



## Commercial Central Control Systems



Legendary innovation. Trusted reliability. Proven performance.

## What is Central Control?

Irrigation central control enables the programming, monitoring and operation of irrigation systems from a central location. Central control systems are designed to allow a user to control a single site or a set of sites from a single PC. Central control software allows the water manager to set up programming to automatically control satellite controllers or decoders that operate the irrigation valves. A central control system can monitor and adapt system operation and irrigation run times in response to conditions in the system or surrounding area (weather conditions, pipe breaks, etc). The system will also provide historical data to allow analysis and reporting of what ran when, how much water was used, and field problems.



## What are the Benefits?

**Water Savings** — Effective Evapotranspiration (ET) based system management can ultimately result in water savings of 30 – 50% per year, depending on current management practices. As an additional source of savings, pipeline breaks are automatically detected and isolated, preventing excessive water loss.

**A Healthier Landscape** — A central control system helps ensure your landscape receives the right amount of water. Good irrigation management can reduce leaching and run-off, and good plant health will reduce pest infestations and disease.

**Reduced Labor Costs** — By regulating all irrigation schedules from a single PC, the user no longer needs to make schedule adjustments at each controller. System shut-downs for maintenance occur quickly, allowing more effective use of time.

**Damage Prevention** — The system monitors current hydraulic conditions and takes action to prevent washout in the event of pipeline breaks. Detection and isolation of breaks occur in minutes instead of hours.

**Gas and Vehicle Wear Savings** — The user no longer has to drive around to all the controllers to make programming changes.

**Non-Irrigation System Controls** — Lighting, fountains, security gates, and pumps can all be controlled and monitored through the system.





## Key Features

### System and Environmental

**Monitoring**— System and environmental monitoring can incorporate many different sensors such as weather stations, flow meters, rain gauges, rain, wind and soil moisture sensors. These sensors monitor site conditions and report to the central computer. The central system automatically responds if any field conditions are outside the pre-defined limits set by the system operator.



**System Control**— A central control system allows all actions to be carried out easily and efficiently from a central location. Control actions such as adjusting watering or stopping irrigation in the event of rain or high wind can be automatically accomplished without requiring a technician to visit individual field controllers. A weather station can be connected to the system to precisely calculate the amount of water required based on climatic conditions. Rainfall intensity is monitored and compared to the soil infiltration rate to determine how much rain actually makes it to the plant root zone, thus optimizing irrigation.

**System Communications**— A central control system consists of a central computer, irrigation satellite controllers or decoders, sensors and weather stations, and a communication system to connect them all. Communications methods will depend on whether a computer is located on-site or remotely located, and can include hardwire, direct-connect, fiber-optics, telephone, GPRS/cellular, radio, Wi-Fi or Ethernet.

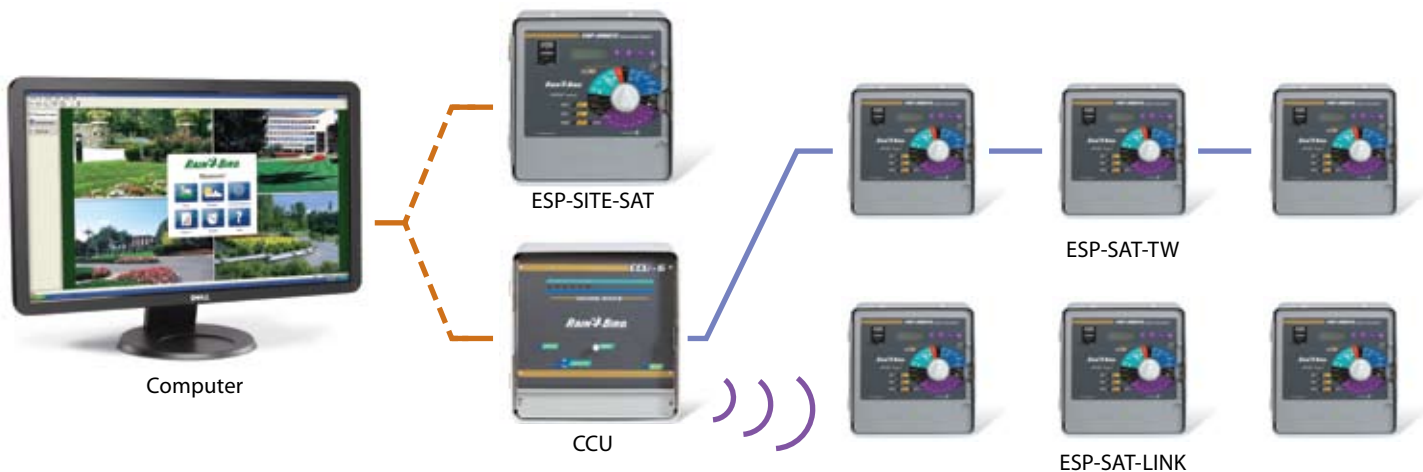


# Maxicom<sup>2</sup><sup>®</sup>

The standard for high-end single- and multi-site control.



