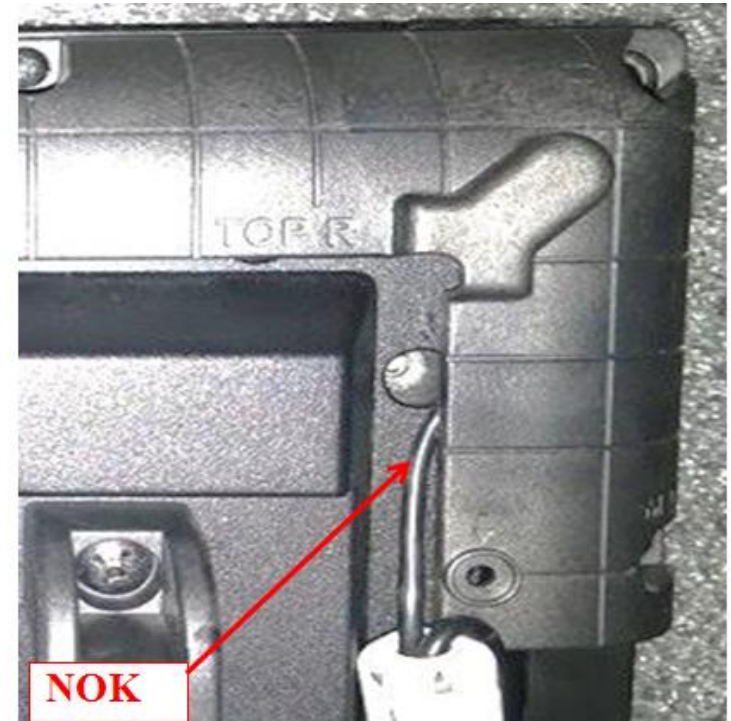
Support plastic parts are assembled to 4 corners of the product.  
4 green holes must be screwed with M4 x 16 screws for each corner.

