

Product Specifications

| | |
|-----------------|-----------------------|
| Customer | |
| Model | NTSP238-2 V500 |



| Records of Revision | | | |
|---------------------|---------------------------------|-----------------|-----------------|
| Vision | Modifying | Old Description | New Description |
| v2110.1 | Preliminary Specifications | | |
| v2110.2 | Modify the Design of the Carton | | |
| v2102.3 | Add Stylus Pen Option | | |
| v2102.4 | New trademark released | | |
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Features

- ★ 23.8 inch Industrial Grade Panel, 1920x1080 (FHD) Resolution
- ★ AHVA Wide Viewing Angle Technology (178°/178°)
- ★ Narrow Bezel, True Flat Projected Capacitive Touch Screen
- ★ 7H Hardness Tempered Cover Glass
- ★ 10 points Multi-touch, Supports NEXTECH Dedicated Stylus
- ★ Metal Cabinet with Diverse Combine Options
- ★ Made in Taiwan, 3 Years Warranty
- ★ Optional Video Input (VGA/DVI/HDMI/DP)
- ★ Optional 100~240VAC and 9~36VDC Power Input
- ★ Optional Software Remote Control by RS232 or DDC/CI
- ★ Optional High Brightness 1500nits, for Outdoor Environment
- ★ Optional Auto Dimming Function (with Light Sensor)
- ★ Optional AG Coating/Antibacterial/Privacy Filter Surface Treatment



PSE



BSMI



RoHS



CE



ISO9001



FCC



Desktop Stand



Wall Mounting



Open-frame Brackets



Panel Mount

Display Specifications

| | | | |
|-----------------|-----------------------------------|--------------------------|---------------------------|
| Model Name | NTSP238 <u>XX2XX-XXXXXX</u> -500* | Display Mode | AHVA Mode, Normally Black |
| Screen Diagonal | 23.8 inch | Response Time | 14 msec. |
| Display Area | 527.04x296.46 mm | Backlight Unit | LED (white LED) |
| Resolution | 1920x1080 (FHD) | Viewing Angle (L/R, U/D) | 178°/178° (CR=10) |
| Contrast Ratio | 1000:1 | Backlight Lifetime | >50,000 Hours |
| Display Ratio | 16:9 | Operating Temp. | 0~50°C |
| Support Colors | 16.7M Colors | Storage Temp. | -20~60°C |
| Pixel Pitch | 274.5x274.5 um | | |

* X = A~Z, 0~9 (Depends on options)

Display Options

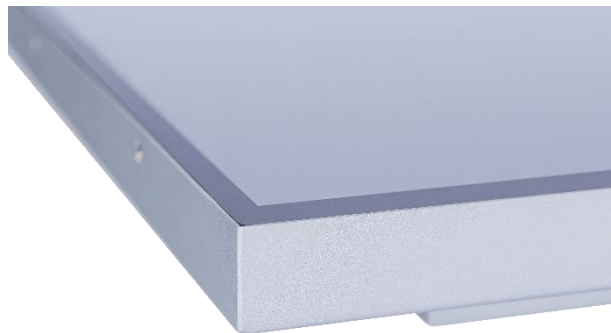
| Brightness | | | |
|------------|------------|---------------------|----------------------------------|
| | Brightness | Environment | Model Name |
| Standard | 400nits | General (Indoor) | NTSP238 <u>NX2XX-XXXXXX</u> -500 |
| Option 1 | 1000nits | Outdoor Environment | NTSP238 <u>AX2XX-XXXXXF</u> -500 |
| Option 2 | 1500nits | Sunlight Readable | NTSP238 <u>FX2XX-XXXXXF</u> -500 |

Accessories

| Item | Description | Quantity |
|---------------|---|----------|
| HDMI Cable | Male to Male, 1.8 Meter | 1 |
| AC-DC Adapter | 12V with CE/FCC/CCC/UL/RoHS/PSE/JET Certification | 1 |
| Power Cord | *Country Specific | 1 |
| USB Cable | A type, Male to Male, 1.8 Meter *(only for touch monitor) | 1 |

Touch Options

| Projected Capacitive | | | |
|----------------------|---------------------------------|-------------------------|-----------|
| Model Name | NTSP238X <u>P</u> 2XX-XXXXX-500 | | |
| Touch Technology | Projected Capacitive | Transparency | ≥87% |
| Allowed Touch Points | 10 points | Accuracy | 99.00% |
| Interface | USB/RS232 (Option) | Thickness of Cover Lens | 2.9±0.2mm |
| IK Ratings | IK07 | Hardness of Cover Lens | 7H |



* True Flat, 1mm Bezel

| Non-Touch | |
|------------|----------------------------------|
| Model Name | NTSP238X <u>0</u> 2XX-XXXX0X-500 |

| Passive Stylus Pen (Option) | |
|-----------------------------|--|
| Technology | Passive High Sensitive Knitted Wire Mesh Fiber Tip |
| Size of tip | 6mm |
| Magnetic Attachment | Yes |



Magnetic Attachment

General Options

| Video Input | | |
|-------------|-------------|----------------------------------|
| | Description | Model Name |
| Standard | VGA+HDMI+DP | NTSP238XX2 <u>3</u> X-XXXXXX-500 |
| Option | VGA+DVI | NTSP238XX2 <u>1</u> 1-XXXXXX-500 |



VGA+HDMI+DP

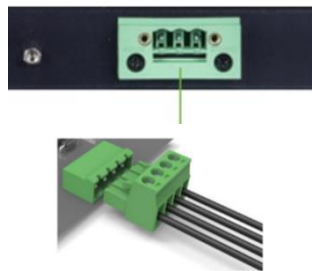


VGA+DVI

| Power Input | | |
|-------------|------------------------------------|----------------------------------|
| | Description | Model Name |
| Standard | 12V, Lockable DC Jack Φ 2.1mm | NTSP238XX2 <u>3</u> 2-XXXXXX-500 |
| Option 1 | 12VDC, DC Jack Φ 2.1mm | NTSP238XX2 <u>1</u> 1-XXXXXX-500 |
| Option 2 | 9~36VDC, Phoenix Terminal Block | NTSP238XX2 <u>3</u> P-XXXXXX-500 |
| Option 3 | 100~240VAC, C14 Female Socket | NTSP238XX2 <u>3</u> A-XXXXXX-500 |



