



MODEL 2137 Portable ILS Receiver

The Model 2137 combines highly accurate, reliable performance with low maintenance and ease of use.

PRODUCT OVERVIEW

The SELEX Model 2137 Portable ILS Receiver is a lightweight, rugged unit specifically designed for installation and maintenance of Instrument Landing System facilities. Standard equipment for the US Federal Aviation Administration, it features high accuracy, rock-solid stability, and exceptional ease of use. The unit operates over a wide range of environmental conditions and will run continuously for 12 hours on its internal rechargeable batteries. No special battery pack is required. Standard, easily obtained "D" type nickel-cadmium cells are used. In the event of an emergency, the batteries can be replaced with any non-rechargeable "D" cell for continued operation. On a busy runway, ease of use is perhaps the most desirable feature of the Model 2137 PIR. When turned on, it is instantly ready for ILS measurements between aircraft landings and take-offs. All operation is controlled with the use of five dedicated controls. Two are used to set the ILS frequency. One is used to select the mode of operation (OFF, NORMAL, AUDIO, CALIBRATE). The fourth selects the type of measurement (SDM, DDM, 90 Hz % MOD, 150 Hz % MOD, 1020 Hz % MOD, RF LEVEL, BATTERY LIFE), and the fifth is a rotary control used to adjust the audio input level. Adding to its ease of use, the Model 2137 is a highly transportable and self-contained unit that is small enough to fit

in an airline overhead compartment. The battery charger is built-in and automatically senses the line input voltage and adjusts itself accordingly. The localizer and glideslope antennas are stored within the cover of the unit along with the charger cord. There are no external pieces to damage or misplace. With a recommended calibration interval of 4 years, the Model 2137 PIR ensures high availability to confirm the continued safe operation of the precision approach equipment between periodic flight checks, and low life cycle costs due to extended calibration periodicity.

ADDITIONAL FEATURES INCLUDE:

- LCD backlight, always on
- US FAA National Stock Number: 0056-00-480-038

SPECIFICATIONS

MECHANICAL

Weight: (receiver and batteries only): 11.25 lbs (5.10 kg)

Weight (with antenna and unipod): 14.00 lbs (6.35 kg)

Dimensions: 4.6"H x 10.3"W x 9.7"D 11.68cm H x 26.16cm W x 24.64cm D

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ENVIRONMENTAL

Operating Temperature: -20°C to + 55°C

Relative Humidity: 0% to 95%

ELECTRICAL

Measurements: DDM, SDM, Percent Modulation (90, 150, and 1020 Hz), RF Level (dBm)

Operating Frequencies:

Localizer: 108.10 to 111.95 MHz (40 channels)

Glideslope: 329.15 to 335.00 MHz (40 channels)

Frequency Stability: $\pm 0.002\%$

RF Signal Level:

Localizer: 0 dBm to -87 dBm

Glideslope: 0 dBm to -83 dBm

Maximum Input: Receiver will withstand continuous 1 volt RF input without damage

Audio Signal Level: 40 mV to 10 V peak-to-peak

Internal Calibrator Accuracy: Centering ± 0.0002 DDM Deviation ± 0.0005 DDM

Primary Power: 6 internal "D" nickel-cadmium rechargeable cells

Built-In Recharger: 90-264 VAC, 47-63 Hz.