If you're in charge of multi-site commercial or industrial irrigation, you know the challenges of water management. And, if you're like other irrigation professionals, you've wanted an "intelligent" irrigation system that lets you control multiple sites to your exact specifications. Maxicom<sup>2</sup><sup>®</sup> by Rain Bird makes irrigation management a simple, accurate, and labor-efficient task. It's a central control system that helps you achieve superior water management effectiveness—at up to hundreds of locations. Maxicom<sup>2</sup> is ideal for municipalities, school districts, universities, and park and recreation departments.



--- Local and/or Remote Site Communication

— PE Cable Communication

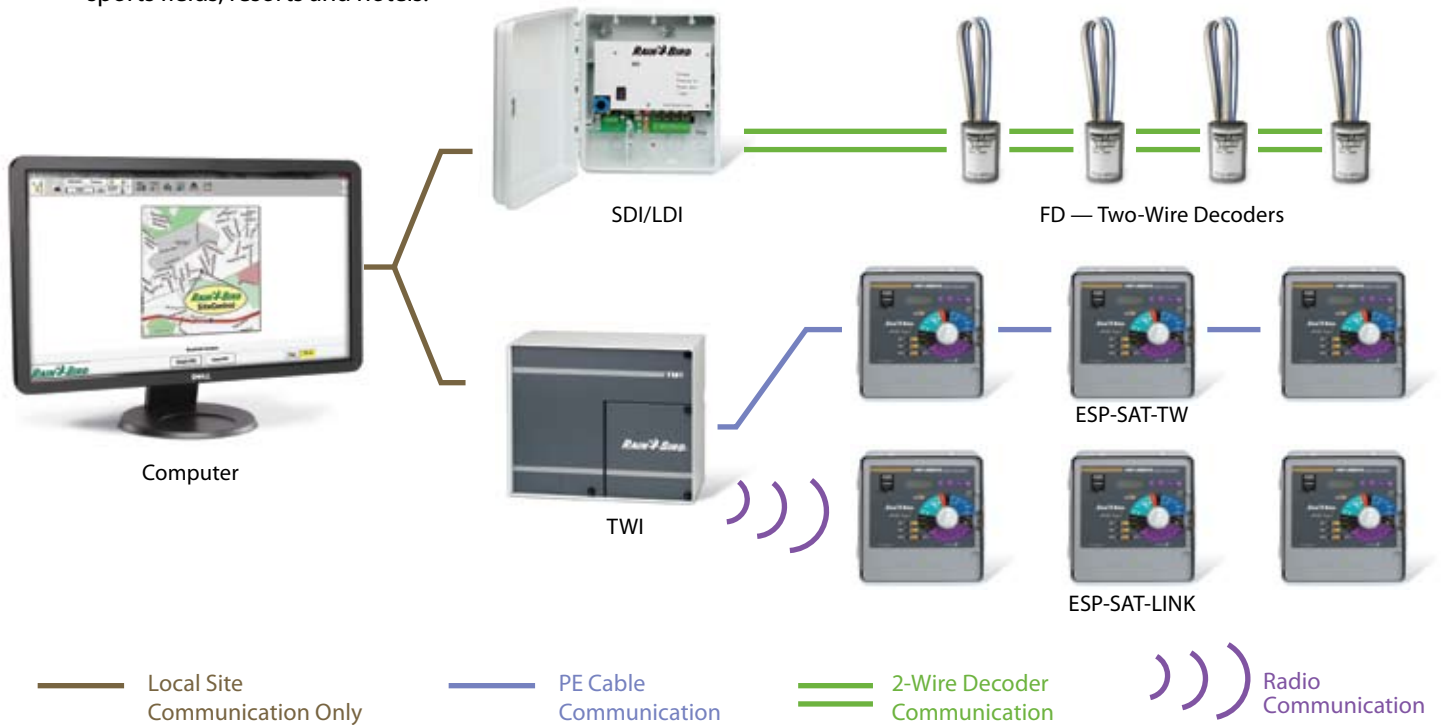
))) Radio Communication



# SiteControl

Powerful single-site control.