Lockable DC Power Jack



Phoenix Terminal Block



C14 AC Socket

| Surface Treatment | | |
|-------------------|-------------------------|----------------------------------|
| | Description | Model Name |
| Standard | (none) | NTSP238XX2XX- <u>00</u> XXXX-500 |
| Option 1 | Anti-Glare Coating | NTSP238XX2XX- <u>GG</u> XXXX-500 |
| Option 2 | Antibacterial (AB Film) | NTSP238XX2XX- <u>AB</u> XXXX-500 |
| Option 3 | Anti-Spy (AS Film) | NTSP238XX2XX- <u>SF</u> XXXX-500 |

General Options (Continued)

| Color of Cabinet | | |
|------------------|--------------|--------------------------------|
| | Description | Model Name |
| Standard | Black | NTSP238XX2XX-XXBXXX-500 |
| Option 1 | White | NTSP238XX2XX-XXWXXX-500 |
| Option 2 | Silver | NTSP238XX2XX-XXSXXX-500 |
| Options | Other Colors | NTSP238XX2XX-XXXXXX-500 |

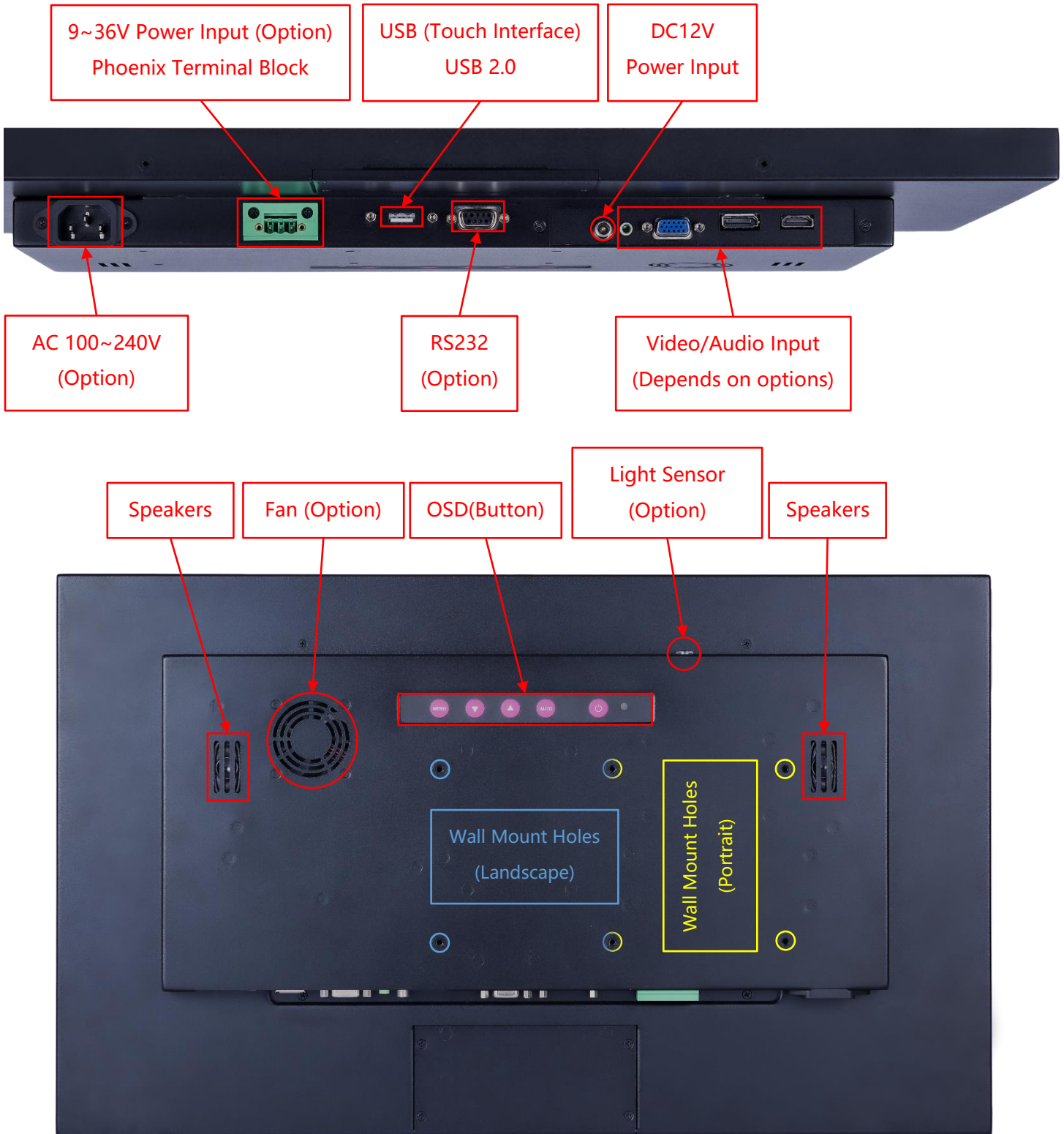
* X = A~Z, 0~9 (Depends on Color)

| Material of Cabinet | | |
|---------------------|-----------------|--------------------------------|
| | Description | Model Name |
| Standard | SECC | NTSP238XX2XX-XXXSXX-500 |
| Option 1 | Stainless Steel | NTSP238XX2XX-XXXLXX-500 |
| Option 2 | Aluminum | NTSP238XX2XX-XXXAXX-500 |

| Touch Interface | | |
|-----------------|-------------|--------------------------------|
| | Description | Model Name |
| Standard | USB | NTSP238XP2XX-XXXXUX-500 |
| Option 1 | RS232 | NTSP238XP2XX-XXXXRX-500 |
| Option 2 | Non-Touch | NTSP238X02XX-XXXXOX-500 |