## Assembling Touch Kit



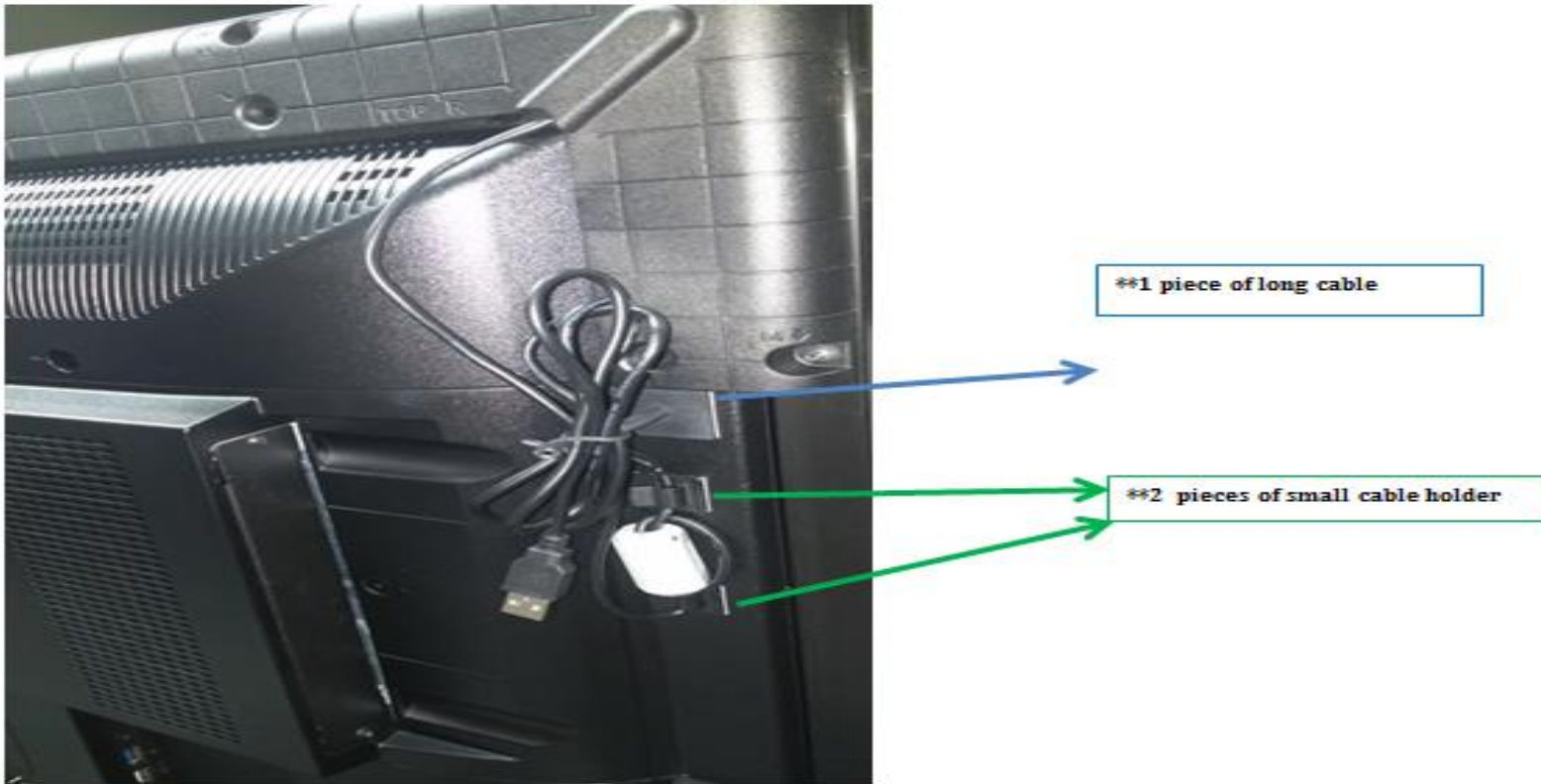
The other type of support plastic is assembled on the product by using 4 pieces of M4 x 16 screw.

