



INSTRUMENT LANDING SYSTEM

Developed in cooperation with the FAA and certified for Category I, II and III operation, the Series 2100 Instrument Landing System (ILS) exceeds industry standards for reliability and performance, and is the ILS of choice of the United States Air Force.

PRODUCT OVERVIEW

The Series 2100 Instrument Landing System (ILS) provides Category I, II and III performance in the most versatile and technically advanced system in the industry today. Available in multiple configurations and with a wide variety of antenna arrays, the 2100 is field upgradeable from Category I to Categories II and III to meet changing operating conditions.

The 2100 provides user-friendly Windows™ based interface, integrates the latest technical features and reduces system component content. The 2100 combines ease-of-operation and maintenance with increased performance and

significantly reduced installation, maintenance and logistics costs, with software designed and qualified to rigorous RTCA DO-178 Level B/278 standards.

ADDITIONAL FEATURES INCLUDE

- Dual and single equipment configurations
- Dual and single frequency configurations
- 8, 14, 16, and 20 element LPD antenna arrays
- Null reference, capture effect, sideband reference and end-fire glide slope configurations
- Comprehensive RMM and PMDT (Portable Maintenance Data Terminal)
 - Remote certification/control
 - Automatic fault diagnostics
 - Monitoring and recording
- Seamless Category I - III upgradeability
- ILS equipment is U.S. Federal Aviation Administration certified, meets or exceeds ICAO Annex 10 recommendations and has been commissioned in hundreds of locations worldwide.

Localizer Specifications

Mechanical

Weight - cabinet	551 lbs (250 kg)
Dimensions - cabinet (W x D x H)	24" x 24" x 72" 610mm x 610mm x 1830mm

Environmental

Temperature	Indoor equipment: -10°C to +55°C, Outdoor: -50°C to +70°C
Relative humidity	Indoor equipment up to 90% noncondensing, Outdoor equipment up to 100%
Altitude	0 to 4573m (0 to 15,000 ft) MSL.
Duty cycle	Continuous, unattended
Wind	Up to 100mph (161km/hr), with 0.5" (12.7mm) ice

Electrical

Primary power	90-264V AC \pm 15%, 47-63Hz single phase
Standby power	24V DC no-break battery back-up system, minimum 6hr operation
Frequency stability	\pm 0.0005%
Power output	20W maximum (adjustable)
Frequency range	108 - 111.975MHz
Frequency control	Synthesizer
Modulation tones	90/150HZ navigation, 1020HZ identification
Coverage	Per ICAO Annex 10
Monitors	Dual Parallel AND/OR configuration, monitors standby transmitter and built-in test generator for monitor certification
RMM	Comprehensive; includes alarms and maintenance alerts with support for twisted pair copper, POTS Modems, RF Modems and IP/Ethernet

Antennas

Configurations	8, 14, 16 or 20 element antenna array with integral monitoring and optional near and far field monitoring
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Glideslope Specifications

Mechanical

Weight - cabinet	551 lbs (250 kg)
Dimensions - cabinet (W x D x H)	24" x 24" x 72" 610mm x 610mm x 1830mm

Environmental

Temperature	Indoor equipment: -10°C to +55°C, Outdoor: -50°C to +70°C
Relative humidity	Indoor equipment up to 95% noncondensing, Outdoor equipment up to 100%
Altitude	0 to 4573m (0 to 15,000 ft) MSL.
Duty cycle	Continuous, unattended
Wind	Up to 100mph (161km/hr)

Electrical

Primary power	90-264V AC \pm 15%, 47-63Hz, single phase
Standby power	24V DC no-break battery back-up system, minimum 6 hr. operation
Frequency stability	\pm 0.0005%
Power output	5W maximum (adjustable)
Frequency range	328.6 - 335.4MHz
Frequency control	Synthesizer
Modulation tones	90/150Hz navigation
Glide angle	2 to 4 degrees
Coverage	Per ICAO Annex 10
Equipment	BITE with fault diagnostics to LRU capable of being performed from a remote location
Monitors	Dual parallel AND/OR configuration, monitors standby transmitter and built-in test generator for monitor certification
RMM	Comprehensive, includes alarms and maintenance alerts with support for twisted pair copper, POTS Modems, RF Modems and IP/Ethernet

Antennas

Configurations	Null-Reference, Side-Band Reference, Capture-Effect (M-array), and Non-Imaging (Watts End Fire)
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Marker Beacon Specifications

Mechanical

Weight - cabinet	50lbs (22.7kg)
Dimensions - cabinet (W x D x H)	21.25 x 10" x 28.25" 54cm x 25.4cm x 71.8cm

Environmental

Temperature	-50°C to +70°C
Relative humidity	0 to 100%
Altitude	0 to 4573m (0 to 15,000 ft) MSL.
Duty cycle	Continuous, unattended
Wind	Up to 100mph (161km/hr)

Electrical

Primary power	120-240V AC \pm 15%, 47-63Hz, single phase
Standby power	12V DC no-break battery back-up system
Operating frequency	75MHz
Frequency stability	\pm 0.0005%
Power output	2.5W maximum (adjustable)
Built in measuring equipment	Audio Frequency Counter, Digital Voltmeter, Transmitter power meter, VSWR meter
RMM	Comprehensive data to include alarms.
Modulation capability	0% to 97% adjustable
Polarization	Horizontal
Keying for	Outer Marker Middle Marker Inner Marker Fan Marker
Coverage	Per ICAO Annex 10



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