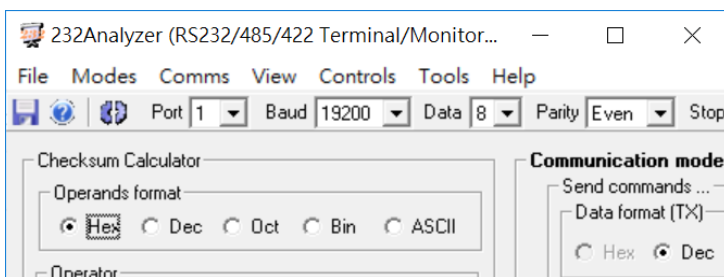
| Cooling Fan | | |
|-----------------|---------------------------|--------------------------------|
| | Description | Model Name |
| Standard | Fanless | NTSP238XX2XX-XXXXX0-500 |
| Option | 7 Blades/4000r.p.m/28.3dB | NTSP238XX2XX-XXXXXF-500 |

Input /Output System

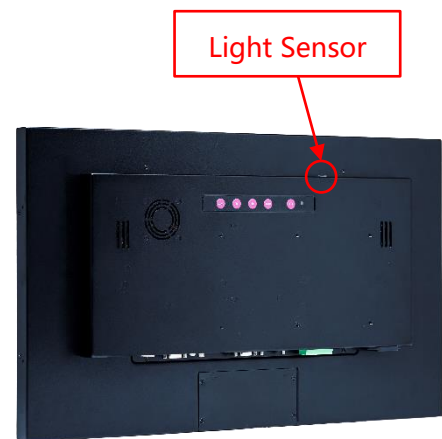


Other Options

| OSD Control | | |
|-----------------|-------------------------|--|
| | Item | Description |
| Standard | Button | Rear Physical Button |
| Option 1 | Software Remote Control | Software Remote Control by RS232/Serial Port |
| Option 2 | Auto Dimming | Auto Brightness Adjusting by Light Sensor |



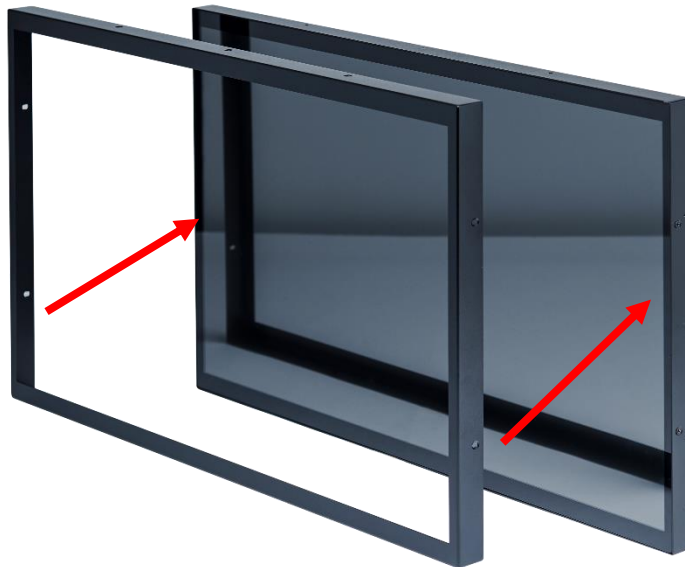
* Software Remote Control



Supported OS

| | |
|---------|----------------------------|
| Windows | Win7, Win8, Win10, Win11 ↑ |
| Linux | Kernel 2.6.24 ↑ |
| Android | 3.0 ↑ |
| Mac | 10.5.x ↑ (Intel CPU) |

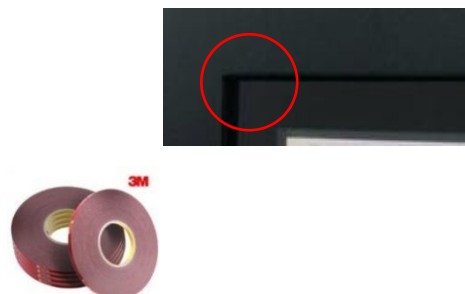
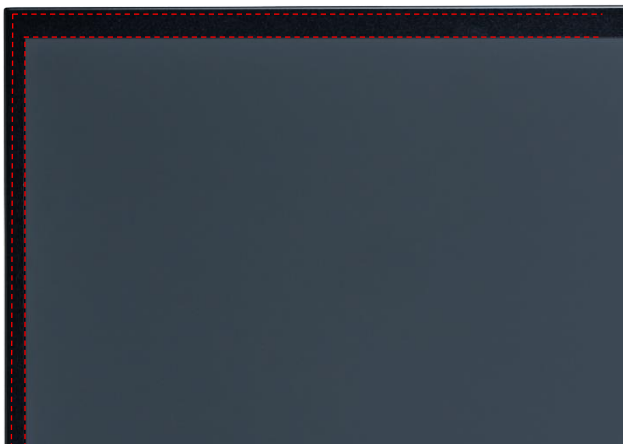
Front Cover (Option)



The standard **NTSP238** is true flat surface, with only 1mm metal bezel. To protect the corners of the touch screen, the **Front Cover** can be added.



The watertight gasket can be added between the **Front Cover** and **NTSP238**. It complies **IP65** on front.