## Touch Cable Assembling



**Touch cable must be released from the gab on support plastic.**

## Touch Cable Holders



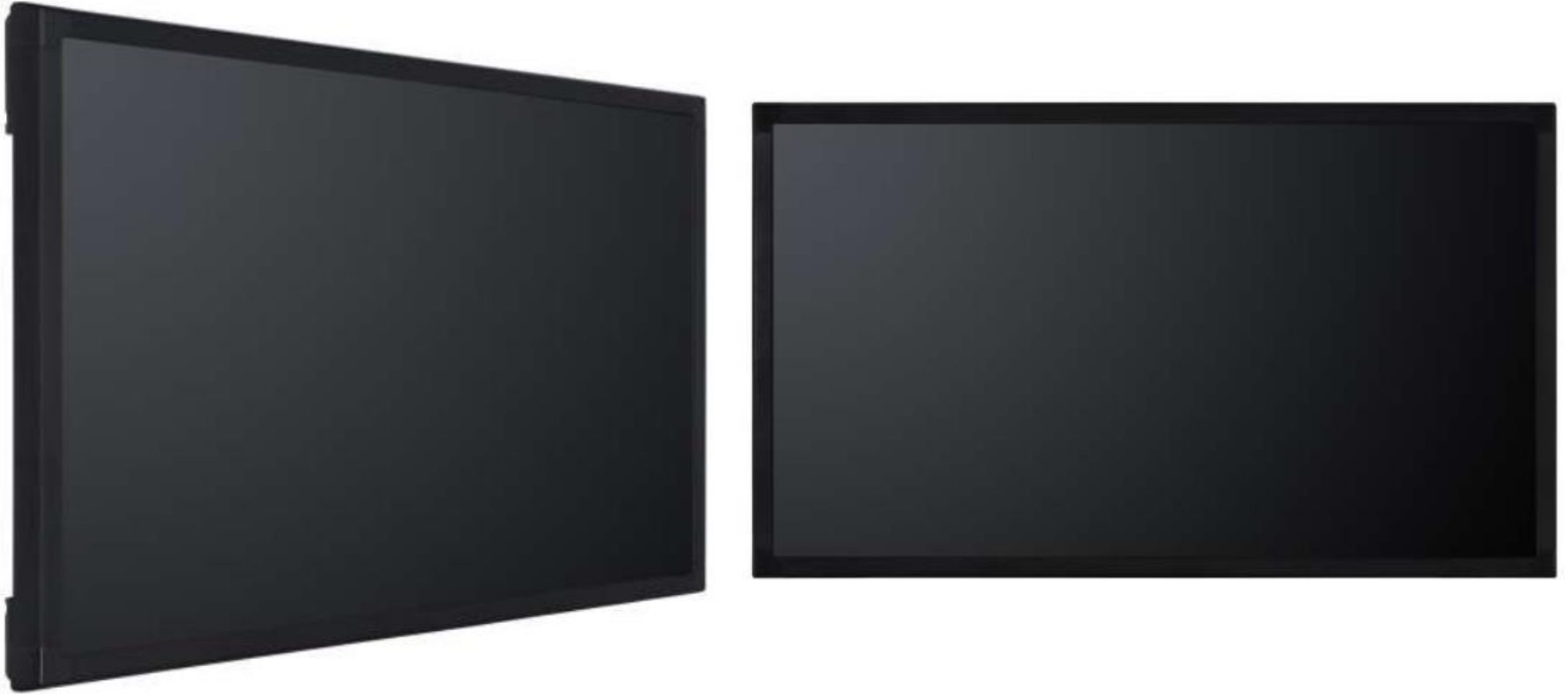
In case of not having OPS module, touch cable must be placed in cable holders properly.



