

### Thermal Imaging Driving Assistant System



N-Driver™ sees through the total darkness, thick smoke, dense fog, heavy rain and snow, reveals unexpected obstacles, highlights sudden events, improves visibilities of road signs, navigates on unknown roads and overcomes blindness caused by oncoming headlights, thus dramatically lowers the risks of driving and enhances the safety of lives, properties and profits.

Featured razor-sharp live imaging, extremely wide viewing range, incredible durability in diverse harsh environments, instant installation on any vehicles and high affordability for any limited budgets, N-Driver™ is absolutely the perfect choice of driving assistant vision systems.

#### Features and Benefits

- Rugged and compact design ensures easy integration
- Short response time & high refreshing frequency
- NUC-free IR images with high quality during the whole driving process
- Wide-angle lens delivers super-wide viewing range
- Enabling a detection range 4 times further than traditional headlight
- Hermetically sealed water & dust proof





| N-Driver™                           |                                       |
|-------------------------------------|---------------------------------------|
| <b>Imaging Performance</b>          |                                       |
| Detector Type                       | Microbolometer UFPA 384 × 288, 25 μ m |
| Spectral Range                      | 8 to 14 μ m                           |
| Field of View                       | 40.5° × 31°                           |
| Focus/Min Focusing                  | 13mm lens, 1m                         |
| Image Frequency                     | 50Hz PAL/60Hz NTSC                    |
| <b>Video</b>                        |                                       |
| Output                              | RS170 PAL /NTSC composite video       |
| Connector Type                      | LEMO-HGGOB309/FGGOB309 plug           |
| <b>Power</b>                        |                                       |
| Input Voltage                       | 12V DC ± 3V DC                        |
| Power Dissipation                   | 3W                                    |
| <b>Environmental Specifications</b> |                                       |
| Operating Temperature Range         | -10°C to +55°C                        |
| Storage Temperature Range           | -40°C to +60°C                        |
| Encapsulation                       | Hermetically sealed enclosure         |
| <b>Physical Characteristics</b>     |                                       |
| Camera Weight                       | 0.36kg                                |
| Camera Size                         | 89mm × 71mm × 58mm                    |

Visual Image



IR Image