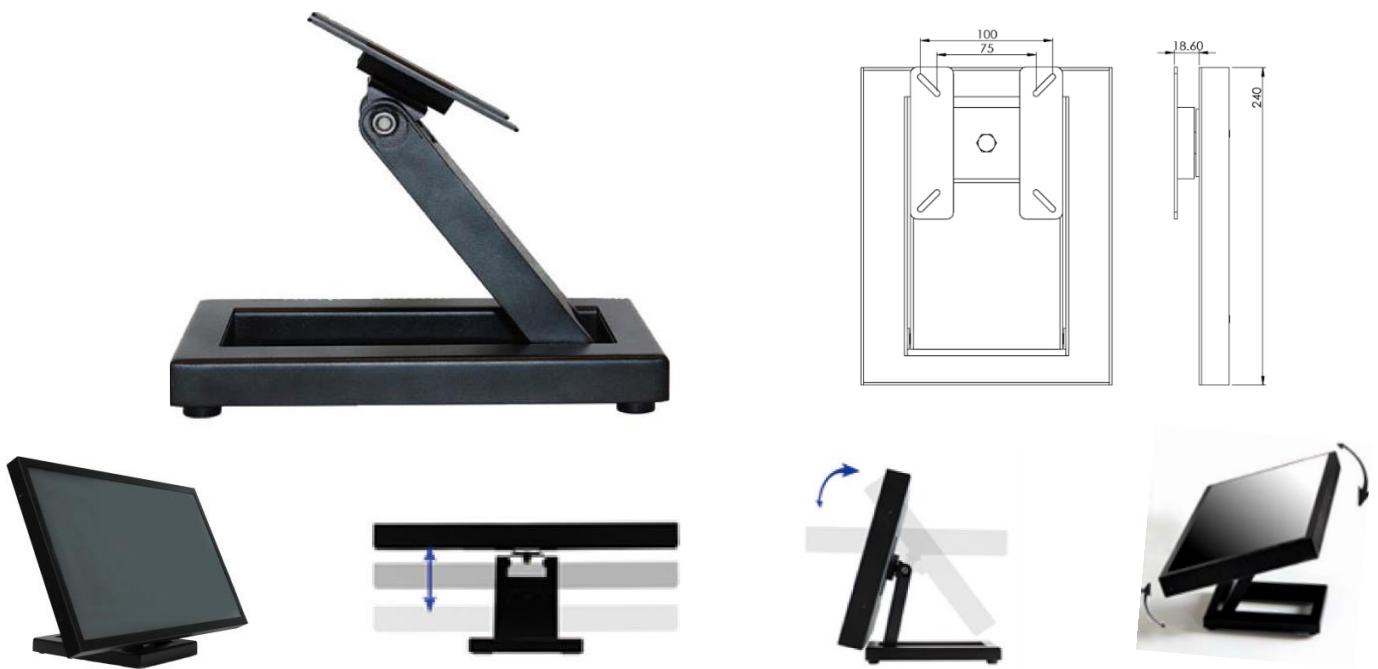


Desktop Stand (Option)

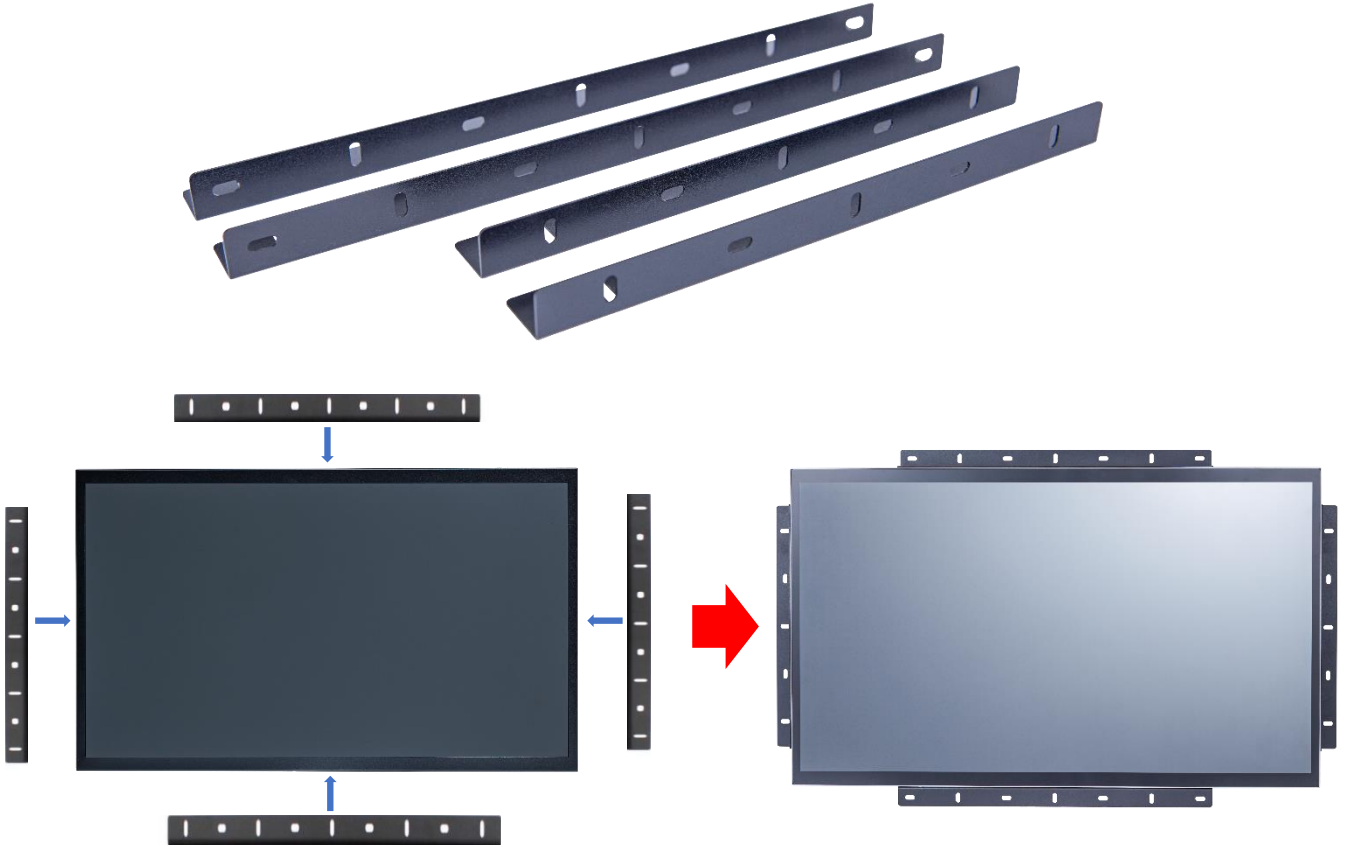
| | | | |
|------------------|------------------------|---------------------|---------------------|
| Item | B Stand | Part No. | DST-0B002/DST-1B002 |
| Mounting Pattern | 100x100 / 75x75 mm | Dimension (WxHxD) | 203x275x227 mm |
| Material | Steel/Plastic/Aluminum | Net Weight | 1.8 KG |
| Tilt (Hinge) | -2° ~ +180° | Support Max. Weight | 15 KG |



