Vigilant® & SafeSite® High Bay

Our state-of-the-art, highly efficient Vigilant® High Bay fixture can communicate wirelessly with all components in the IntelliLED™ system.

Certifications & Ratings
- 10 year warranty
- UL 1598/A (wet locations)
- CSA C22.2 No. 250.0-08
- IP66/67

Technical Specifications:

- **Fixture weight:**
  - 100-277 VAC: 28 lbs (12.7 kg)
  - 347-480 VAC: 42 lbs (19.1 kg)
- **Shipping weight:**
  - 100-277 VAC: 35 lbs (15.9 kg)
  - 347-480 VAC: 47 lbs (21.3 kg)
- **Operating voltage:**
  - 100-277 VAC, 120-250 VDC
  - 347-480 VAC
- **Operating temperature:**
  - -40°F to +149°F (-40°C to+65°C)
- **Harmonics:**
  - IEC 61000-3-2
- **Noise requirement /EMC:**
  - FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
- **Transient protection:**
  - Protection devices capable of handling up to 10kv. Tested for 10kv/2 ohm combination wave, as per IEEE C62.41, line-line and line ground
- **THD:**
  - <20%
- **Power factor:**
  - > 0.9
- **Fusing:**
  - Internal
- **Housing:**
  - Copper free aluminum
- **Finish:**
  - Superior dual coat finish
  - Sealed polyester topcoat
  - Chemical resistant epoxy primer
- **Lens:**
  - See table
- **CRI:**
  - 80
- **CCT:**
  - 5000K (cool white)
  - 4000K (neutral white)

All values typical unless otherwise stated (tolerance +/- 10%)

Temperature Ratings

<table>
<thead>
<tr>
<th>Ambient Temp Range</th>
<th>Ambient Temp Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>T4 Temp Code:</td>
<td>T5 Temp Code:</td>
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<tr>
<td>-40°F to +149°F</td>
<td>-40°F to +131°F</td>
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<tr>
<td>(-40°C to +65°C)</td>
<td>(-40°C to +50°C)</td>
</tr>
</tbody>
</table>

Please reference spec sheet at www.dialight.com for all High Bay technical information.

**WARNING - INSTALLATION & SECONDARY RETENTION.** Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.
# Vigilant® & SafeSite® High Bay

## Ordering Information

### High Bay - 100-277 VAC Models - Integrated Pendant Wiring Box

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Lumens</th>
<th>Watts</th>
<th>lm/W</th>
<th>Certification</th>
<th>CCT</th>
<th>CRI</th>
<th>Lens</th>
<th>Beam Distribution</th>
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<tbody>
<tr>
<td>HCU-7MC2-EJNN-NGN</td>
<td>26,250</td>
<td>186</td>
<td>141</td>
<td>UL1598/A</td>
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<td>80</td>
<td>Polycarbonate Diffused</td>
<td>Ultra Wide</td>
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### Notes

For SafeSite® Class I, Div 2 options, change the 3rd character from “U” to “D”

For High Bay aisle optic options, change the 5th character from “M” to “E”

For neutral white options, change the 6th character from “C” to “N”

For 347-480V voltage options, change the 2nd character from “C” to “E” and the 7th character from “2” to “A”

Please consult factory for other lenses, beam distribution angles, mounting options, cable and plug accessories.

Please reference spec sheet at www.dialight.com for all High Bay technical information.

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Vigilant® High Bay - High Output

Our Vigilant® High Bay 42,000-72,000lm fixture can communicate wirelessly with all components in the IntelliLED™ system.

**Mechanical Information:**
- **Fixture weight:**
  - 120-277 VAC models: 71 lbs (32.2 kg)
  - 347/480 VAC models: 87 lbs (39.5 kg)
- **Shipping weight:**
  - 120-277 VAC models: 85 lbs (38.6 kg)
  - 347/480 VAC models: 101 lbs (45.8 kg)

Note that the wire box is installed separately from the housing. This allows single installer for fixtures.

