Maestro

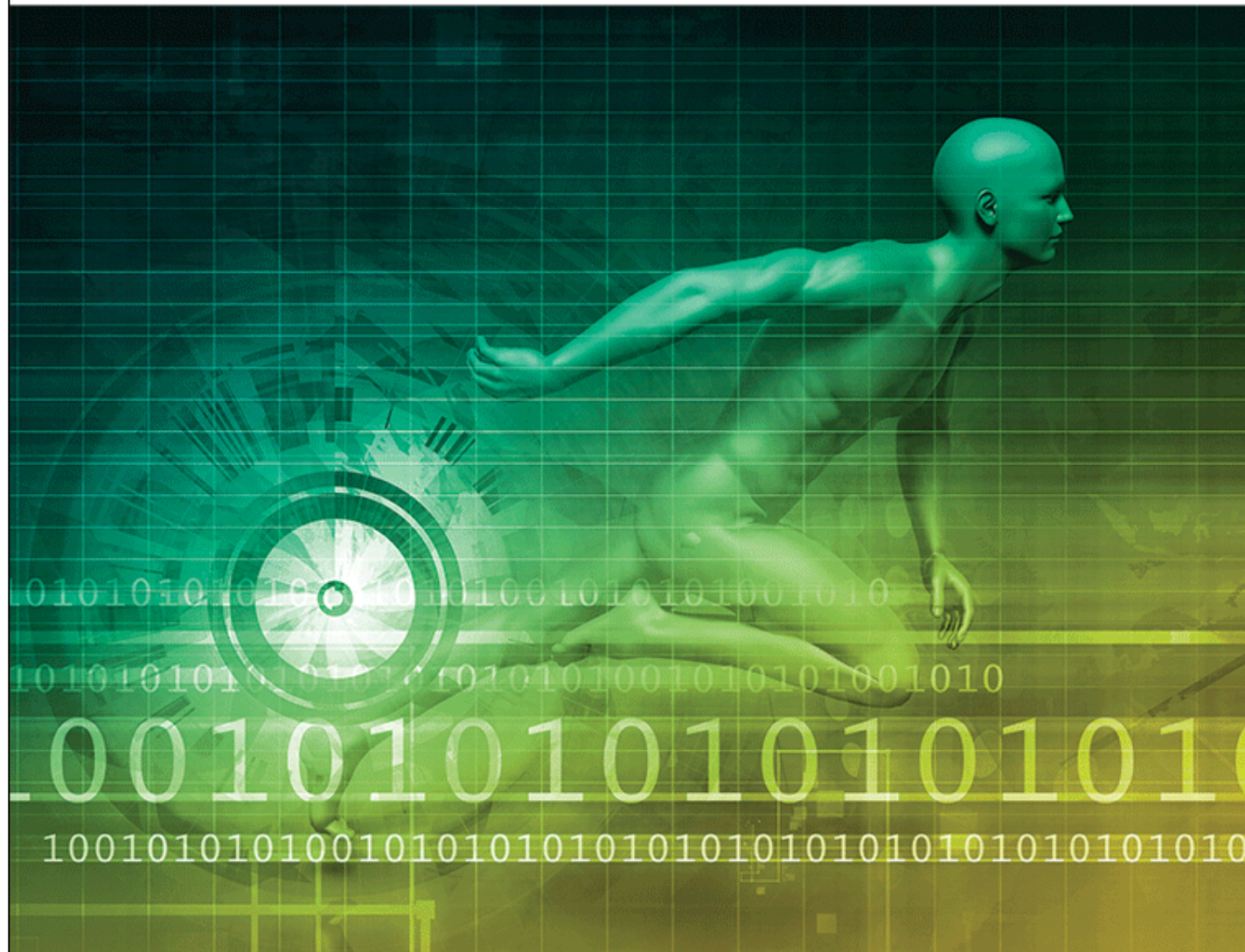## Next-Gen Automation

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TECHNOLOGIES

Maestro
Next Gen Automation

Welcome to the world of next generation automation. We, at Bigwig Technologies, deliver integrated Home and Industrial automation solutions. With our vivid expertize in diversified technologies and business domains, we deliver innovative solutions in automating complex requirements, aiming to ease and simplify end user operation and experience.