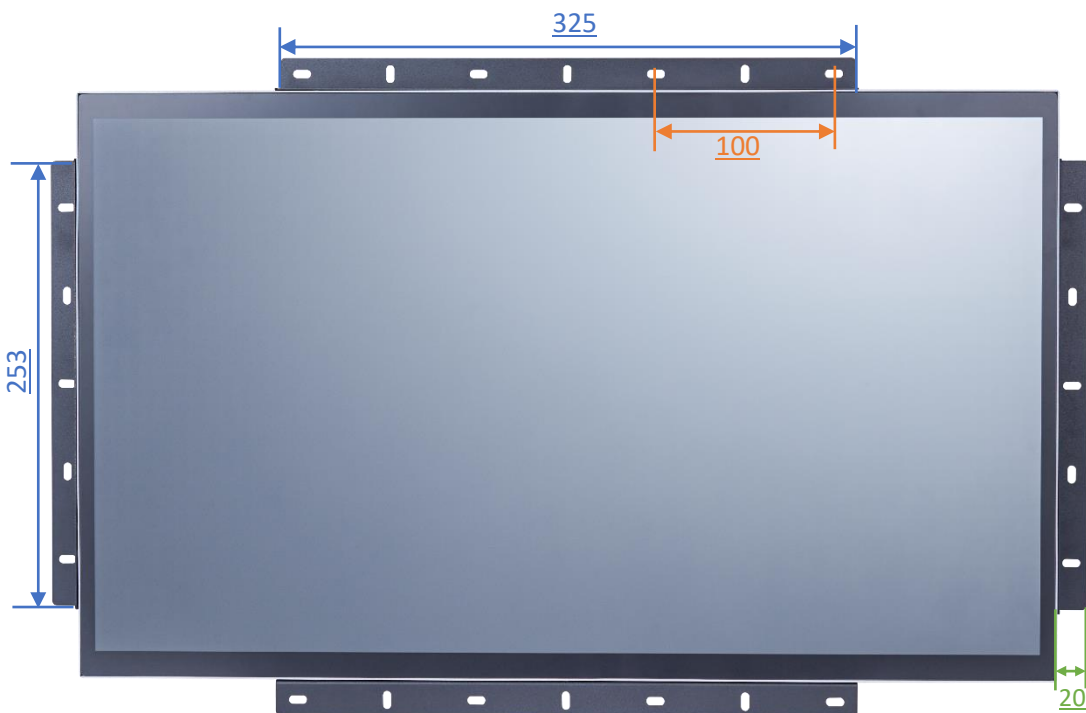
| | | | |
|------------------|--------------------|---------------------|---------------------|
| Item | Z Stand | Part No. | DST-0BZ01/DST-1BZ01 |
| Mounting Pattern | 100x100 / 75x75 mm | Dimension (WxHxD) | 190x240x41.6 |
| Material | SECC | Net Weight | 2.6 KG |
| Tilt (Hinge) | ±360° | Support Max. Weight | 15 KG |



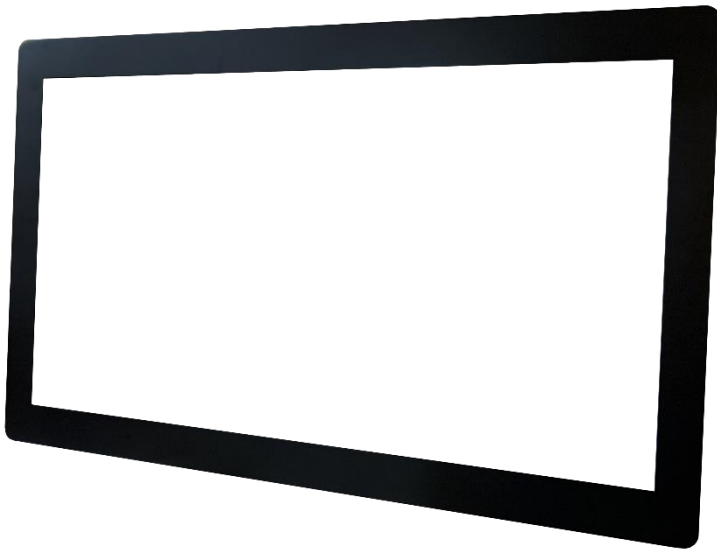
Open-frame Brackets (Option)