## Embedded Production Back View



## Embedded Production Front View



## Embedded Production Side View





# Overlay Touch Calibration on Product

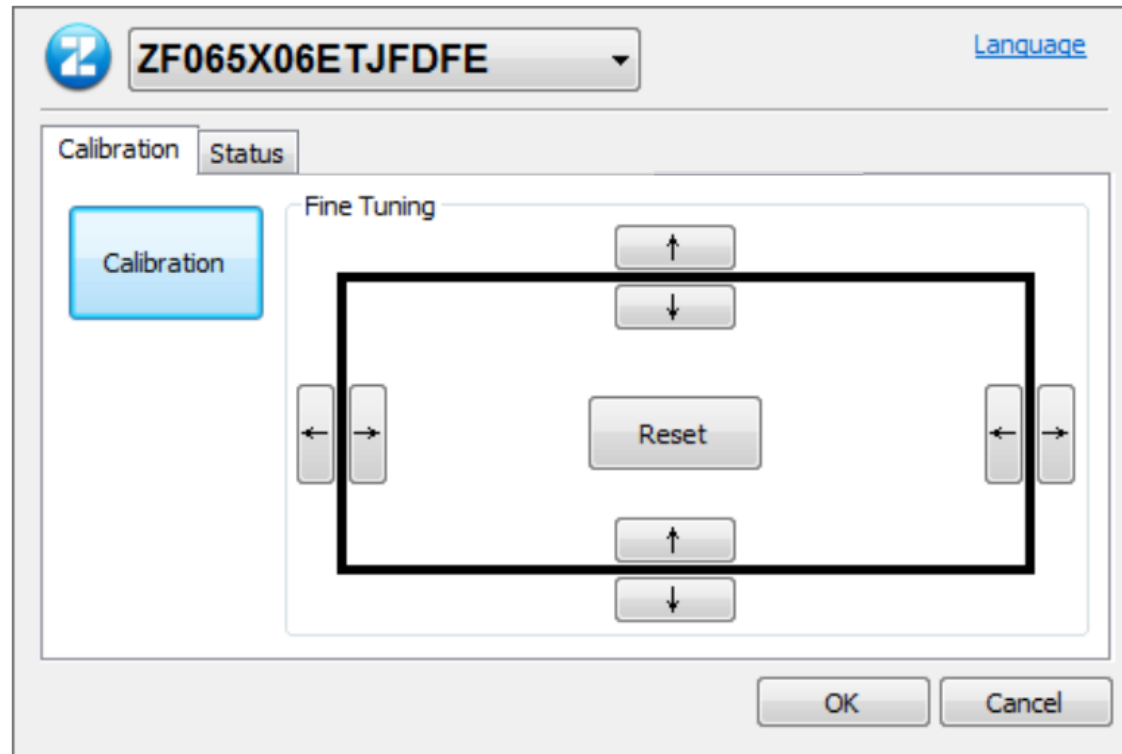


Figure 1.1

**Open calibration program with plug USB touch cable to device that is any laptop or OPS.**

# Overlay Touch Calibration on Product

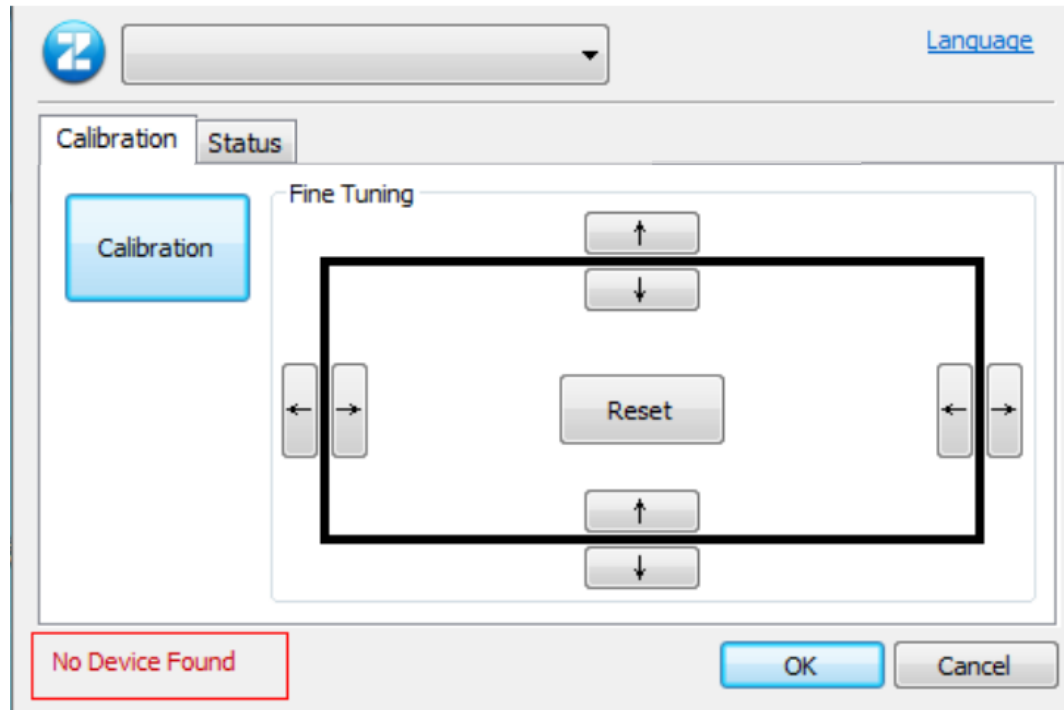


Figure 1.2

If touch don't connect any device (OPS or Laptop), you see message that is "No Device Found"

