REMOTE CONTROL SOLUTIONS FOR INDUSTRIAL APPLICATIONS

Cattron Group International™ has assembled the most comprehensive collection of radio remote control brands for cranes, locomotives, material handling equipment, mining machinery, mobile equipment, ship loaders, agricultural machinery, and virtually any equipment where the operator can be moved to a safer, more efficient location.
Cattron Group International™ is a leading manufacturer of remote control products and aftermarket services for industrial, mining, commercial, mobile, railroad and other industrial markets, globally. In addition to its North American operations with two locations in the USA (Sharpsville, PA & Escondido, CA) and Canada (Georgetown, ON & Montreal, QC), Cattron has operations in Europe (Germany & UK), South Africa (Johannesburg), and Brazil (Sao Paulo); supported by an extensive sales and distribution network throughout North and South America, Asia, Africa and Australia.

Through a process of organic growth and acquisitions, the Cattron Group has assembled the most comprehensive collection of radio remote control brands. Anywhere the operator of a machine can be moved to a safer, more efficient location, Portable Radio Remote Controls have helped prevent serious injury while increasing efficiency and productivity. The Cattron Group is leading the way with advanced technological innovation, experience and quality backed by an unparalleled worldwide service organization.

Most industrial applications are built around one of our core brands, Cattron®, Remtron® or Theimeg™.

The Cattron® brand of engineered products are designed primarily for electric overhead cranes, locomotives, material handling equipment, mining machinery, ship loaders, and agricultural machinery.

The Remtron® brand of industrial remote controls is used in both material handling (electric overhead cranes) and commercial industries. In addition to industrial radio remote controls for overhead cranes, the Remtron® brand products are also used for mobile equipment, commercial and construction applications such as concrete pumps, conveyors, winches, booms and others.

The Cattron Group and global affiliates service a customer base of approximately 6,000 companies with over 125,000 installed systems; supported by a network of partners (suppliers, sales, distribution and service representatives) in 34 countries. The Cattron Group has provided remote control solutions to industry since 1946.
CRANE CONTROLS

Standard Crane & Hoist Systems

The PATRIOT®
Economical, pre-engineered systems .......................................................... 4-5

Remtron® Brand OCU (Transmitters)
Customizable to your application ................................................................. 6

Cattron® Brand OCU (Transmitters)
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Cattron®/Remtron® Brand MCU (Receivers)
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GENERAL INDUSTRIAL CONTROLS

OCU (Transmitters)/MCU (Receivers)
Great for Conveyors, Pumps, Gates, SafeTStop .......................................... 9

LOCOMOTIVE CONTROLS

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OPTIONS AND ACCESSORIES

Vest Harness, Safe-T-Range®, Wireless Control Systems
Programmer, Leather Holsters ...................................................................... 11
The most affordable, high quality remote crane controls available from the Remtron® brand. 100% American made and supported, the Patriot® is offered in four models, all of which use Remtron’s proven Command Pro® technology. All Patriot® systems are shipped ready to install with a six foot long wiring harness and include our exclusive extruded aluminum receiver enclosure. Best of all, the Patriot® series transmitters come with a One Year Unconditional Warranty!

- MADE & SUPPORTED IN THE USA
- IP66/67 OCU (TRANSmitters)
- UNCONDITIONAL WARRANTY
- LOW COST OF OWNERSHIP
- SUPERIOR FACTORY SUPPORT
- BUILT-IN 6 FT. WIRE HARNESS
Patriot System Matrix

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<th>Control Scheme</th>
<th>Model</th>
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25S08A/25S10A
DESIGNED FOR
3 MOTION/1 SPEED
2 MOTION/2 SPEED

25S11A/25S15A
DESIGNED FOR
3 MOTION/2 SPEED
3 MOTION/2 SPEED
W/ A/B/both

vectran™
“Gorilla Tough” is not just our slogan, it’s our promise!

Built to perform and survive in the tough environments of steel and manufacturing plants, the Remtron® brand flagship Command Pro product line sets the standard for reliability and ruggedness. Yet, inside each transmitter you’ll find a sophisticated electronic system that provides a higher level of responsiveness, versatility and safety.

The Command Pro line is available in various models offering different levels of functionality to meet the specific needs of different size facilities and types of applications.