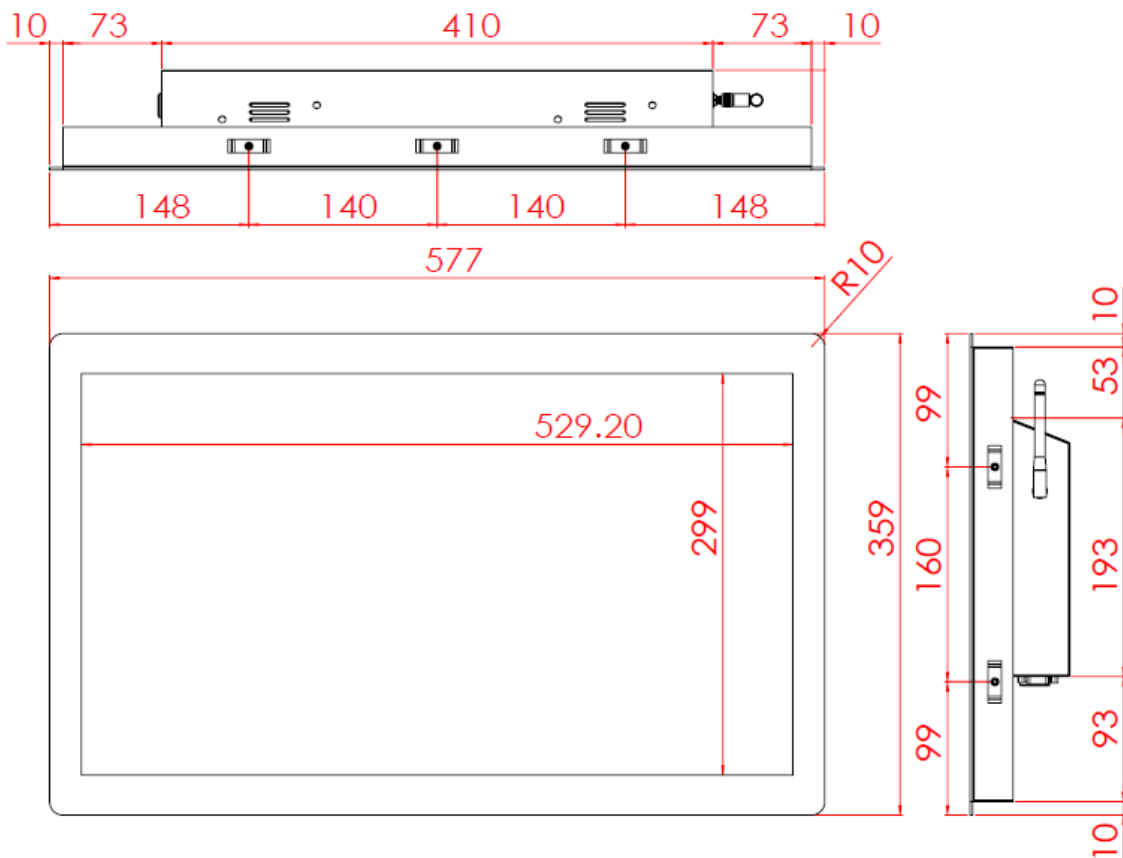
Dimension for Installing with Open-frame Brackets



Panel Mount Kits (Option)

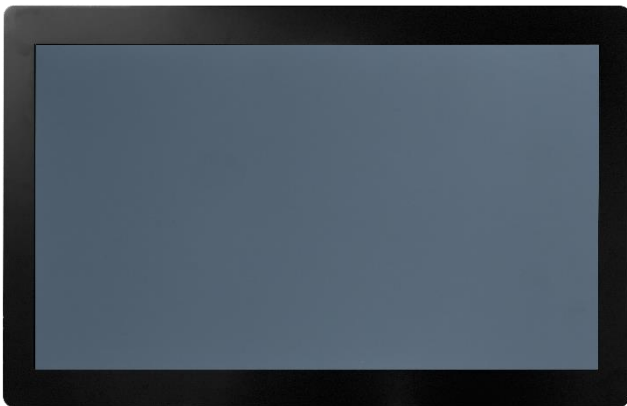
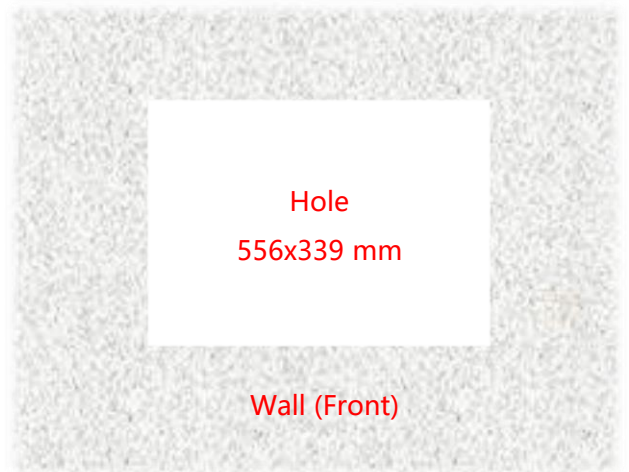


Dimension for Installing with Panel Mount Kits

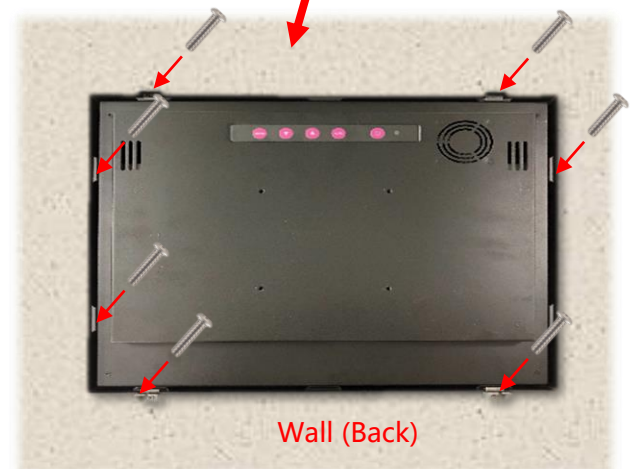




Step 1: Assemble the front module with the screen body. (This step is pre-assembled at the factory.)

