

## IQ4 Platform



The IQ4 offers state-of-the-art command and control features in a streamlined use interface. IQ4 provides advanced water management features saving money and time. The IQ4 Platform consists of two options: IQ4-Cloud and IQ4-Desktop.

### Applications

All IQ4 versions provide remote programming, management, and monitoring of ESP-LX Series Controllers from the computer in your office. IQ4 is the perfect irrigation control solution for parks departments, school districts, property managers, landscape maintenance contractors, and water managers. IQ4 can manage small single-controller sites as well as large multi-controller sites and supports both ESP-LX Series traditionally-wired and two-wire IVM controllers.

#### IQ4-Cloud

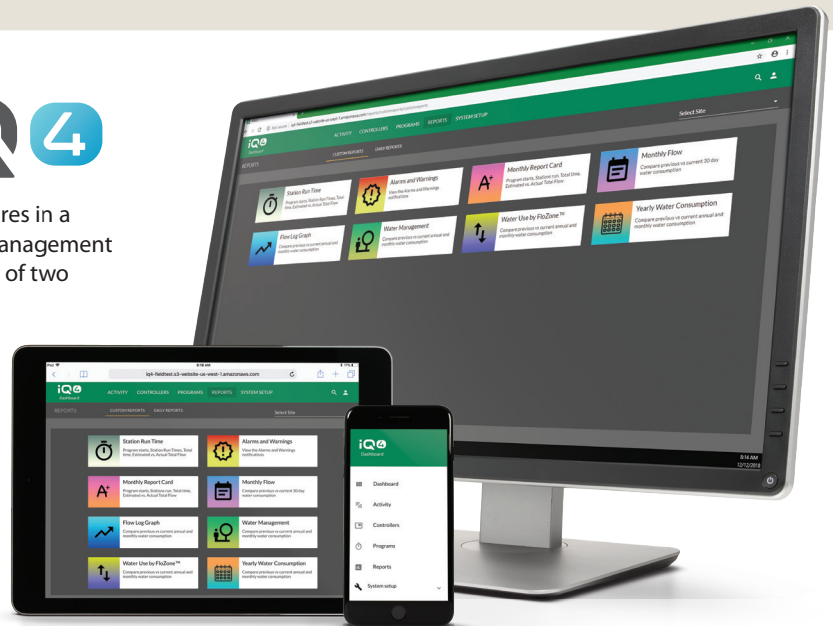
Cloud-enabled web-based service allowing users to login and control their irrigation system from any internet connected web-browser device. IQ4 is ideal for organizations with multiple irrigation system administrators and/or users that require mobility. Full features of IQ4 can be accessed on any touchscreen devices found in smartphones or tablets. Internet access is required.

#### IQ4-Desktop

Installed and operated on a single desktop computer. IQ4-Desktop is ideal for organizations with one administrator who can control the system from their computer in their office. The IQ-Desktop software package provides 5-satellite controller capacity. IQ4 software satellite controller capacity can be upgraded in 5-satellite increments with the IQ5SATSWU.

### IQ4 Platform Software Features

- Compatible with ESP-LXME, ESP-LXIVM and ESP-LXMMEF traditionally-wired and ESP-LXD two-wire decoder controllers
- Site, satellite, and station names
- Programming in seconds, minutes, and hours



- Daily or Monthly Seasonal Adjust % or ET station run time adjustments by site
- Manual Program, Test Program, Station starts
- Detailed logs and reports
- Automated or user initiated satellite Synchronize & Retrieve Logs and Weather Source Retrieve Weather Data communication
- Automated Email Alarm/Warning and Satellite Station Run Time Reports
- Satellite PIN-Code Protection (4-digit PIN-Code required to make programming changes at the satellite)
- Satellite Two-Way Programming (changes made at the satellite can be viewed and accepted in the IQ4 software)
- Copy/Move Satellite Utility (copy or move a satellite to another site)
- Auto-Synchronization of data from IQ to Satellite
- Software uses Irrigation Association terminology and formulas
- ET/Rainfall Weather Sources include:
  - CIMIS Internet Service (California only)
  - Rain Bird WSPROLT Weather Station
  - Rain Bird WSPRO2 Weather Station
- IQ Global Weather Internet Service which provides local weather data including rain fall
- Retrieves minute-by-minute flow logs from flow sensor equipped ESP-LXMMEF, 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)
- Actual Flow Totals added to Satellite Station Run Time Report (included in Automated Email Reports)
- User selectable languages include English, Spanish, French, German, Italian and Portuguese

### Minimum Requirements for IQ4-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

### How to Specify

IQ4 Platform	IQ4-Cloud	IQ4-Desktop

## Specifications

The irrigation central control system shall be the IQ4 Platform as hereafter specified and as shown on the drawings. The system shall be fully programmable, providing the operator with absolute and full control of the entire control system. The system shall provide a degree of flexibility such that, in effect, anything that could be done at the satellite controller shall be capable of being done at the remote device.

The system shall have a Web Based graphical user interface (GUI) that allows easy programming and graphical depiction of the satellite controller programming.

IQ4 Platform shall have the following features:

### Compatibility:

- ESP- LXME & ESP- LXMEF Series traditionally-wired controllers with 1 to 48 station capacity
- ESP-LXD Series Two-wire decoder controllers with 1 to 200 station capacity
- ESP-LXIVM Series IVM controller with 1 to 240 station capacity

### Administrative:

- Virtual log-on passwords to administer access privileges to multiple users
- Languages: English, Spanish, French, German, Italian, and Portuguese
- Preferences: User defined date/time, and unit formats
- Grouping: Based on site, landscape and sprinkler type

### Hardware Support:

- For interface with software:
  - 4G network Communication Cartridge (NCC) Cartridge
  - Ethernet Cartridge
  - RS 232 Cartridge
- Configuration: Direct, Server and Client
- Up to 149 Client Controllers with sharing of weather sensors and master valves

### Software Capabilities:

- Detect Modules
- Cartridge firmware upgrade
- Upload programs to Controller (Synchronize)
- Retrieve Controller Programs (Reverse Synchronize)
- Automatic contact to upload programs to controller after 1 hour of inactivity and retrieve logs from controller outside watering window (Auto-Synchronize)
- Manual Functions:
  - Start program, test program, Auto On/Off, Turn Master Valves On/Off for manual watering, turn Flow manager On/Off and Rain Delay
- Adjustments: Program Adjust and ET adjust
- ET/Rain weather resources:
  - IQ Global Weather
- Group Edit:
  - Site Level, Controller Level, Program Level and Station Level
  - Additional grouping based on landscape type and sprinkler type

- Define Valve Types and Sensor Types
- Flow Watch based on learned flow
  - Diagnose and shut off the source
- User defined Station Priority
- Commencement of watering in next watering window
- User defined Simulstations
- FloManager to reduce overall watering time
- Automatic reporting through emails
- Minute-by-minute flow logs in a graph comparing actual flow and projected flow
- PIN based user access:
  - Two way programing
  - User Access level
  - Complete and partial Lockout
  - 5 PINs per controller
- Flow Logs
  - Minute-by-minute graphical comparing of actual flow and projected flow
  - Actual flow totals in the automated email reports

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