

NPD2118

21.5" IP65 Sunlight Readable Marine Display

NAVPIXEL NPD2118, the high-performance, rugged monitor, is specially engineered to survive from the most demanding working environment. Housed in a milled billet aluminum case, the slim-profile NAVPIXEL NPD2118 is light weight and watertight. The front-mounted sunlight readable screen makes the industrial rugged monitor vividly and user-friendly. In addition, the high power efficiency and low heat design guarantee the stability and longevity required for mission critical deployment.

Features

- 1000 nits Sunlight Readable LCD
- Long Life, Low Power Consumption LED Backlight
- Wide Operating Temperature
- Picture In Picture Function
- Advanced Optical Bonding (AOT)
- High Shock & Vibration Resistance
- IP65 Facial Waterproof
- Isolation Power 9-36V DC Input

Application

- Marine



Specifications

V1

| | |
|----------------------------------|---|
| Model Number | NPD2118 |
| Description | 21.5" IP65 Sunlight Readable Marine Display |
| Backlight | LED Backlight |
| Active Display Area | 477.7 x 269.1mm |
| Brightness | 1600 cd/m ² |
| Resolution | 1920x1080 (FHD) |
| Contrast Ratio | 1100:1 |
| Pixel Pitch (mm) | 0.248(H) x 0.248 (V) |
| Viewing Angle | 170 (H), 160(V) |
| Display Color | 16.7M |
| Response Time | 5ms |
| Inputs | VGaX2, DVlX2, Compositex3, RS232x1, USBx1 |
| PIP Support | 3 Stages (child, split & wide screen) |
| Mechanical | |
| IP Rating | Facial waterproof to IP65 standards when console mounted. |
| Construction | Rugged Aluminum Alloy Chassis |
| Mounting | Panel (Flush) mount, VESA mount |
| Dimension (mm) | 557.6(W) x 383.2(H) x 56.9(D) |
| Net Weight | 6kg |
| Power | |
| Voltage | DC Input Voltage: DC 9~36V |
| Power Consumption | 47W |
| Environmental | |
| Operating Temperature | -10°C~50°C |
| Non-Operating Temperature | -20°C~70°C |
| Certification | Designed to meet CE / FCC Class A |
| Marine Type Approval | Designed to meet CE/FCC & BV Marine Approval Pending |

Specifications are subject to change without notice.

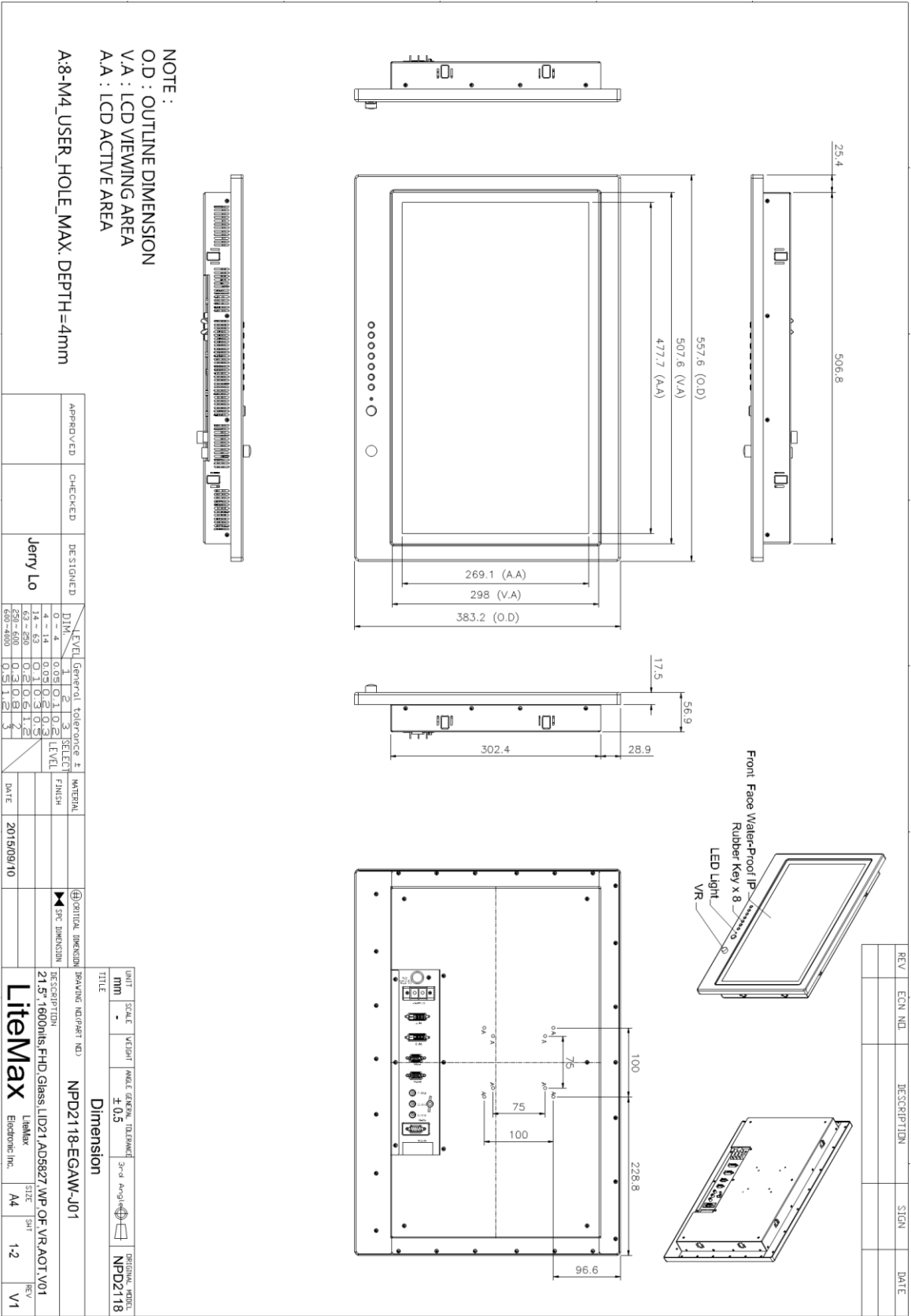
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Mechanical Drawing