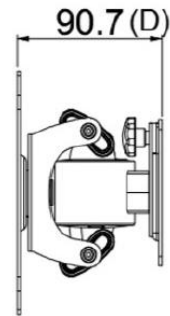
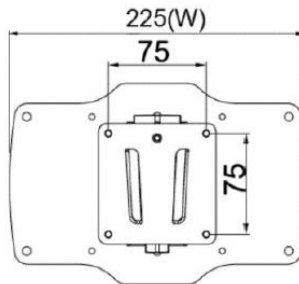
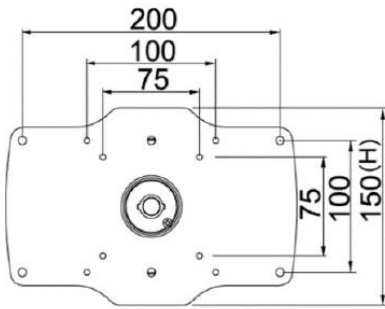


Step 2: Insert the screen from the front into the pre-cut opening.



Step 3: Attach the clips from the back and secure with screws. (Up to 9 clips can be installed as needed or per positional limitations.)

Wall Mount Bracket (Option)



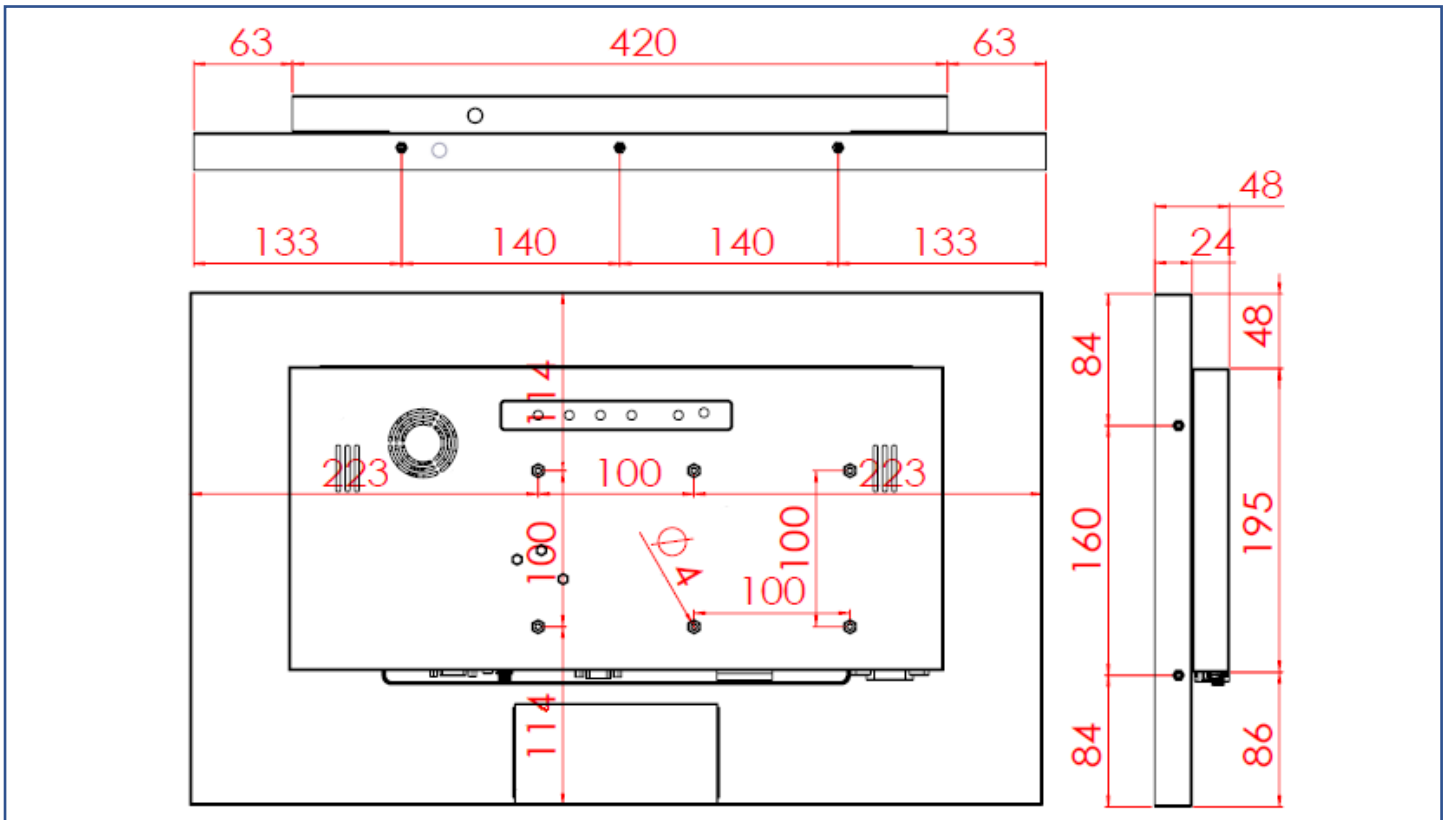
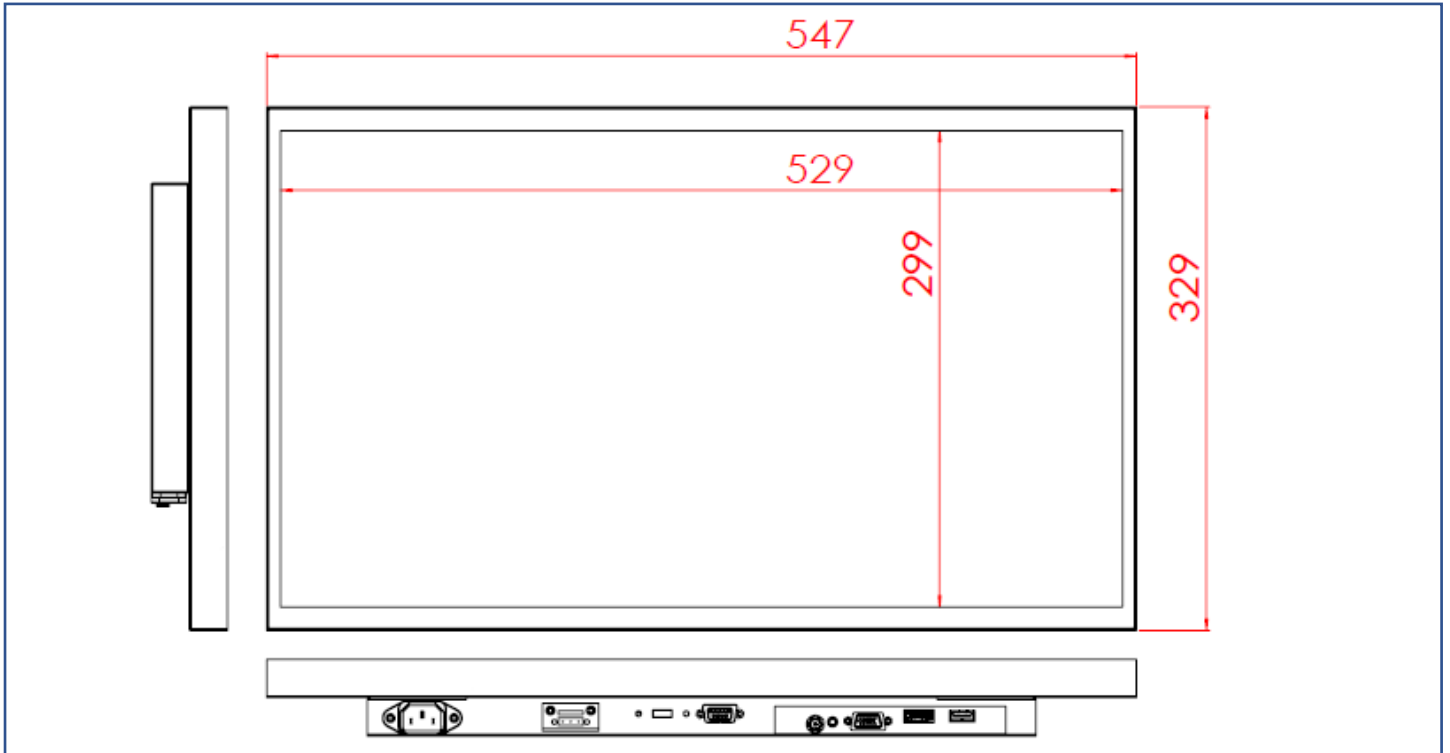
Packing Information



