LIMEX

VARIABLE MESSAGE SIGNS

GENERAL

LIMEX is a complete family of LED-based traffic information systems designed for intelligent transportation applications. The product line includes full-matrix VMS displays, modular CUBILED signs, and Doppler radar speed warning systems—all engineered for high visibility, low maintenance, and long-term durability under harsh outdoor conditions.

LIMEX systems are built to comply with **EN12966:2014** standards for optical performance, ensuring consistent readability in all weather and lighting environments, from direct sunlight to night-time operation. Designed for reliability, LIMEX incorporates advanced diagnostics, environmental protection, and smart control features, making it suitable for highways, tunnels, city centers, construction zones, and sensitive safety areas.

HIGHLIGHTS

- Compliant with EN12966:2014 optical and performance standards
- High-brightness LED technology ensuring excellent visibility at long distances
- Fully protected against water, dust, pollution, and UV radiation
- Reliable operation in extreme outdoor conditions (–30 °C to +50 °C, up to 95% humidity)
- Built-in self-diagnostic system for continuous monitoring and fault detection
- Automatic brightness control for optimal visibility during day and night
- Modular system design enabling scalable and flexible configurations
- Long LED lifespan with low power consumption
- Maintenance-free construction using durable, outdoor-rated materials
- Suitable for highways, tunnels, city areas, construction zones, and safety-critical sites

1- LIMEX VMS LED SIGNS

Parameter	Specification
Product Series	Variable Message Sign (VMS)
Compliance Standard	EN12966:2014
LED Technology	High-brightness outdoor LEDs
Visibility	Long-distance, high contrast
Brightness Control	Automatic, 0–100% (255 levels)
Environmental Protection	Waterproof, dustproof, pollution-proof, UV protected
Operating Temperature	–30 °C to +50 °C
Humidity	Up to 95%
Diagnostics	Integrated self-diagnostic system
Lifetime	Long LED lifespan with low power consumption
Mounting	Roadside, gantry, tunnel, or pole mounting
Use Cases	Traffic messages, warnings, speed limits, weather info

2- LIMEX CUBILED SIGNS

Parameter	Specification
Product Series	Modular LED Cube Sign LIMEX-CU-XX
Standard	EN12966:2014
Supply Voltage	110–230 VAC, 400 VAC, 12–48 VDC
Temperature Range	40 °C to +60 °C
IP Rating	IP55
Architecture	Plug-and-play, scalable modular design
Housing	High-durability modular frames
LED Source	Top-quality LEDs
Reusability	Modules can be relocated or repurposed
Application Areas	Directional signs, compact VMS, modular displays

3- LIMEX DOPPLER RADAR SPEED WARNING SYSTEM

Parameter	Specification
Product Series	Doppler Radar Speed Display
Standard	EN12966-certified radar display
Supply Voltage	110–230 VAC, 400 VAC, 12–48 VDC
Temperature Range	40 °C to +60 °C
IP Rating	IP55
Display Type	Mono-color / full-matrix amber LED
Display Technology	DSP-based (Digital Signal Processing)
LED Performance	High optical output with low power consumption
Measurement Accuracy	≤1% speed error
Brightness Control	Automatically adjustable (255 levels)
Optical Classes	EN12966 L3 / R2
Viewing Angle	15° (EN12866 B2)
Housing	Maintenance-free aluminum
Use Cases	Speed warning, school zones, traffic calming