# Overlay Touch Calibration on Product

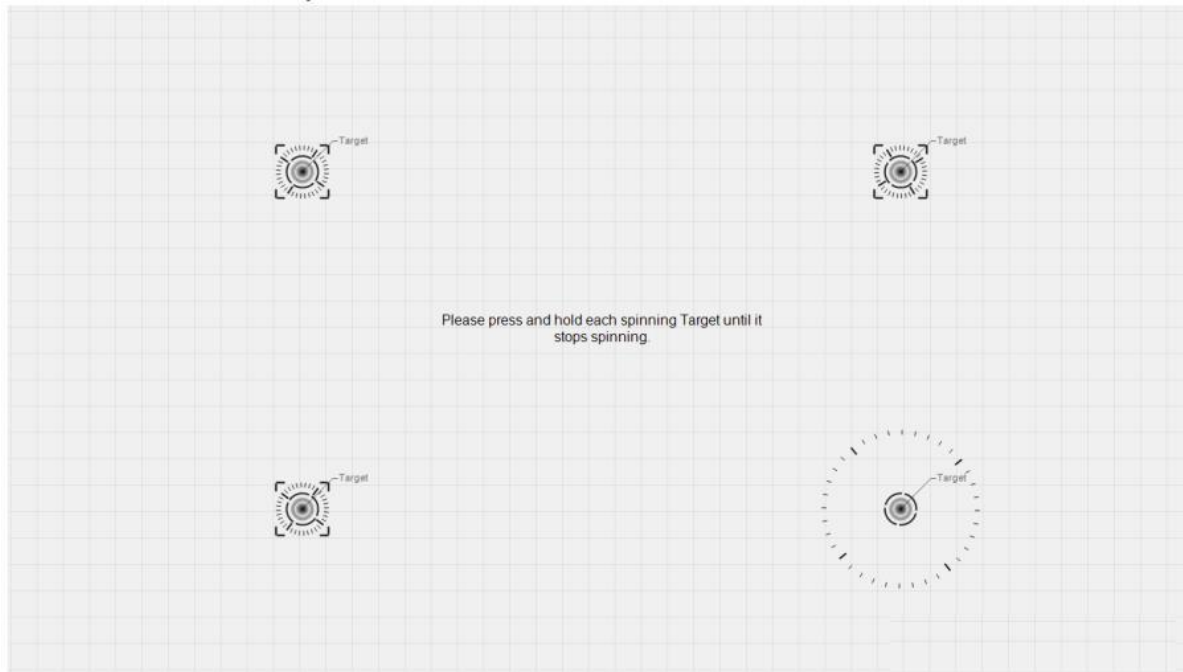


Figure 2.2

- ✓ Click calibration area on tool
- ✓ Press and hold all point from 1. to 4. point until calibrated

# Overlay Touch Calibration on Product

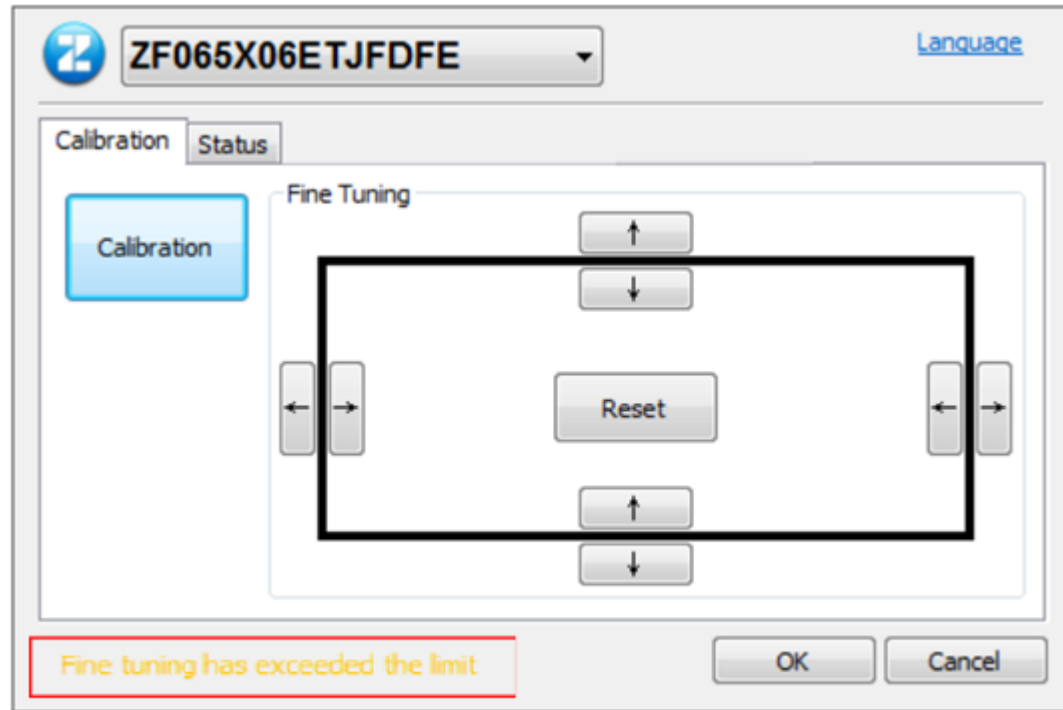


Figure 3.1

- ✓ If need sensitive calibration, click fine tuning.
- ✓ If out touch area, see warning message that is "Fine tuning has exceeded the limit."