If you need powerful central control for a large, single contiguous site, SiteControl provides dynamic map-based control and real-time communication between the field and central computer. With customized site graphics, multiple mapping options and the ability to “see” the placement and real-time operation of individual controllers, decoders, valves and sprinklers, SiteControl makes controlling your landscape irrigation system fast and intuitive. Plus, the system is modular, allowing you to invest in only what you need and expand at a later date. Offering both satellite controller and two-wire decoder solutions, SiteControl provides unmatched features and expandability. It is ideal for college or corporate campuses, housing communities, cemeteries, sports fields, resorts and hotels.



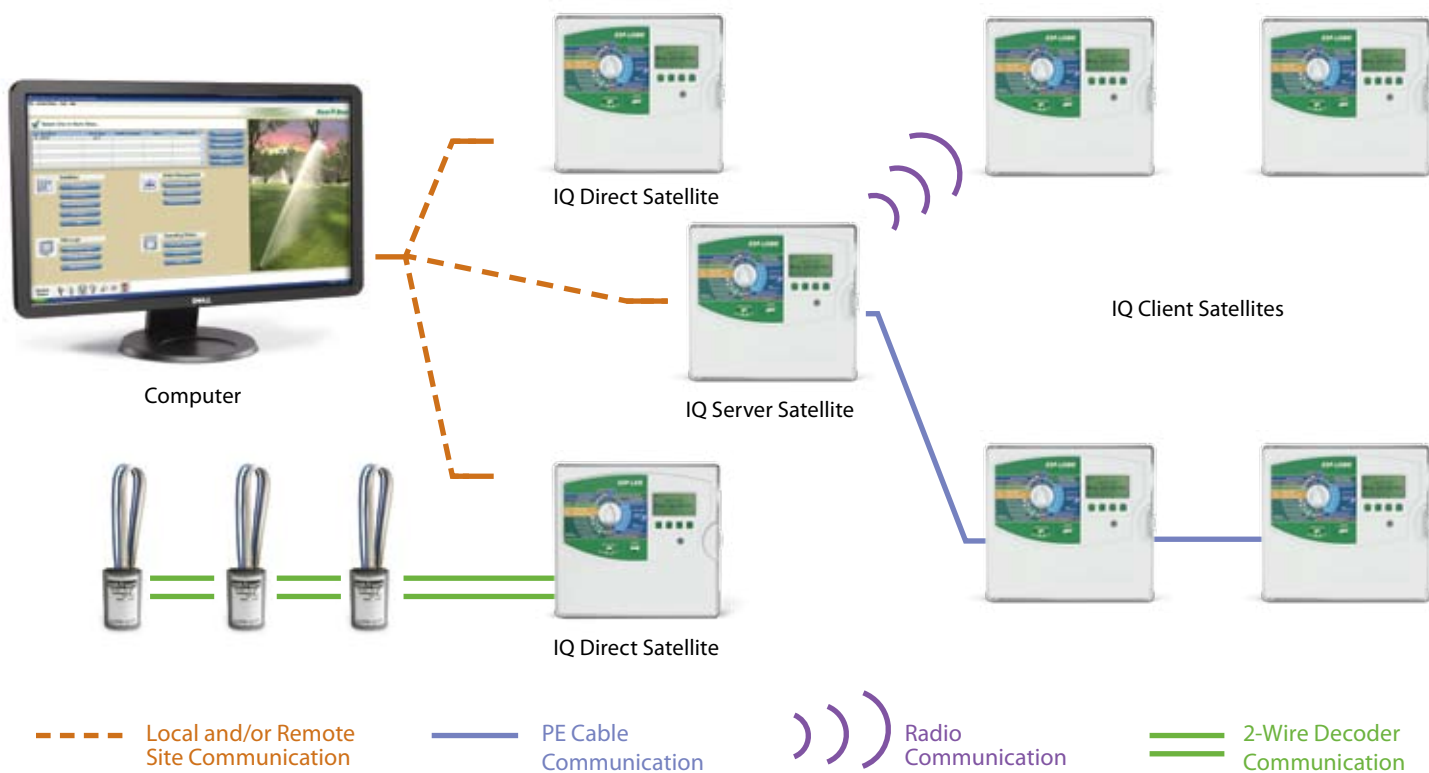


# IQ™ v2.0 Central Control

Versatile single- or multi-site control.



