

Product Information Sheet  
Outdoor 5 mm LED Panel

## LED-PRO-E 050



### NEC Outdoor LED – Stunning Visibility in a bright world

For bezel-free viewing experiences using vivid LED technology, NEC's LED Solution delivers essential visualization for scalable large digital surfaces. Even for cost-conscious deployments for presentation and signage, NEC's LED Solution provides long lasting NEC quality with industrial-grade power supplies in easy to install.

NEC's innovative PRO-E SMD series generates crisp, clear viewing without fading or distortion in any ambient light, whether it's day or night, bright or dark.

Benefit from excellent viewing angles, consistent vibrant colours, superb brightness and long lasting performance for high impact display projects.

#### Benefits

**Care-free installation** – Low weight aluminium framed solution that reduces support structure loading for a more cost effective project.

**Large scale for perfectly detailed imagery** – completely bezel-less design with high contrast rates deliver an unhindered viewing experience.

**Slim design** – with a flush rear profile, LED modules can be integrated very close to the wall with no gap necessary due to minimal heat emission.

**Front serviceable modules** – with front access to the LED modules, maintenance is easy.

**Visual excellence** – high contrast and high brightness is inherent in LED delivery, benefit from NEC's long lasting quality.

## Product information

|               |                              |
|---------------|------------------------------|
| Product Code  | LED-PRO-E-050                |
| Product Group | Outdoor LED 5.0 mm LED panel |

## Display

|                           |                               |
|---------------------------|-------------------------------|
| Pixel Configuration       | 3-in 1 SMD                    |
| LED type                  | SMD (1921)                    |
| Panel Size [mm]           | 960 × 960                     |
| Aspect Ratio              | 1:1                           |
| Pixel Pitch [mm]          | 5.0                           |
| Brightness (max.) [cd/m²] | 5500                          |
| Lifetime                  | 100000 hrs (50% brightness)   |
| Contrast Ratio (typ.)     | 5000:1                        |
| Viewing Angle [°]         | 140 horizontal / 120 vertical |
| Dimming Capability        | 256 levels                    |
| Colour Processing         | 16 bit                        |
| Colours                   | 281 trillion                  |
| LED Driving Method        | 1/7 dynamic scan              |
| Frame Rate                | 50/60 Hz                      |
| Refresh Rate [Hz]         | < 3840                        |
| Colour Temperature [K]    | 6000 - 10000                  |

## Screen Resolution

|                                  |           |
|----------------------------------|-----------|
| Resolution                       | 192 × 192 |
| Resolution per m²                | 40,000    |
| Number of Pixel per module [dot] | 64 × 64   |
| Number of Pixel per card [dot]   | 4,096     |

## Connectivity

|                     |   |
|---------------------|---|
| Input Video Digital | 1 × HDMI 2.0; 1 × DP 1.2; 1 × DVI-D                       |
| Input Control       | 1 × GenLock; 1 × LAN; 1 × USB IN; 1 × USB OUT (Cascading) |

## Electrical

|                             |                         |
|-----------------------------|-------------------------|
| Total Power Consumption [W] | 240 typ. / 720 max.     |
| Power Consumption typ. [W]  | 260 per m² (normal use) |
| Power Consumption max. [W]  | 780 per m²              |

## Environmental Conditions

|                            |           |
|----------------------------|-----------|
| Operating Temperature [°C] | -10 to 80 |
| Operating Humidity [%]     | 10 to 80  |

**Mechanical**

|                             |                 |
|-----------------------------|-----------------|
| Dimensions (W × H × D) [mm] | 960 × 960 × 108 |
|-----------------------------|-----------------|

|   |                |
|---|----------------|
| Dimensions (W × H × D) [mm]<br>per module | 320 × 320 × 42 |
|---|----------------|

|             |    |
|-------------|----|
| Weight [kg] | 32 |
|-------------|----|

**Additional Features**

|                  |   |
|------------------|---|
| Shipping Content | LED Controller; LED Modules; Pixel Card Removal Tool; Spare Parts Kit |
|------------------|---|

|              |     |
|--------------|-----|
| Manufacturer | NEC |
|--------------|-----|

|                |                      |
|----------------|----------------------|
| Serviceability | Front & Rear Service |
|----------------|----------------------|

|          |           |
|----------|-----------|
| IP Level | IP65/IP65 |
|----------|-----------|

|                |                                |
|----------------|--------------------------------|
| Certifications | CCC; CE; FCC Class B; RoHS;RCM |
|----------------|--------------------------------|

|          |                              |
|----------|------------------------------|
| Warranty | 3 years conditional warranty |
|----------|------------------------------|

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