# Overlay Touch Calibration on Product

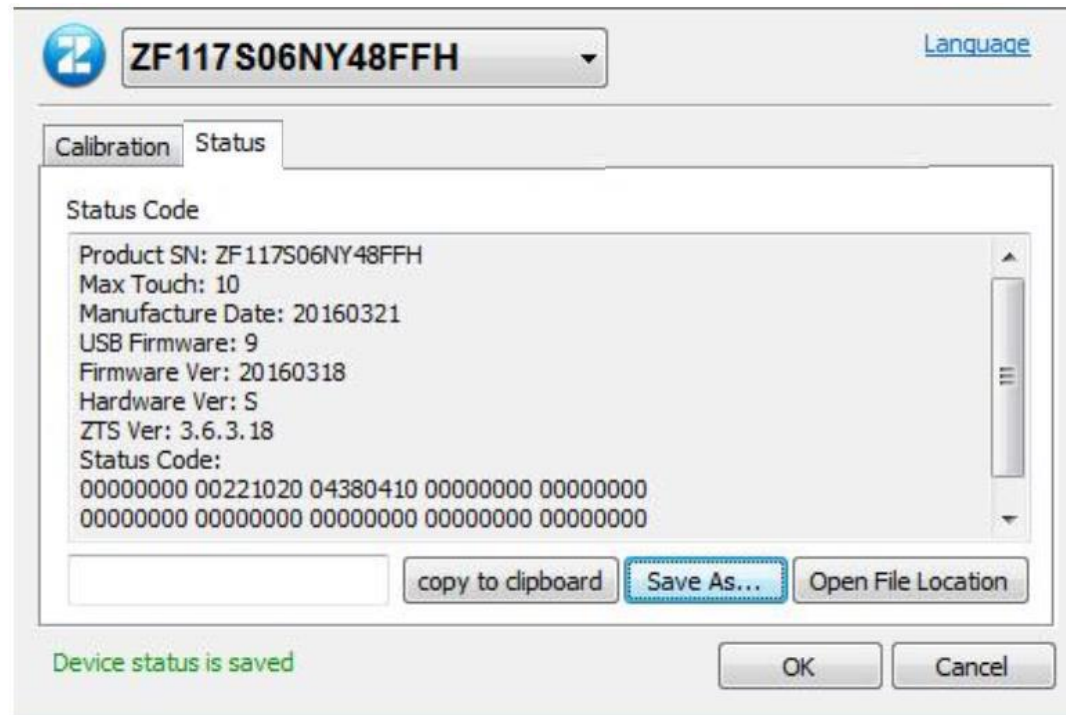


Figure 4.1

- ✓ If press "**Status**", see information about touch device.
- ✓ If save this information, click "**Save As**" and save .txt formatted.