Maestro, by Bigwig Technologies is one of the most advanced products in the world of automation that provides integrated solution in segment of lightings, enhanced security and irrigation. It is designed considering needs of home owners , societies & institutes, landscape & gardening, industrial applications, etc.

Maestro is the perfect blend of modern technology with simplified user interface, addressing complex requirements and maximizing the usage of existing devices & infrastructure; making it different from other available automation solutions.

The moment you use Maestro, you will know you've never used anything like it before !

Experience the magic of Maestro !

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Complete Wireless Freedom and Beyond

Comfort, Convenience and Happiness at your finger tips

Maestro gives complete Wireless Freedom and redefines the way we live life. With Maestro, you can control devices using smart phones, tablets, laptops / computers / etc, wirelessly, anytime and anywhere from network. With internet enabled networks (broadband internet, dial up connection, data cards / dongles, etc), you can further extend the control to anywhere in the world. Despite having Wireless comfort, Maestro also retains manual control of devices.

Maestro is loaded with features that bring serene joy to your life. With its simple and easy to use interfaces, Maestro can be tuned to suit your life-style and preferences. Maestro is beyond traditional automation. Excellence and sheer intelligence redefined by Maestro, upgrades lifestyles seamlessly giving essence of living with comfort, convenience and bliss.

Maestro and it's family devices

Maestro and its family devices enable advanced automation solutions in the space of lightings, security and irrigation (more coming...). Maestro is the master/controller, which wirelessly controls all it's family devices.

Family Devices include -

l   E-Switches --> For controlling lighting and appliances

l   Z-Switches --> For controlling sprinklers, foggers, water outlets, etc

l   E-Security --> Enhanced security system

l   Z-Sensors --> For monitoring and controlling root zone temperature and moisture of plants

All devices are designed considering existing systems / infrastructure so that they can be easily installed without major changes.

Maestro is IOT (Internet of Things) enabled. It thus open doors for a whole new set of possibilities and features which were not feasible in earlier times.

The configuration and control of family devices is even simpler using Maestro's web based console and mobile app (iOS and Android).

Features

More is always good

It is our constant endeavor to get more out of device / system, than just its traditional or standard output. Our proactive approach in developing innovative solutions against un-said requirements has been the key in making Maestro to stand out with its unique features that is useful to every person, in its own way.

With Features, you can delegate routine activities to Maestro so that you can focus on more important things.

Shutdown / Resume:

Everyday, knowingly or un-knowingly, every person performs Shutdown and Resume operations to a varied set of things. When you leave for work, you shutdown your home. And when you leave work, you shutdown your office. Same goes with Resume. During these times, we are often in rush and short of time, making these tasks look difficult and time consuming.

Maestro makes this simpler and fast. One click and you are done. Just in case you forget, then there is more good news. This can also be done remotely using your smart device.

Mode:

We often indulge in performing a series of activities. Say after a long and tiring day, you are about to go to sleep. You would switch off/on a series of systems like; lights / water lines / security systems / etc. Even with an automated system, this task may seem as a nightmare.

Maestro comes with feature called Modes (similar to setting a scene). Modes help in executing multiple / series of switching operations; in a sequence; at click of a button. Modes are customizable and you can assign your own favorite name to it. With Maestro's simple interface, you can add / edit / delete unlimited modes with ease.

So after a tough day, go to sleep by clicking a custom mode named "Good Night".

Scheduler:

Scheduler helps in setting time-bound operations just like an alarm. Scheduler can be set to trigger at a specific date and time or in repeat mode (selected days of week). You can assign a custom name to a Schedule. With Maestro's simple interface, you can add / edit / delete unlimited schedules with ease.

Unlike Modes, a Schedule can be enabled / disabled from your smart device any time and from anywhere.

So schedule your passage lights, your bathroom heater, etc and find things ready at the time you really need them. On the lighter side, we also have customers scheduling Mosquito Repellents to be active at specified period at night.

