The technical concept of "intelligent street light"

Sansi "intelligent street light" is a fully integrated lighting system that connects information and communication technology between multiple parties through the use of real-time systems, data, and sensors.

Sansi intelligent street light will make it easier for cities and individuals to customize a smarter and more efficient city. Our lighting systems will help improve efficiencies between multiple parties that include municipalities, private entities, law enforcement, transportation grids, hospitals, schools, and libraries.

Sansi Intelligent Street Light Application Diagram

Since 1993, Sansi has been manufacturing LED displays and lighting products with a strong focus on R&D, product lines, and sales. With a staff of more than 1,700 members including more than 400 diversified engineers, we generated RMB 1.07 billion worth of sales in 2015.

Sansi offers a variety of innovative products including LED displays and a series of lighting products ideal for both commercial and residential applications. Sansi’s portfolio includes 277 patents including 187 international patents.

In the domestic market, Sansi has a 60% market share for road variable LED message signs, a 70% market share for High Speed Train stations, and a 50% market share for all subway LED lighting projects in China. In 2012, Signage Solutions Magazines referred to Sansi as "the second largest LED manufacture worldwide".

Awards
- The Shanghai Government Quality Prize
- Shanghai Science and Technology Progress Award
- China Famous Brand
- Shanghai Famous Brand
- The first Chinese Student Personnel Returning from Entrepreneurial Boom Award for Outstanding Enterprises
- 863 Semiconductor Lighting National Key Research Project for the Unit
- The Eighth Zi Jing Hua Bei Award for Outstanding Entrepreneur
- The drafting of related standards in the field of display screen and lighting field for the Ministry of Public Security, Ministry of Communications, Ministry of Science and Technology

Think innovation! We are dedicated to providing excellent services and products that are beneficial to both our customers and the environment.
The purpose behind Sansi’s intelligent lighting applications is to make life on the road easier and safe. We make full use of the information and communication technologies that we do have and provide intelligent responses to the various needs of people’s livelihood, environmental protection, and industrial and commercial activities.

Relying on the ability of LED street lights, displays and software system integration, Sansi’s intelligent street light system is certified by the National Lighting Test Centre and has been recognized by China Illuminating Engineering Society as an internationally advanced system.
Coordinated Camera + Sensor
Traffic flow / fire alarm / gas leakage / vehicle exhausts detection

Internet + Safe City

Video Surveillance
Smart Monitoring Integration
City Managing
Group Incidence
Emergency Processing

Real time traffic density warning
Traffic density data gathering
Real time traffic density detection

Data transmission to the command center

Fire alarm
Gas Leakage

Traffic density detection system
Traffic density detection
Abnormal event detection

By the advantages of light pole position and the power supply to realize electric vehicle charging pile deployment.
Cooperate with BMW for charging pole integration

Internet + Smart Community

Smart Schoolyard
Smart Retirement
Emergency call
Alert release

Safety Card
Help Call
Call Button
Intercom System

Info Release

Provide large scale E-Car charging coverage
Intelligent street lighting configuration scheme

<table>
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<tr>
<th>Feature</th>
<th>Simplified Configuration</th>
<th>Standard Configuration (WIFI)</th>
<th>Standard Configuration (Camera)</th>
<th>High Configuration</th>
<th>Full Configuration</th>
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<tbody>
<tr>
<td>Basic Features</td>
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<td>●</td>
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<tr>
<td>Communication Sub-system</td>
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<tr>
<td>Control Sub-system</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Optional Features</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>LED Light</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Light Post</td>
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<td>●</td>
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<tr>
<td>Sensors Sub-system</td>
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<tr>
<td>Video Surveillance Sub-system</td>
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<tr>
<td>RFID Sub-system</td>
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<tr>
<td>LED Display</td>
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<tr>
<td>Emergency call Sub-system</td>
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<tr>
<td>Power Charging Station</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Micro base station/WIFI</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

Note: 1"●" Must have items  
2"★" Optional items  
3. System update supported

**Smart Light Specifications**

**Smart Lighting**
- Modular System
- Road light power: 60W-250W
- Flux: 6000lm - 25000lm
- Color temperature: 3000K-5000K
- Protection grade: IP65
- Environment temperature: -40°C ~ +55°C
- Voltage: AC85-264V
- Embedded intelligent dimming module, two level energy saving.

**Information Display**
- Pixel spacing: 3.0mm, 4.0mm
- Resolution: 576X192, 432X144
- Brightness: >4500cd/m² square
- Driver: constant current
- Dimming: 32 level auto/manual control
- Refresh rate: 960Hz
- Environment temperature: -20°C ~ +50°C

**Control and information transmission**
- Ethernet
- RS485
- WIFI
- Dimming interface 2.4GHz wireless

**Information collection**
- 1.3 million color outdoor camera, PTZ control
- Integrated environmental monitoring sensor, real-time monitoring of 5/PM2.5, temperature and humidity / atmospheric pressure / wind direction / noise
- Integrated RFID reading head, equipped with RFID tag card, record municipal equipment and child monitoring.

**Power Charging**
- Embedded 7kW electric AC charging station.
- Working voltage: 220AC
- Working current: 32A
- Smart card payment supported

**Control**
- Integrated intelligent lighting control, information collection, information dissemination and emergency call and other functions;
- Linked control of each device
- History data query, including light status, energy saving, environmental parameters etc.
- Auto alarm for multiple emergency situations.
Sansi intelligent control software system StarRiver, relying on cloud platform, realize the three grade monitoring: point (wisdom Street) - line (Road) - surface (city) of to achieve screen control, light control, collection, linkage unity.