**REMTRON BRAND BELLYBOX OPERATOR CONTROL UNIT (OCU) FEATURES**

- Low power consumption for long battery life – Typically more than 100 hrs. on AA batteries
- Rugged cases hold up to industrial demands
- Easy-to-use “Push-to-Operate” (PTO) bar optional
- Self-test LED provides transmitter and battery status
- Internal antenna prevents breakage
- Optional UL 913 rating for classified environments

**REMTRON BRAND HANDHELD OPERATOR CONTROL UNIT (OCU) FEATURES**

- Self-test LED provides transmitter and battery status
- Rugged cases are reliable under industrial demands
- Leather holster for added protection
- Long life switches with tactile-feedback
- Optional UL 913 rating for classified environments
- IP66/67 rating for water/dust-tight operations (21T10A, 21T14A and 21T18A)
Designed for durable, reliable and convenient operations, the Cattron® brand T34C and Paddle Controller are designed for indoor/outdoor use. Both the T34C and Paddle Controller can be used with most Cattron® brand AT or MP series receiver/decoder units as well as most systems as either a replacement or spare controller. In addition to cranes, the Paddle Controller can also be used for railroad, military, and other industrial applications.

The Cattron® brand handheld controllers give operators of heavy equipment the best of both worlds: a small, hand-held, controller with a tough, metal housing. The MKU series and Toggle handheld controllers are ideal when a lightweight handheld control is needed. Ideal for both indoor and outdoor applications, the MKU and Toggle Controller give the operator a reliable and extremely durable controller.

**PADDLE CONTROL OCU**

**T34C/PADDLE CONTROL OCU (TRANSMITTER) FEATURES**
- For use with most Cattron® licensed AT or MP Series Systems
- Power-on self-diagnostics
- Two stage LED battery indicator with audible beep
- Long battery life; full voltage regulation over life of the battery
- Rugged, epoxy-coated extruded aluminum case (Paddle Control)
- Rubberized metal end caps to absorb heavy shocks (Paddle Control)
- Full-length “Push-to-Operate” (PTO) safety bar
- High grade, lightweight aluminum case (T34C)

**MKU FEATURES**
- Upgraded existing single/dual-pressure keypad controller
- Transkey for added security and safety
- Durable housing made of extruded aluminum
- Rubberized end caps to absorb heavy shocks
- Hoist Selection LEDs
- Combined switch/encoder board increase controller reliability

**TOGGLE FEATURES**
- Customized layout with custom-engraved nameplates
- Power-on self-diagnostics
- Two stage LED battery indicator with audible beep
- Long battery life; full voltage regulation over life of the battery
- Epoxy-coated aluminum housing with Lifetime Warranty
- Rubberized end caps & switch guards to absorb heavy shocks
- Large “Push-to-Operate” (PTO) safety bar
MACHINE CONTROL UNITS (RECEIVERS)

Customizable to Any Application

REMTRON® BRAND MCU
(RECEIVER) FEATURES

- NEMA 4 package, easy to install
- Compatible with CONTACTOR or VFD systems
- Easy “screwdriver” maintenance
- Transfer Switch (excludes R08)
- FCC/UL 508 Approved
- Receiver remote antenna kit
- First Come-First Serve (FCFS) and Pitch & Catch (Control one receiver with up to six transmitters [P&C R22 and up])
- Optional NEMA 7/8 enclosure for classified environments

CATTRON® BRAND MP96/AT MCU
(RECEIVER) FEATURES

- Two line backlit system status display showing normal and fault conditions
- Customizable data-log and real time computer monitor capability
- Data collection via remote control or externally monitored system inputs
- Extensive self-diagnostics and diagnostic software for PC available
- Single point status display shows normal and fault condition
- Plug-in micro-controller with e-prom allows quick “personality” changes (reduces need for spare controllers)
- FCC/DOC/EC non-licensed and licensed systems available
Help increase safety and reduce accidents with the Remtron® brand SafeTStop™. By giving the operators/supervisors the ability to be mobile, they are able to control and stop equipment from virtually any location safely. Along with 60 millisecond response time, the operator/supervisor can have direct control over equipment through rocker switches that provide 7 functions in addition to the ON/Alarm and STS™ switch. The Remtron® brand STS™ systems are available with optional UL913 certifications and select systems are IP66/67 rated for the harshest conditions. Whether you are moving people or equipment, the Remtron® brand STS™ gives you total control in any environment.

**Applications SafeTstop™**
- Conveyor Applications
- Assembly Lines
- Amusement Parks
- Entertainment Industry
- Industrial Machinery
- Off Shore Petrochemical

The General Purpose Command Pro product line is suited for rugged, industrial applications where only a few functions are needed in a heavy duty radio. This product series is microprocessor-based and can be programmed to perform a multitude of tasks involving logic, momentary and latched relay functions.