Outline Dimensions

Unit:mm



NOTE :
 O.D : OUTLINE DIMENSION
 V.A : LCD VIEWING AREA
 A.A : LCD ACTIVE AREA

A:8-M4_USER_HOLE_MAX_DEPTH=4mm

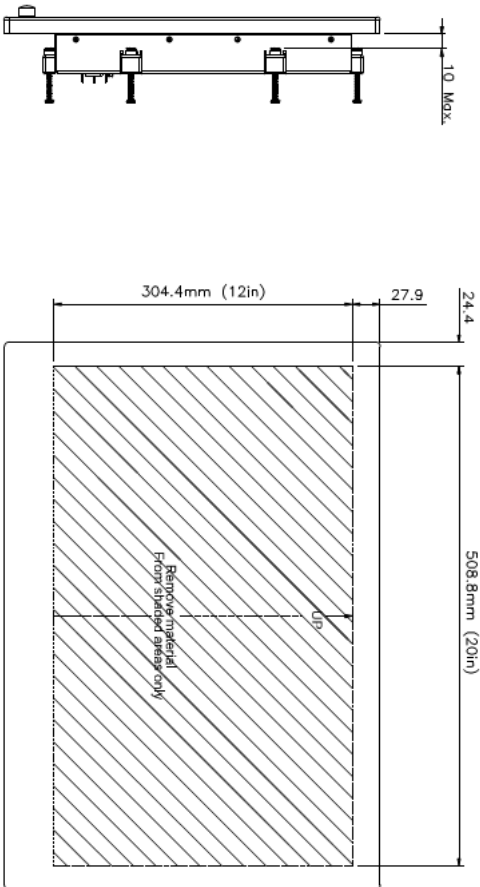
| APPROVED | CHECKED | DESIGNED | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|-----------|------------|-------------------|-------------|----------------|-------|-------------------|-----------|-------------------|-----|-----|----|--------|-------|-----|---------|--|----------|-----|-----|-----|--|-----------|-----|-----|-----|--|------------|-----|-----|-----|--|-------------|-----|-----|-----|--|
| | | Jerry Lo | 2015/09/10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>LEVEL</th> <th>General</th> <th>Tolerance</th> <th>±</th> <th>MATERIAL</th> </tr> <tr> <td>0 ~ 4</td> <td>0.09</td> <td>0.1</td> <td>0.2</td> <td></td> </tr> <tr> <td>4 ~ 13</td> <td>0.15</td> <td>0.2</td> <td>0.3</td> <td></td> </tr> <tr> <td>13 ~ 250</td> <td>0.2</td> <td>0.3</td> <td>0.5</td> <td></td> </tr> <tr> <td>250 ~ 500</td> <td>0.3</td> <td>0.5</td> <td>1.0</td> <td></td> </tr> <tr> <td>500 ~ 1000</td> <td>0.5</td> <td>1.0</td> <td>2.0</td> <td></td> </tr> <tr> <td>1000 ~ 4000</td> <td>1.0</td> <td>2.0</td> <td>5.0</td> <td></td> </tr> </table> | | | | LEVEL | General | Tolerance | ± | MATERIAL | 0 ~ 4 | 0.09 | 0.1 | 0.2 | | 4 ~ 13 | 0.15 | 0.2 | 0.3 | | 13 ~ 250 | 0.2 | 0.3 | 0.5 | | 250 ~ 500 | 0.3 | 0.5 | 1.0 | | 500 ~ 1000 | 0.5 | 1.0 | 2.0 | | 1000 ~ 4000 | 1.0 | 2.0 | 5.0 | |
| LEVEL | General | Tolerance | ± | MATERIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 ~ 4 | 0.09 | 0.1 | 0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 ~ 13 | 0.15 | 0.2 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 ~ 250 | 0.2 | 0.3 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 ~ 500 | 0.3 | 0.5 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 ~ 1000 | 0.5 | 1.0 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 ~ 4000 | 1.0 | 2.0 | 5.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>UNIT</th> <th>SCALE</th> <th>VEIGHT</th> <th>ANGLE</th> <th>GENERAL TOLERANCE</th> <th>3rd ANGLE</th> <th>ORIGINAL MODEL</th> </tr> <tr> <td>mm</td> <td>-</td> <td>-</td> <td>-</td> <td>± 0.5</td> <td>☑</td> <td>NPD2118</td> </tr> </table> | | | | UNIT | SCALE | VEIGHT | ANGLE | GENERAL TOLERANCE | 3rd ANGLE | ORIGINAL MODEL | mm | - | - | - | ± 0.5 | ☑ | NPD2118 | | | | | | | | | | | | | | | | | | | | | |
| UNIT | SCALE | VEIGHT | ANGLE | GENERAL TOLERANCE | 3rd ANGLE | ORIGINAL MODEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| mm | - | - | - | ± 0.5 | ☑ | NPD2118 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>TITLE</th> <th>DESCRIPTION</th> <th>SIZE</th> <th>SH</th> <th>REV</th> </tr> <tr> <td>Dimension</td> <td>NPDP2118-EGAW-001</td> <td>A4</td> <td>1-2</td> <td>V1</td> </tr> </table> | | | | TITLE | DESCRIPTION | SIZE | SH | REV | Dimension | NPDP2118-EGAW-001 | A4 | 1-2 | V1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TITLE | DESCRIPTION | SIZE | SH | REV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimension | NPDP2118-EGAW-001 | A4 | 1-2 | V1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REV | ECN NO. | DESCRIPTION | SIGN | DATE |
|-----|---------|-------------|------|------|
| | | | | |