- **120-277 VAC wire box:** 15 lbs (6.8 kg) [mount first]
- **347/480 VAC wire box:** 14 lbs (6.3 kg) [mount first]
- **Light fixture (base):** 56 lbs (25.6 kg) [mount last]

**Mounting:**
- (1) 3/4” NPT - top
- (4) 3/4” NPT - sides

**Variable Dimming:**
- **Variable dimming cable:** Two conductor cable
- **Power cable:** Three conductor cable
- **Variable dimming control:** 0-10 VDC
- **Dimming range:**
  - 10 VDC = 100% light output
  - 0 VDC = 5% light output

**Electrical Specifications:**
- **Operating voltage:**
  - 120-277 VAC, 50/60Hz
  - 347/480 VAC, 50/60Hz

- **Total system power consumption:** See table
- **Operating temp:** -40°F to +149°F (-40°C to +65°C)
- **Harmonics:** IEC 61000-3-2
- **Noise requirement /EMC:** FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
- **Transient protection:** 6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground
- **THD:** <20%
- **Power factor:** >0.9

**Construction:**
- **Housing:** Copper free aluminum
- **Finish:** Superior dual coat finish
  - Sealed polyester topcoat
  - Chemical-resistant epoxy primer
- **Lens:** Tempered glass, acrylic, polycarbonate

**Photometric Information:**
- **CRI:** 80
- **CCT:** 5000K (cool white)
  - 4000K (neutral white)

All values typical unless otherwise stated (tolerance +/- 10%)

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www.dialight.com
### Vigilant® High Bay - High Output

#### Ordering Information

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<thead>
<tr>
<th>Part Number</th>
<th>Lumens</th>
<th>Watts</th>
<th>lm/W</th>
<th>Warranty</th>
<th>Voltage</th>
<th>CCT</th>
<th>Lens</th>
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<tr>
<td><strong>High Bay - High Output - 120-277 VAC Models</strong></td>
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<td>120-277 VAC</td>
<td>5000K (cool white)</td>
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<td>10yr</td>
<td>120-277 VAC</td>
<td>5000K (cool white)</td>
<td>Glass</td>
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<tr>
<td><strong>High Bay - High Output - 347/480 VAC Models</strong></td>
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<tr>
<td>H6U-7NCD-RJNN-NGN</td>
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<td>480 VAC</td>
<td>5000K (cool white)</td>
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<td>H6U-7NCB-NJNN-NGN</td>
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<td>5000K (cool white)</td>
<td>Glass</td>
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</tbody>
</table>

**Notes**

Please consult factory for remote power supply options.

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Gateway Controller

The gateway wirelessly integrates fixtures and sensors, offering ground-level control for up to 120 nodes (fixtures and sensors).

Certifications & Ratings
- 5 year warranty
- UL 916
- CSA C22.2 No. 205
- FCC
- Canada IC
- NEMA 4X
- IP66
- EN 55032
- EN 55016-2-1
- EN 55016-2-3
- EN 61000-3-2
- EN 61000-3-3
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-4-6
- EN 61000-4-11

Technical Specifications:
- Weight: 15.8 lbs (7.2 kg)
- Shipping weight: 19.2 lbs (8.7 kg)
- Operating voltage: 100-277 VAC, 50/60 Hz
- Operating temperature: -40°F to +149°F (-40°C to +65°C)
- Ethernet: 10/100/Gb Ethernet
- Wired and WIFI for connectivity/control
- Wireless protocol: 2.4 GHz wireless mesh network
- Maximum nodes*: 120
- Dimensions (WxDxH): 13.09" x 6.3" x 21.214" (323.5mm x 160mm x 538.84mm)
- Quick disconnect: This device must be connected to a quick disconnect device, such as a circuit breaker

All values typical unless otherwise stated (tolerance +/- 10%)
*Nodes = fixtures and sensors

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAUW24AG</td>
<td>Gateway (GW), wireless controller</td>
</tr>
</tbody>
</table>

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Enterprise Server

The Enterprise Server offers the flexibility for complete site-wide lighting management through an easy to use web interface.

Certifications & Ratings
- 2 year warranty
- UL 508
- Dry location only
- EN 60068-2-6
- IEC 60068-2-27
- IEC 61000-4-3
- IEC 61000-4-4
- IEC 61000-4-5
- IEC 61000-4-6
- IEC 55022

Technical Specifications:
- Weight: 3.5 lbs (1.6 kg)
- Shipping weight: 4.9 lbs (2.2 kg)
- Operating voltage: 19.2-28.8 VDC, 65W
- Operating temperature: +32°F to +122°F (0°C to +50°C)
- Ethernet: 10/100/Gb Ethernet
- Wireless protocol: 2.4 GHz wireless mesh network
- Memory (RAM/SSD): 8 GB DDR3 / 250 GB mSATA
- Dimensions (WxDxH): 6.4" x 5.75" x 1.93" (162mm x 146.2mm x 49mm)

All values typical unless otherwise stated (tolerance +/- 10%)

Ordering Information

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<tr>
<th>Part Number</th>
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<tbody>
<tr>
<td>DACN825AP</td>
<td>Enterprise Server (ES), with wired communication to Gateway</td>
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</tbody>
</table>

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Occupancy Sensor

Reduce run time and maximize cost savings with standalone battery powered occupancy sensors in standard or wide angle options.