**OUC (TRANSMITTER) FEATURES**
- Internal antenna prevents breakage
- Leather holster for added protection
- Test LED provides transmitter and battery status
- Low power consumption for long battery life
- Rugged case made from advanced composites holds up to industrial and commercial demands

**MCU (RECEIVER) FEATURES**
- NEMA 4 enclosure
- Easy “screwdriver maintenance”; no extra test equipment
- Two-piece terminal strip simplifies installation and service
- Status LED indicators provide easy in-field fault isolation and diagnostics
- Choice of 12 VDC, 24 VDC, 120 VAC or 240 VAC power supplies
- Optional UL 913 rating for classified environments
LOCOMOTIVE REMOTE CONTROLS

RCL (Remote Controlled Locomotive) systems improve profitability and productivity while adding safety to your locomotive operations. The use of remote controls allow one or more operators to move the train while viewing the operations from the most efficient vantage point.

The Cattron Group continues to be the recognized technology leader in the design and implementation of RCL (Remote Controlled Locomotive) systems. With more than 60 years of radio frequency experience and nearly 10,000 RCL installations worldwide, The Cattron Group is considered the worldwide leader in providing RCL systems.

**MP96RCL**
- Standard throttle/brake locomotive system
- Configurable with lightweight industrial, toggle or paddle OCU
- Pitch and Catch - safely transfer control between operators
- Range Limiting, Close Start and Digital Talkback® functions
- Extensive data-logging with optional external event monitoring
- "Watch-Dog" timers ensure no motion is carried out without an OCU command
- Optional Event Recorder - Monitor both radio and locomotive functions

**MP96 QC (Quick Connect)**
- Interfaces with locomotives equipped with American Association of Railroads (AAR) standard multiple unit (MU) connections
- Enclosures easily transferable from locomotive to locomotive
- STS™ (Synchronized Time Sharing) with GPS timing
- Available Infrared OCU Identification and Linking
- Pitch & Catch
- Digital Talkback® with "InfoLink"
- Available PC compatible diagnostic software

**ACCUSPEED™**
- Lightweight Ergonomic green OCU
- Synchronized Time Sharing(STS™)
  - Up to 10 systems on one frequency
- Digital Talkback® with "InfoLink"
  - Two way digital communication with visual feedback
- Pitch and Catch - safely transfer control between operators
- Electronic Positioning Detection(EPD)
  - Limit operational area of remote control operations
- Speed control automatically adjusts throttle and train brakes
  - Limits locomotive speed

**Digital Event Recorder**
- Used in conjunction with Accuspeed™ or MP96RCL locomotive remote control systems (utilizing STS™ protocol)
- Record and analyze both remote and locomotive data
- FRA Approved
- Monitor efficiency and re-construct accidents
- Over 200 channels and 96 hours of data collection/storage
Safe-T-Range® keeps the operator within a pre-determined distance from the crane, thus increasing safety in the work place. Using an advanced spot antenna design along with programmable logic, a Safe-T-Range® equipped MCU draws an electronic boundary around the crane. The system then safely stops and inhibits selected functions when the operator steps outside the boundary. This is all done without shutting down the main line.

**Laser Collision Avoidance System**

Your overhead equipment is too valuable to take chances. LCAS will protect cranes and hoists from contact with other equipment or end stops, both indoors and out. Using Retroreflective Class 1 Laser technology, the LCAS’s simple push-button setup permits you to program your system to activate the Alarm output and Stop functions at exactly the distance you require. With a range of 50 meters (164 feet), the LCAS can discriminate distance changes to a resolution of 3 mm (0.12 inches). LCAS protects stationary equipment as well. Its warning Alarm output will be activated if the unit detects a target moving within its set warning distance. That gives your operators time to take corrective action before a costly collision occurs.

**Electro-Hydraulic Brake Package for Cranes**

The Two-Step Electro-Hydraulic Brake Package makes converting an Electric Overhead Traveling (EOT) Crane from cab control to radio remote or pendant control easy. The conversion requires changing the operation of the bridge brake from a foot pedal to an electrically operated brake. With the Two-Step Electro-Hydraulic Brake Package, the existing foot pedal system remains in place, and there is no need to re-size or change the existing manual brake system. This eliminates the chance for error in sizing a totally new brake and potential damage to the mechanical structure of the crane during installation of the new brake.

**ERGONOMIC VEST HARNAS**

Increase safety and productivity while providing worker comfort with the Cattron Group International Ergonomic Vest Harness. The Ergonomic Vest Harness offers multiple sizes for optimum fit and a variety of adjustments for optimum weight distribution and worker comfort. It’s also rugged enough to stand up to daily use in harsh, industrial environments without sacrificing safety and comfort throughout the worker’s shift.

**LEATHER HOLSTER**

Rugged leather holsters and straps are included as standard equipment with all Remtron® brand 21 and 22 Series handheld OCU. The holsters make it convenient to operate the OCU while on your belt. Shoulder straps are included as standard equipment with all Remtron® brand 21 Series level style OCU.