

## **IQ4 Central Control Software**

### Modular Multi-Site Central Control

The IQ Platform offers state-of-the-art command and control features in an easy to learn and use interface. IQ provides advanced water management features saving money and time.

#### **Applications**

All IQ versions provide remote programming, management, and monitoring of ESP-LX Series Controllers from the computer in your office. IQ is the perfect irrigation control solution for parks departments, school districts, property managers, landscape maintenance contractors, and water managers. IQ can manage small single-controller sites as well as large multi-controller sites and supports both ESP-LX Series traditionally-wired and 2-wire controllers.

IQ-Cloud is a cloud based service allowing users to login and control their irrigation system from any internet connected device including desktop computers, tablet computers and mobile smartphones.

IQ-Cloud is ideal for organizations with multiple irrigation system administrators and/or users that require mobility. IQ-Cloud features the ability to use mobile devices providing quick access to all IQ4 features in an interface designed for touchscreen devices found in smartphones or tablets. Users are not restricted to an initial capacity and can add satellites at will. Internet access is required.

#### **IQ Platform Software Features**

- Compatible with ESP-LXME, ESP-LXIVM and ESP-LXMEF traditionally-wired and ESP-LXD two-wire decoder controllers
- Programming in seconds, minutes, and hours
- ET station run time adjustments by site
- Detailed logs and reports
- Automated satellite Synchronize & Retrieve Logs
- Satellite Two-Way Programming (changes made at the satellite can be viewed and accepted in the IQ4 software)
- Auto-Synchronization of data from IQ to Satellite
- Software uses Irrigation Association terminology and formulas
- IQ Global Weather Internet Service which provides local weather data including rain fall
- Retrieves minute-by-minute flow logs from flow sensor equipped ESP-LXMEF, ESP-LXIVM and ESP-LXD Satellite Controllers
- Flow Logs vs. Projected Flow Graphical Report (identifies which programs & stations where running at any point in time)
- User selectable languages include English, Spanish, French, German, Italian and Portuguese

Visit [www.rainbird.com/products/iq4](http://www.rainbird.com/products/iq4) to learn more about the features included in the IQ4 Platform.

#### **Additional 5-Satellite Capacity Upgrade (IQ-Desktop/Enterprise)**

- IQ Software satellite controller capacity can be upgraded in 5-satellite increments
- Additional capacity is added through a purchased software activation Keycode

#### **Recommended Computer Requirements for IQ-Desktop**

- Windows 10, Windows 8, Windows 7 Service Pack 1
- Intel i5-540M or equivalent processor
- 8 GB RAM (minimum)
- 10 GB available disk space
- 1024 x 768 pixel screen resolution
- Internet Access
- Chrome (recommended), Edge, or Firefox browser
- Network Connection (for Ethernet, WiFi, Cellular)
- Serial Port or USB to Serial Adapter (for Direct Connect and External Modem communication)



#### **How to Specify**

##### **IQ4 SOFTWARE**

**IQ4-Cloud:** IQ4 cloud-based software compatible with all Rain Bird ESP-LX controllers with NCC communications cartridges

## **IQ NCC Network Communication Cartridge**

Upgrades any ESP-LX Series Controller to an IQ Central Control Satellite Controller

### **Features**

- IQ is the perfect irrigation control solution for parks departments, school districts, property managers, landscape maintenance contractors and water managers. IQ can manage small single-controller sites as well as large multi-controller sites. IQ NCC cartridges are compatible with the ESP-LXME Controller with 1 to 48-station capacity, ESP-LXD Decoder Controller with 1 to 200-station capacity, ESP-LXIVM Controller with 1 to 60-station capacity and ESP-LXIVM Pro with 1 to 240 station capacity
- IQ NCC cartridges are initially configured through a setup wizard provided in the ESP-LX Series Controller IQ Settings dial position. Communication setting parameters are configured through the IQ software or the NCC Configurator Software designed for netbook/laptop use on the job site

### **Direct Satellites**

- Single controller sites would use an IQ NCC cartridge configured as a Direct satellite. A Direct satellite has an IQ central computer communication connection but no network connections to other satellites in the system

### **Server & Client Satellites**

- Multi-controller sites would use one IQ NCC cartridge configured as a Server satellite and the other NCC cartridges configured as Client satellites. The Server satellite has an IQ central computer communication connection and shares this communication connection with the Client satellites through high-speed data cable or radios. The communication connection between Server and Client satellites is called the IQNet™
- Satellites on a common IQNet can share weather sensors and master valves
- Server and Client satellites using high-speed data cable for IQNet communication require installation of an IQ CM Communication Module. Server and Client satellites using radio communication for IQNet communication require installation of an IQSSRADIO radio. Each cartridge kit includes cables to connect the NCC cartridge to connection module and/or radio

### **IQ NCC 4G Cellular Cartridge**

- Includes embedded 4G Cellular Data Modem with antenna connector
- Includes internal antenna for plastic controller enclosures (optional 4G external antenna available for metal case controller enclosures)
- Requires 4G Cellular data service plan purchased from Rain Bird with cellular service included
- Used for Direct or Server Satellite applications requiring wireless Cellular communication with the IQ central computer
- Available with 1st year of communication service included.
- 4G Cartridge with included communication service not offered in all areas

### **IQ NCC-EN Ethernet Cartridge**

- Includes embedded Ethernet Network Modem with RJ-45 port
- Includes RJ-45e patch cable (requires LAN network static IP address)

### **IQ NCC-RS RS232 Cartridge**

- Includes RS-232 Port for IQ Direct Cable or External Modem communication connection to the IQ central computer, and external modem cable (IQ Direct Cable provided with IQ Software Package)
- Used for Direct or Server Satellite applications requiring direct cable connection or external modem (radio or other 3rd-party device) communication with the IQ central computer, and for Client Satellite applications requiring IQNet high-speed data cable or radio communication with the Server Satellite

### **IQ FSCM-LXME Flow Smart Connection Module**

- Provides IQNet high-speed data cable connections for ESP-LXME Controller
- Includes Flow Smart Module and Base Module functions
- Replaces standard ESP-LXME Base Module

### **IQ CM-LXD Connection Module**

- Provides IQNet high-speed data cable connections for ESP-LXD Controller
- Installs in ESP-LXD 0 (zero) module slot

### **IQ SS-Radio Radio Modem**

- Provides IQNet wireless radio communication between Server and Client satellite controllers
- Can also be used with the IQ NCC-RS RS232 Cartridge for IQ central computer to Direct or Server satellite radio communication
- Includes power supply and external antenna (programming software and cable provided separately)



LX Series Cartridge Panel with  
IQ-NCC-RS Cartridge Installed