



Knuckle Boom Crane Load Moment Indicator System

Smart Safety Control · Precise Load Management

The Intelligent Load Moment Limiter System is a smart safety solution for knuckle boom cranes, suitable for truck-mounted, crawler, marine, and spider cranes. With real-time monitoring, precise load moment calculation, intelligent warnings, and motion protection, the system improves safety and stability in complex operations. It also supports remote assistance, data recording, and intelligent upgrades, helping OEMs and customers reduce risks, improve efficiency, and accelerate equipment digitalization.



High-Precision Control
±5% Accuracy



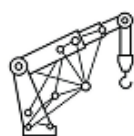
Real-Time Load &
Radius Monitoring



Smart Overload
Warning & Protection



Accurate Moment Calculation
Fewer False Alarms



Multi-Sensor
Fusion Monitoring



Reliable Operation
from -25°C to +70°C



Why Choose Us

Dimension	Traditional Solution	Our System	Advantages
Load Display	✗	✓	Clearer load status
Motion Monitoring	✗	✓	Improved safety
Crane Parameters	✗	✓	Clear operating status
Self-Diagnostics	✗	✓	Easier maintenance

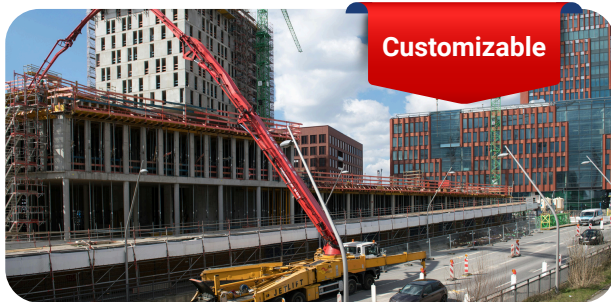
Compatible Equipment



Truck-Mounted Cranes



Aerial Work Platforms

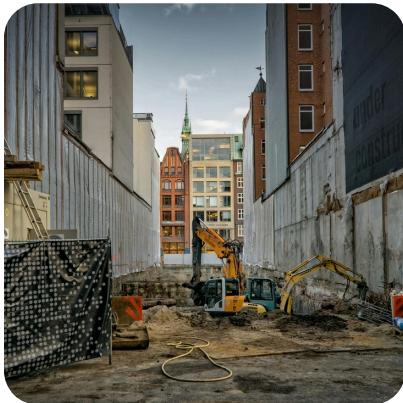


Concrete Pump Trucks



Forklifts

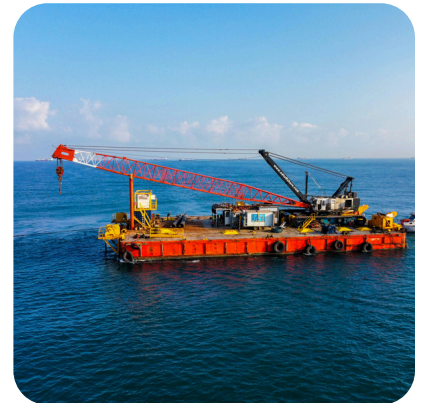
Application Scenarios



Urban Lifting Operations



Port & Dock Operations



Marine & Offshore Operations



Power & Telecommunications Maintenance



Lifting in Complex Terrain



Industrial Equipment Installation

SPECS

System Accuracy $\pm 5\%$ (Full Range)

Supply Voltage 10-32V DC

Protection Rating IP65

Operating Temperature $-25^{\circ}\text{C} - +70^{\circ}\text{C}$

Storage Temperature $-40^{\circ}\text{C} - +85^{\circ}\text{C}$

Communication Protocol CAN

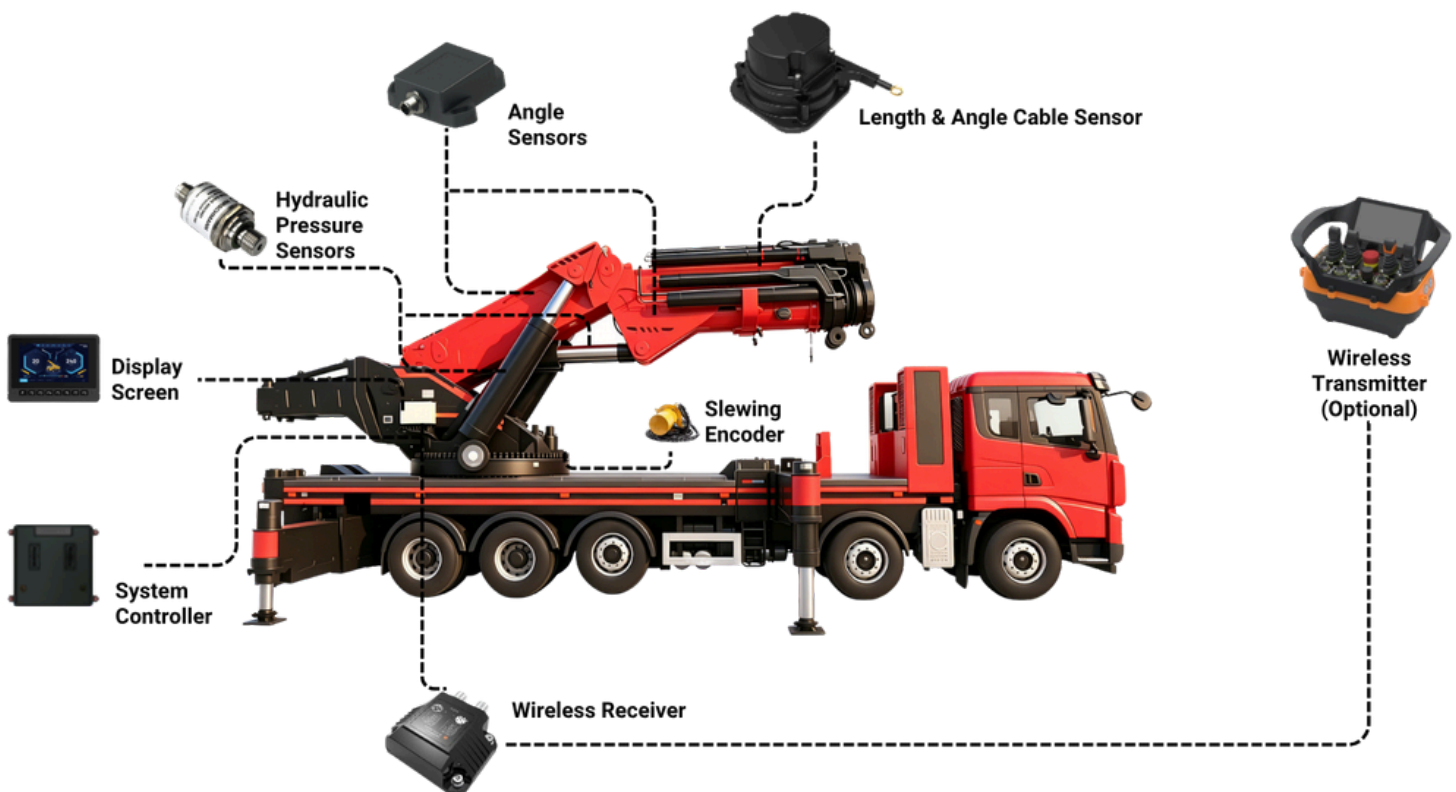
Display 7" TFT-LCD

Resolution 800*480

Brightness $\geq 600\text{cd/m}^2$

Development Environment CODESYS

Processor Quad-Core A53 64-bit, 2.0 GHz



Email: sales01@sinelynx.com