**Certifications & Ratings**
- 5 year warranty
- UL 916
- CSA C22.2 No. 205
- IP66

**Technical Specifications:**
- **Weight:** 8.8 oz (250 g)
- **Shipping weight:** 1.5 lbs (0.7 kg)
- **Operating temperature:** -40°F to +140°F (-40°C to +60°C)
- **Power input:** 2x "AA" lithium batteries 1.5V
- **Mounting:** Ceiling or walls at least 3’ to 5’ (900mm to 1500mm) height off the ground
- **Estimated battery life:** 2-5 years (based on usage)
- **Radio frequency:** 2.4Ghz
- **Dimensions (HxD):** 5” x 2.5”
  - 125mm x 63.5mm
- **Sensing area:**
  - Wide angle - 20°-30°, 1,250 sq ft, 120°
  - Long range - 100’, 7,600 sq ft, 10°
- **Sensing technology:** Passive infrared
- **Housing:** Grey polycarbonate
- **Lens:** Diffused high density polyethylene
- All values typical unless otherwise stated (tolerance +/- 10%)

**Green LED**
- Green LED1 flashes one time when motion is detected.
- Indicates battery voltage above 2.7 Volts.
- Green LED flashes twice every 5 seconds while searching for a network connection.

**Red LED**
- A single red LED3 flash indicates motion detected and low battery voltage below 2.7 Volts.

**Reset Button**
- Resets the processor.

**LED On/Off Switch**
- Located on bottom of sensor board, it will turn the LED indicators ON or OFF.

**Leave Button**
- Push and hold for 5 seconds to force sensor to leave its gateway.

**Join Button**
- Push and hold for 5 seconds. Sensor will double blink while trying to join a gateway. Sensor will stop blinking if it doesn’t join a gateway within 30 minutes.

**Ordering Information**

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<td>Occupancy Sensor, battery powered sensor - wide angle</td>
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<tr>
<td>WOSU12BG2</td>
<td>Occupancy Sensor, battery powered sensor - long range</td>
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</tbody>
</table>

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Daylight Harvesting Sensor

Reduce run time and maximize cost savings with standalone AC wired daylight harvesting sensors to control light levels.

Certifications & Ratings
- 5 year warranty
- UL 916
- CSA C22.2 No. 205
- EN 55022: 2008
- EN 60100-4-5: 2014
- EN 60100-4-6: 2014
- EN 60100-4-11: 2004

Technical Specifications:
- **Weight:** 10 oz (238 g)
- **Shipping weight:** 1.5 lbs (0.7 kg)
- **Operating voltage:** 100-277 VAC, 50/60Hz, 100mA max.
- **Operating temperature:** -13°F to +149°F (-25°C to +65°C)
- **Mounting:** Ceiling or walls at least 5’ (1500mm) height from the ground away from direct sunlight or obstructions
- **Radio frequency:** 2.4GHz
- **Object detection:** Light
- **Dimensions (HxD):** 5” x 2.5”
  - 125mm x 63.5mm
- **Housing:** Grey polycarbonate
- **Lens:** Polycarbonate

All values typical unless otherwise stated (tolerance +/- 10%)

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<th>Part Number</th>
<th>Description</th>
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<td>Daylight Harvesting Sensor, standalone, AC wired sensor</td>
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</tbody>
</table>

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Sensor Mounting

Long Range Sensor Wall Mount

The long range sensor is best used as a wall mounted sensor. The recommended install for this sensor is 3.2 meters or 10.5 feet from the floor.

Avoid placing sensors where obstacles can block the sensor’s line of sight.

Wide Angle Sensor Ceiling Mount

The wide optic sensor is best used as a ceiling mounted sensor. The recommended install for this sensor is 2.7 meters or 8.8 feet from the floor.

Sensor should be mounted 6 feet away from any open air vent or strong air supply openings.

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