Unisee™

Backup Camera System
Blind Spot Detection Assist System
Front Side Collision Prevention Camera System

nu
Simply Better

Unisee™ Vehicle Multi Camera System

www.unisee.nl
www.unisee.be
What is Vehicle Multi-Camera System?

Vehicle Multi-Camera system is equipped with cameras on the front, rear, and two sides, which provide real-time video of the surrounding environment to the driver to eliminate blind spots and improve safety when the driver is backing the car or entering/exiting parkings, alleys, streets.

NU Vehicle Multi-Camera Systems are categorized into different types according to different functions and camera installation locations.
Commercial vehicles
UniSee 800
Possible Install Type 3

Camera functions:
• 1,2 Front side View
• 3,4 Backup Side View
• 5 Backup View
• 6 Side View
• 7 Side View
• 8 Front View

Truck Trailer / Boat
UniSee 800
Possible Install Type 4

Camera functions:
• 1,2 Front Side View
• 3,4 Backup Side View
• 5 Backup View
• 6,7 Backup Side View - Trailer/Boat
• 8 Backup View - Trailer/Boat

Customize harness length
### Completed International Japan, Europe Vehicle Spec Design!!

<table>
<thead>
<tr>
<th>Item</th>
<th>NU UniSee Series</th>
<th>Other Brand Name Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Spec: -40°C ~ +65°C</td>
<td>Normal Spec: -10°C ~ +50°C</td>
</tr>
<tr>
<td>Lens Brand</td>
<td>Canon or Panasonic</td>
<td>Unknown</td>
</tr>
<tr>
<td>CMOS Sensor</td>
<td>Omnivision or Micron</td>
<td>Other company, Normal Spec.</td>
</tr>
<tr>
<td>Waterproof</td>
<td>IP68, the highest level</td>
<td>IP65 or lower</td>
</tr>
<tr>
<td>Defogged of Lens</td>
<td>Glass macromolecule coating can remove the water drop and mist easy and speedily, keep the clear image all the time. None. Lens easy covers the mist</td>
<td>None. Lens easy covers the mist.</td>
</tr>
<tr>
<td>UV Protection of Lens</td>
<td>Special UV coating on the lens to avoid split or crack. None Easy to split or crack after long time UV ray irradiated, and caused the bad images</td>
<td>None Easy to split or crack after long time UV ray irradiated, and caused the bad images</td>
</tr>
<tr>
<td>Power input</td>
<td>Common usage for 12 &amp; 24 V</td>
<td>Only for 12V. Common usage for 12&amp;24V will add up the cost</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>&lt; 30 ~ 40mA</td>
<td>&gt; 60 ~ 100mA</td>
</tr>
<tr>
<td>Min. Um Illumination</td>
<td>&lt; 1lux</td>
<td>&gt; 2Lux</td>
</tr>
<tr>
<td>Contrast Under the Blaze</td>
<td>Good. Clear display the image under blaze or low luminous areas. Weak. Strong contrast under blaze and low luminous areas, hard to differentiate the image.</td>
<td>Weak. Strong contrast under blaze and low luminous areas, hard to differentiate the image.</td>
</tr>
<tr>
<td>Protection of Reverse Current</td>
<td>Yes</td>
<td>Only few ones with it</td>
</tr>
<tr>
<td>Protection of Reverse Power &amp; Video input</td>
<td>Yes</td>
<td>Only few ones with it</td>
</tr>
<tr>
<td>Backup Parking Guide Line</td>
<td>Yes</td>
<td>Only few ones with it</td>
</tr>
<tr>
<td>Cable for Image</td>
<td>High spec for image cable, provide high quality image. Not really care the cable spec or image.</td>
<td>Not really care the cable spec or image.</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 year</td>
<td>1 year</td>
</tr>
<tr>
<td>Factory</td>
<td>Factory passed TS16949</td>
<td>Not sure passed the TS16949</td>
</tr>
</tbody>
</table>

### Camera General Specifications:

- **Focal Length**: 1.41 mm
- **Lens Iris**: F2.4
- **Angle of View**: 1300 (H) (Rear camera) / 600 (H) (Front camera) x 1000 (V) x 1600 (D)
- **Power Input Voltage**: DC6~24V
- **System**: NTSC
- **Total Pixels**: 640 x 480
- **Resolution**: 380 TV Line
- **Min. Um Illumination**: 1 Lux
- **S/N Ratio**: 48db @ 600 C
- **Gain Control**: Auto
- **White Balance**: Auto
- **Back Light Compensation**: Auto
- **Video State**: Mirror/Normal
- **Aperture Correction**: Horizontal/Normal
- **Power Consumption**: < 40mA
- **Auto Electronic Shutter**: 1/60s ~ 12
- **Storage Temperature**: -40°C ~ +85°C (rear), +105°C (front)
- **Operating Temperature**: -40°C ~ +85°C (rear), +105°C (front)
- **Fluid Ingress Standard**: IP 68 Standard
- **Standard Packaged Mass**: ~25g