**For a system that can adapt to your changing needs,** choose the flexibility and performance of IQ™ v2.0 Central Control. IQ v2.0 is the perfect tool for the Landscape Maintenance Contractor, Property Manager or Public Agency managing one or more single- or multiple-controller sites. IQ v2.0 is a modular, simple to program and install, cost-effective system that can grow over time with your needs. From your computer terminal, do anything you could standing at the controller, including manual operation, program adjustment and even controlling the dial and switch settings. Letting you choose between traditionally wired and 2-wire decoder-based control configurations, IQ v2.0 also gives you the option of adding Advanced ET, Flow Sensing, Programming and Communications.



## Rain Bird® Central Control Comparison Chart

Features	Maxicom <sup>2</sup> ®	SiteControl	IQ™	
Type of System	Multi-site Satellite Control System	Single-site Satellite/Decoder Control System	Multi-site Satellite Control System	
Computer Included with Software	Yes	Yes	No	
Computer Programming	Yes	Yes	Yes	
24/7 System Monitoring	Yes	Yes	Yes	
24/7 Communication & Feedback	CCU to Satellite	Yes	Server to Client Satellite	
Local and/or Remote Site Control	Yes	Local Only	Yes	
Remote Site Telephone, Cellular, Radio, Fiber Optics, Ethernet Communication	All	No	All	
Automatic Remote Site Communication	Yes	Local Only	Yes	
Satellite Controllers or Decoders	ESP-SAT or ESP-SITE Satellites	ESP-SAT Satellites & FD Decoders	ESP-LXME and ESP-LXD Satellites	
Modular Station Capacity	No	No	LXME: 8-48	LXD: 50-200
Number of Sites per System	>200	1	999	
Number of Site Interfaces per System	>200	8	999	
Number of Satellites per System	>5,600	896	16,000+	
Number of Satellites per Site Interface	Up to 28 per CCU	Up to 112 per TWI	150+	
Number of Satellite Stations per Site	Up to 672 per CCU	Up to 21,504 per System	LXME: 7,200+	LXD: 30,000+
Number of Decoder Addresses per Site	N/A	Up to 4,000	30,000+	
Maximum Number of Simultaneous Stations per Site	112 Stations per CCU	3,584 per Site	LXME: 150+	LXD: 1,200+
Number of Weather (ET) Sources	16	4	100	
Spreadsheet Style Interface	Yes	Yes	Yes	
Interactive Map Interface	No	Yes	No	
GPS, CAD, SHP, BMP Import	BMP, PDF, JPG	Yes	N/A	
Valve Control — Stations or Decoders	Satellite Stations	Both — Hybrid System	Both — Hybrid System	
Program Adjustments by ET	Yes — Automatic	Yes — Automatic	Yes — Automatic	
Program Adjustments by Percentage	Yes	Yes	Yes	
Programming by Volume/Gallons	Yes	No	No	
Number of Programs	999 per CCU	100 Total per System	4 per Satellite	
Flow Management Capabilities	Yes	Yes	Yes	
Flow Monitoring/Recording Capabilities	Yes	Yes	Yes	
Estimated/Actual Water Usage Report	Both	Both	Both	
Sensor Input and Manual Bypass	Yes	Yes	Yes	
Number of Weather Sensor Inputs	Up to 56 per CCU	Up to 200 per System	1 per LXME	4 per LXD
Number of Flow Sensor Inputs	6 per CCU	Up to 200 per System	1 per LXME	5 per LXD
High-Flow Shut-Down	Mainline & Laterals	Mainline Only	Mainline & Laterals	
Low or Zero Flow Shut-Down	Mainline & Laterals	No	Mainline & Laterals	
Cycle + Soak™ by Station	Yes	Yes	Yes	
Water Window by Program/Schedule	Yes	Yes	Yes	
Event Recording (Station Operation)	Yes	Yes	Yes	
Alarms/Warnings	Yes	Yes	Yes	
Software Password or Log On Protection	Yes	N/A	Yes	
Remote Control Capabilities	Freedom System	Freedom System	LIMR Remote	
Projected Operation (Dry-Run) Utility	Yes	Yes	Yes	
GSP Support Plan Included with Software	Yes	Yes	Yes	

## The Intelligent Use of Water.™

LEADERSHIP • EDUCATION • PARTNERSHIPS • PRODUCTS

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At Rain Bird, we believe it is our responsibility to develop products and technologies that use water efficiently. Our commitment also extends to education, training and services for our industry and our communities.

The need to conserve water has never been greater. We want to do even more, and with your help, we can. Visit [www.rainbird.com](http://www.rainbird.com) for more information about The Intelligent Use of Water.™



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