Panic:

In event of any emergency situation (medical / theft / fire / floods / riots / etc), your loved ones can help only if they are aware. In such events, communication is the most crucial element. We therefore need to be prepared for the un-expected.

By default, Maestro comes with the "Panic" feature which sends notification alerts to all system users whenever it is activated. It can be activated from smart devices, even when you are outside.

Multi-function Switch:

Multi-function switch feature is designed to perform smart operations using existing switches (without using the Smart Device). It enables a Switch to perform additional tasks retaining its normal ON/OFF operations.

In most of our homes, we have a switch board located close to the entrance / exit door. These switches provide immediate access to turn on lightings as you enter the house. Did you ever wish if you could use the same switches to Shutdown the house when you exit and Resume when you return? And as well retain lighting operations? If Yes, then your wish is fulfilled.

Maestro is enabled with CDC (Cross Device Communication). Meaning a Switching device can communicate and perform actions on other Maestro family devices; like Switching / Security / Irrigation / Sensors / etc.

So now, you may think how is it feasible to switch lightings and at the same time perform a Shutdown operation. Answer is simple. When you turn the Switch ON, the lighting device turns ON and visa versa. However if you perform ON and OFF operation three times consecutively in a sequence, then the multi-function feature gets activated. With this, whichever multi-function Mode you assigned to a switch gets executed. The Mode can be Shutdown / Resume / Panic / any custom mode.

With this, you can Shutdown / Resume your house without accessing your smart device.

You can assign same Mode to multiple switches in your house. Say you assign Panic mode as the multi-function feature to the first switch of each room. Now let us see how it is useful. Say for instance you are in your bedroom and see a person encroaching in your living room. You also don't have your mobile device with you. What should you do? Allow me. First thing you should do is move back in your bedroom, lock it and safeguard yourself. Then move towards the closest Switch board and execute the multi-function feature on the first switch. With this, the Panic sequence will be executed.

The built-in speaker of Maestro Security device will get activated creating Siren noise which will enable domestic help from neighbours. Along with this, Maestro will send Panic notification alerts to all the configured users of your house.

Snap on Bell:

Ever missed an important un-expected person visiting your place?

Snap On Bell is a unique feature which enables viewing image of the person ringing the door bell on your favourite smart device. On press of door bell, Maestro will take snap from the existing security camera installed at door, sends alert notifications and snap of the person ringing door bell, on all smart devices. Just like a Whatsapp beep. You can also view pictures of all persons who visited your home, at your comfort, at any time, from anywhere in the World.

Maestro is compatible with all IP and DVR based security cameras. So if there is already such camera installed at front door, then it can be integrated without purchase of any additional systems.

Guard Mode and Smoke Detector:

We understand that home is the most precious assets and it is imperative to ensure safety & security of home and family members.

Guard Mode and Smoke Detector features are embedded in Maestro's Enhanced Security system. It contains an inbuilt Motion Sensor and a Smoke Detector.

On activation of Guard mode and with motion detected in vicinity, Maestro will trigger the Panic sequence, shutdown down all switches, activate the in-built speaker with Siren noise and send alert notifications / emails to all configured users.

The above sequence will also be executed on the event of Smoke Detection.

Unlike Smoke Detector, Guard Mode can be scheduled using the Scheduler feature.

Check your security systems when you **ACTUALLY** need to !

Maestro Interfaces

It's simple. Anyone can do it !