# Overlay Touch Calibration on Product

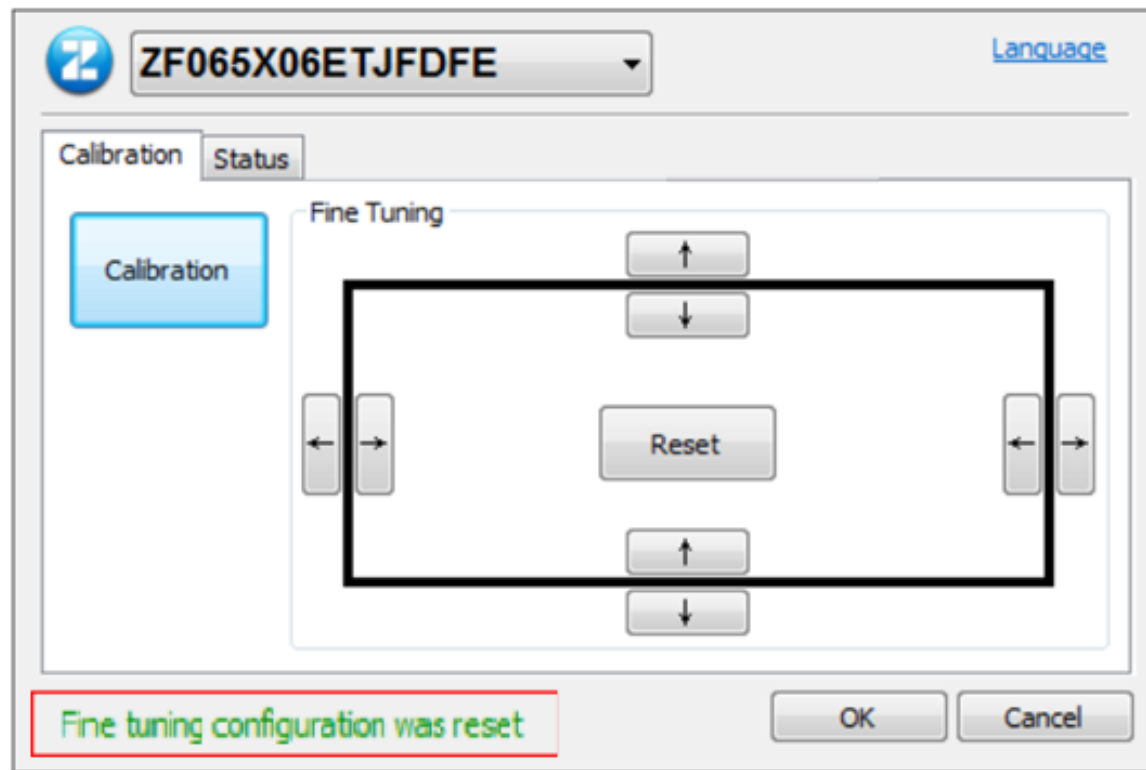
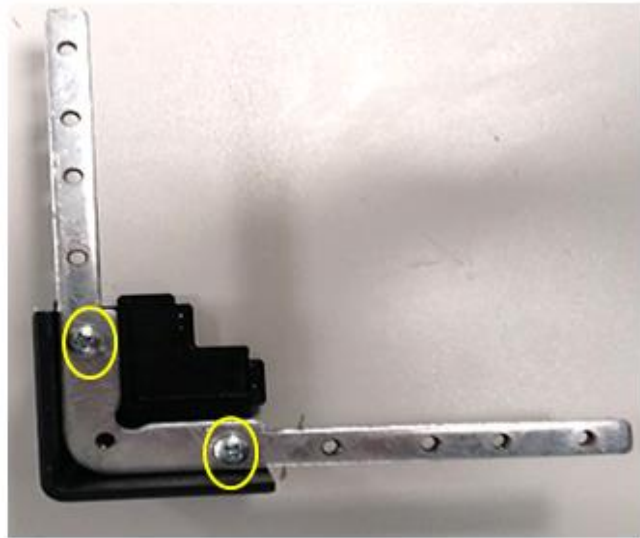


Figure 3.2

- ✓ If want remove the fine tuning, click reset button.
- ✓ When click reset button, see message that is "Fine tuning configuration was reset."

## Change Touch Frame or Glass on Touch Kit



For 4 corners, corner plastics are assembled to metal corner brackets with 2 pieces of plastic screw of which size is 4 x 8 mm.



Metal-plastic corner parts are assembled to aluminum brackets through corner bracket gabs.



Aluminum brackets are assembled to corner parts in order to create a rigid structure. 4 pieces of M4 x 14 mm screw are used for each corner.



## Change Touch Frame or Glass on Touch Kit



**Left, right and top brackets are assembled. Initially, bottom bracket is not assembled in order to make way for touch and glass.**

## Change Touch Frame or Glass on Touch Kit



**Soft sponges are plastered to touch. Soft sponges mustn't be plastered to the surface which contain barcode.**

## Change Touch Frame or Glass on Touch Kit



**Soft sponges are plastered to glass. Soft sponges mustn't be plastered to marked surface. Also, marked surface must be in touch with touch module.**

## Change Touch Frame or Glass on Touch Kit



**First of all, touch module is placed into aluminum frame slightly. Touch cable must be located on the top-right corner.**

## Change Touch Frame or Glass on Touch Kit



**After touch module, glass must be placed on touch module slightly.**



## Change Touch Frame or Glass on Touch Kit



**Finally, bottom bracket is assembled to the overlay frame.**

# THANK YOU

Vestel Application Engineering Department

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