

# LRC-M1

CattronControl™



## MID-SIZED CONTROLLER, STANDARD AND CUSTOMIZABLE

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### HIGHLIGHTS

- Wide range of control options including:
    - up to two stepped or stepless joysticks
    - up to three full-size paddles
    - up to six mini paddles
    - up to 22 auxiliary switches
    - horn/STOP/ON-OFF
  - System configuration via a secure wireless Transkey (RFID) for simplification of spares management
  - Customer-specific layout with a wide range of control elements
  - Approvals and frequencies for worldwide deployment
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### FEATURES

- Used for the control of cranes and machines with digital or analog drive systems
  - Graphic LCD and LEDs for status and feedback
  - High safety level through redundant hardware and software architecture
  - IP65 housing made of impact-resistant nylon for tough indoor or outdoor environments, excellent chemical and oil resistivity and superior mechanical strength
  - Compatible with a number of machine control units featuring various interface options
  - Optional force/angle safety feature
  - Tandem and multi-transmitter and/or receiver operation
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### APPLICATIONS

This tough mid-size, and highly configurable controller is ideal for operation in almost any application.

- Overhead Cranes
  - Heavy Machinery
  - Ship Loaders
  - Metal Fabrication
  - Amusement Parks
  - Lifting Equipment
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### COMPLIANCE

- EN 13849-1 Category 3 PL d
  - EN 60204-1
  - EN 60204-32
  - CE Compliant
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**TECHNICAL DATA AND SPECIFICATIONS**

ELECTRONIC DATA	
<b>Commands</b>	Up to 34 digital commands + STOP Up to 8 analog commands
<b>Digital circuitry</b>	Dual-processor technology
<b>System addresses</b>	24 bits = 16 million addresses
<b>Energy-saving mode</b>	Automatic shutdown (configurable 0-30 minutes)
<b>Supply voltage</b>	Rechargeable battery, NiMH 4.8V/1600 mAh
<b>Autonomy</b>	> 12 h at 100% uninterrupted use

OPERATION AND INDICATION	
<b>Layout</b>	Standard 2 joysticks or fully customizable
<b>Control elements (typical)</b>	2 joysticks, stepped or stepless, start, horn, stop, keyswitch, push buttons, toggle switches, rotary switches, etc.
<b>Transkey™</b>	System configuration, address and RF channel setting
<b>Buzzer</b>	Low voltage indication and tilt
<b>Graphics LCD</b>	128 x 32 dots, backlight white (graphic LCD optional)
<b>LED</b>	1 status LED 4 multi-function LEDs

USA: +1.234.806.0018  
Systems-US-Sales@lairdtech.com

Europe: +49.2151.4795.0  
Systems-EU-Sales@lairdtech.com

Asia: +86.21.3120.0188  
Systems-CN-Sales@lairdtech.com

Latin America: +55.19.3518.7030  
Systems-BR-Sales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

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MECHANICAL DATA	
<b>Weight</b>	Approx. 1.6 kg (3.5 lbs)
<b>Dimensions L x W x H</b>	274 x 207 x 160 mm (10.8 x 8.2 x 6.3 inches)
<b>Housing</b>	Nylon, standard color red/gray  IP65, suitable for outdoor use
<b>Operating temperature</b>	-20° to +60° C (-4° to +140° F)
<b>Vibration and shock</b>	Vibration/impact and drop tested to 1m on concrete

RF	
<b>Frequency range</b>	335 MHz 406-419 MHz 433-434 MHz 447-473 MHz 869 MHz 902-927 MHz  Other frequencies onrequest
<b>Transmission speed</b>	4.8 to 20 kbit/s
<b>Transmitter output power</b>	10-500 mW with various modules (within permitted limits)
<b>Modulation</b>	FM
<b>RF channel spacing</b>	12.5 kHz; 25 kHz and others
<b>Antenna</b>	Internal

ACCESSORIES	
<b>Batteries</b>	2 rechargeable batteries, NiMH, 4.8 V/1600 mAh
<b>Battery charger</b>	Processor-controlled charger with changing system on the primary side for international use 100-240 V AC, 50-60 Hz