| | |
|------------------|-----------------------|
| Unit Carton Size | 665x160x510 mm |
| Unit N. Weight | ≤5.4 KG |
| Unit G. Weight | ≤7.6 KG |
| Units per Pallet | 30 units |
| Pallet Size | 120x100x171 CM |

Physical Specifications

| | | | |
|-----------------|-------------------------|--------------|----------------|
| Dimension (Max) | 547x329x48(±2)mm | Net Weight | ≤5.4 KG |
| VESA Mounting | 100x100 mm | Gross Weight | ≤7.6 KG |



Cosmetic Inspection Standard

| Display Area Allowance | | | |
|--|--|------------|------------|
| Defect description | Defective Specifications | Allowance | Remarks |
| Dot Defect (including dark dot, particles, bubbles, pits, dust, foreign matter) | $D \leq 0.2\text{mm}$ | Ignored | D=Diameter |
| | $0.2 < D \leq 0.7\text{mm}$ | $N \leq 5$ | N=Quantity |
| | $0.7 < D \leq 1\text{mm}$ | $N \leq 3$ | |
| | $D > 1\text{mm}$ | $N \leq 0$ | |
| Linear Defect (including scratches, fluff, particles) | $W \leq 0.15\text{mm}$ | Ignored | W=Width |
| | $0.15 < W \leq 0.5\text{mm}, L \leq 15\text{mm}$ | $N \leq 2$ | L=Length |
| | $W > 0.5\text{mm}$ or $L > 15\text{mm}$ | NG | |

* Visual inspection distance: 60cm, 90 degree (same for front/side/back)

| Front Appearance Allowance (Including Coating) | | | |
|---|---|------------|-------------------|
| Defect description | Defective Specifications | Allowance | Remarks |
| Dot Defect (including particles, bubbles, pits...etc.) | $D \leq 0.7\text{mm}$ | Ignored | D=Diameter |
| | $0.7 < D \leq 1.5\text{mm}$ | $N \leq 3$ | N=Quantity |
| | $D > 1.5\text{mm}$ | $N \leq 0$ | |
| Linear Defect (including scratches, fluff, particles) | $W \leq 0.2\text{mm}, L \leq 15\text{mm}$ | Ignored | W=Width, L=Length |
| | $0.2 < W \leq 0.7\text{mm}, L \leq 15\text{mm}$ | $N \leq 1$ | |
| | $W > 0.7\text{mm}$ or $L > 15\text{mm}$ | NG | |

| Side / Back Appearance Allowance (Including Coating) | | | |
|---|---|------------|-------------------|
| Defect description | Defective Specifications | Allowance | Remarks |
| Dot Defect (including particles, bubbles, pits...etc.) | $D \leq 1.5\text{mm}$ | Ignored | D=Diameter |
| | $1.5 < D \leq 3\text{mm}$ | $N \leq 8$ | N=Quantity |
| | $D > 3\text{mm}$ | $N \leq 2$ | |
| Linear Defect (including scratches, fluff, particles) | $W \leq 0.8\text{mm}, L \leq 15\text{mm}$ | Ignored | W=Width, L=Length |
| | $0.8 < W \leq 1.5\text{mm}, L \leq 15\text{mm}$ | $N \leq 5$ | |
| | $W > 1.5\text{mm}$ or $L > 15\text{mm}$ | NG | |



Display Area
(Red Area)



Front Appearance (Red Area)



Back Appearance