| REV | ECN NO. | DESCRIPTION | SGN | DATE |
|-----|---------|-------------|-----|------|
| | | | | |

NPD2118 Flush Mount Template



Side View

Back View

| APPROVED | CHECKED | DESIGNED | DWG. LEVEL | General tolerance ± | MATERIAL | DATE |
|----------|---------|----------|------------|---------------------|----------|------------|
| | | Jerry Lo | 0 ~ 4 | 0.051 0.102 | | 2015/09/10 |
| | | | 4 ~ 14 | 0.051 0.203 | | |
| | | | 14 ~ 63 | 0.102 0.303 | | |
| | | | 63 ~ 250 | 0.203 0.612 | | |
| | | | 250 ~ 630 | 0.303 1.12 | | |
| | | | 630 ~ 1000 | 0.51 1.12 | | |

| | | | | | |
|------|-------|--------|-------------------------|-----------------------|----------------|
| UNIT | SCALE | WEIGHT | ANGLE GENERAL TOLERANCE | 3 rd ANGLE | ORIGINAL MODEL |
| MM | - | - | ± 0.5 | ± 0.5 | NPD2118 |

Dimension

| | | |
|------------------|---|------------|
| TITLE | DESCRIPTION | DATE |
| NPD2118-EGAW-J01 | 21.3" (538mm) Glass LID21 ADR68Z W/P OF V.A.O.T.V01 | 2015/09/10 |

LiteMax Electronic Inc. A4 2-2 V1



Ordering Information

| Part Number | Description |
|-------------------|---|
| NPD2118-EGAW-J01 | 21.5",1600nits,FHD,Glass.LID21,AD5827,WP,O/F,VR,AOT.V01 |
| NPD2118-EGAW-J011 | 21.5",1000nits,FHD,Glass.LID21,AD5827,WP,OF,VR,AOT.with adaptor,V01 |

Optional Accessories

| Part Number | Description |
|-------------------------|---|
| 810650005110 | CABLE,POWER,DC,5000mm,TER.MINAL TO OPEN,14AWG*2C+BRA.ID,COOL GRAY 7C PVC JACKET,P |
| 810130001000 | CABLE.VGA.3000mm.D-SUB15P MALE.BLUE TO D-SUB 15P MALE BLUE.BLACK.P |
| 321189155501 | Print,Menu,User,NPD.1555,V0,series,P |
| 321179211801 | Print,Menu,Install,NPD,2118,V0.Flush mount template,P |
| 112615315401 x (4) | Metal,SPCC,NPS,1531,Lock,V0,P |
| 214032121101 x (4) | Screw,M4,32mm,Round,Ni,P |
| 460100002101 x (4) | Fixture,other,MP-4,V0,P |
| 980000560010 (Optional) | SET,OTHER,ADAPTER REWORK.60W KPA-060F WITH Y TYPE.TERMINAL,P |
| 810618301010 (Optional) | CABLE.POWER.AC.1830mm USA type |
| 810618301090 (Optional) | CABLE,POWER,AC,1830mm Europe type |
| 810618301050 (Optional) | CABLE.POWER.AC.1830mm UK type |
| 810618301170 (Optional) | CABLE.POWER,AC,1830mm Australia type |
| 810618301031 (Optional) | CABLE.POWER.AC.1830mm Japan type |