NEXT GENERATION
SMART LIGHTING
KEY SMART CITY NEEDS:

- INTERCONNECTED
  - TRANSPORTATION
  - LIGHTING
  - SENSORS
  - ROAD CONDITIONS
  - WATER & SEWAGE
  - SECURITY
  - PEDESTRIAN ACTIVITY
Utilizing the city’s most prevalent infrastructure, Wi-Fiber’s proprietary hardware supports smart-city integrations while simultaneously enabling a comprehensive, city-wide mesh network.
NEXT GENERATION MODULAR HOUSING

MODULAR ENCLOSURE

› THERMO-EFFICIENT
› HIGH RESOLUTION CAMERA
› ULTRA-EFFICIENT LED BULBS
› 2G, 5G, AND IOT

› SENSORS
  • AIR QUALITY
  • GUNSHOT
  • TEMPERATURE
› INDIVIDUALLY REPLACED COMPONENTS
STRATEGIC ADVANTAGE

- Modular Design: High yield rate, easy assembly, maintenance, and low cost.

- Green: High efficiency & energy saving

- Smart: Connected to serve as backbone for smart city initiatives.

- Efficient: Smart sensors - detection ongoing

- Versatile: Modular enclosure supports multiple inputs

- Multifunctional: Integrated components for surveillance, security, marketing/content platform, and connectivity.

- Capacity: Works in conjunction with Wi-Fiber mesh connectivity for future integrations.
Enclosures incorporate 2G/5G mesh, interconnecting an endlessly scalable gigabit grid.

Wireless distribution connects local client devices and offers remote access to cameras, sensors, and other modular components.
# LED Light Module

- Ultra Low Power: $\geq 130 \text{ lm/w}$
- Ultra High Output: 8,000 lm
- Glass Optical Lens
- Configurable Color Temperature
- Batwing & Asymmetrical Light Patterns
- Color Rendering: $>70$

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Source</td>
<td>Nichia high power LED</td>
</tr>
<tr>
<td>Optical Lens</td>
<td>Glass Optical Lens</td>
</tr>
<tr>
<td>Optical Design</td>
<td>Special Batwing &amp; Asymmetrical Light Pattern</td>
</tr>
<tr>
<td>LED Luminare Light Output</td>
<td>$130 \text{ lm/}W(\text{AC}) / 130 \text{ lm/}W(\text{AC}) / 125 \text{ lm/}W(\text{AC}) / 120 \text{ lm/}W(\text{AC})$</td>
</tr>
<tr>
<td>Initial Luminare Ligh Output</td>
<td>$8000 \text{ lm} \sim 1900 \text{ lm}(\pm5%)$</td>
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<tr>
<td>Color Rendering Index</td>
<td>$&gt;70$</td>
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<tr>
<td>Color Temperature</td>
<td>$4500 \text{ k} \sim 5000 \text{ k}$</td>
</tr>
<tr>
<td>Housing</td>
<td>Aluminium with Anti-corrosive Metallic Lacquer/Cover: PC</td>
</tr>
<tr>
<td>Weight</td>
<td>8.5kg</td>
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<thead>
<tr>
<th>SPECIFICATION</th>
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<tbody>
<tr>
<td>Installation</td>
<td>60m (2.36*)</td>
</tr>
<tr>
<td>Anti-static electricity</td>
<td>40kv</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>$-40 \sim +70^\circ \text{C}$</td>
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<tr>
<td>Storage Temperature</td>
<td>$-50 \sim +100^\circ \text{C}$</td>
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<tr>
<td>Illumination Management System</td>
<td>Timing Setting (ON/OFF/Dimming/Flashing), Energy Statistics, Error Notification</td>
</tr>
<tr>
<td>Intensity Distribution Curve</td>
<td></td>
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</tbody>
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POWER SUPPLY & CONTROL MODULE

MODULAR ENCLOSURE

› POWER SUPPLY
  • Service Life: 8+ years
  • Externally Stored for Cooling

› CONTROL MODULE
  • Externally Stored for Cooling
  • Low Power: <1W
  • Fail Safe Design