All interfaces of Maestro are designed to be simple, user-friendly so that anyone with basic skills can operate them. Maestro has three types of interfaces namely:
1. Web Console (To configure and operate family devices)
2. Mobile App (iOS and Android) for remote operations.
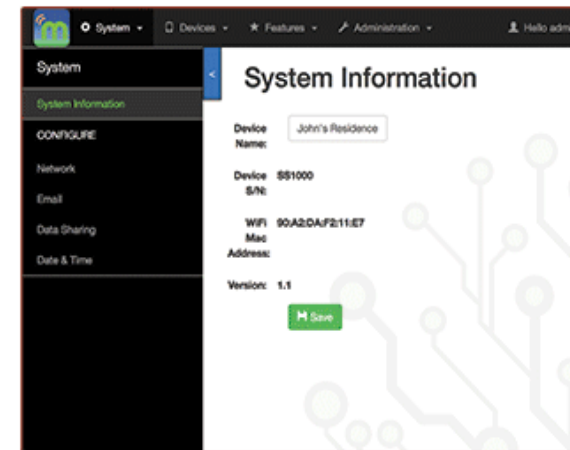3. Manual operation (your favourite manual switching device / interface).

Web Console :

The Web Console is Control Panel of Maestro. It is primarily used to add / modify / delete and configure Maestro family devices. It is also used to set operating parameters for Maestro.

The Web Console is a browser based application which can be accessed from any computing device containing browser, from anywhere in the network. If network is connected to Internet, then Web Console can be accessed from anywhere in the world.

It is developed using responsive (automatic resize of object depending on screen size) technology and thus can be accessed comfortably from tablets and smart phones.

Web Console

Mobile App

The Web Console is highly user friendly interface making the configuration and operations seem like piece of cake.

Mobile App:

Maestro mobile app is available on iOS and Android platforms. The mobile app is designed to make end user operations simple and easy. Its rich look and feel makes others envy. Using the Mobile App, all family devices can be operated anywhere within the same network. It can be operated from anywhere in the world provided Internet is enabled on Maestro & Mobile device.

Mobile App

Manual Operations:

Enabling Wireless freedom and at the same time, retaining manual operations is forte of Maestro. Unlike other automation products which bind in using their specific manual device, Maestro gives freedom in selecting your favourite / existing manual operating device. Say for instance, you can choose in using your favourite switch board that matches color of wall.

Automation in Greens

Greens (plants) are essential part of our life. Like we need food, plants need water for survival. It is therefore our responsibility to ensure plants are timely irrigated. With our hectic schedule, it is hard to comprehend and track daily chores / activities. It often becomes difficult to even take vacations. And the same question pops up at various other occasions; "Who's going to water my plants?".

Like humans, plant needs and routines are difficult to understand. Adding to the complexity, every plant is different. Some consume more water, some need more light, some grow in specific ambient temperature, etc. We therefore associated with a leading Vertical Gardening organization named ELT (Ecogreen Landscape Technologies) India Pvt. Ltd.

Combining ELT's deep domain expertise and our technological backbone, we introduced products that would help and ensure plants are timely irrigated.

Like we turn ON/OFF lights, the Z-Switches (Zone Switches) can turn ON/OFF irrigation lines. Most of the features (like Scheduler, Modes, Alerts & Notifications, etc) of Maestro are also extended to these products. With this, you can ensure plants are timely irrigated and at the same time, can be controlled remotely. So schedule the sprinklers, misters, irrigation lines, landscape lightings and security, as per your needs and control them using One Mobile App.
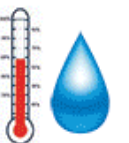
Today's climatic conditions often deviate from seasonal patterns and it is difficult to predict weather. Like it is cool in the morning, suddenly gets too hot in afternoon and rains in the evening. It is therefore confusing at times to decide which is right time to water plants. With our advanced system, sensors (Z-Sensors) are deployed in soil which monitor root zone moisture and temperature. It turns ON/OFF irrigation lines automatically as and when the parameters go out of threshold, and that too without any human intervention.

The system also sends alerts (mobile notifications and emails) if moisture level does not increase even after irrigation lines are opened (classic case of choked water lines).

Our advanced irrigation system displays real time temperature and moisture levels and logs this information on periodic basis. Based on captured data, the system also plots graphs that help in making statistics based on historical information.

Applications:

1. Home – Small and medium landscape gardening
2. Large Landscapes
3. Polyhouses and Agriculture based industries
4. Deployments where it is difficult to physically monitor and check health of plants.

Product Catalog

Maestro

Maestro and its family devices deliver single integrated automation solution in the segment of lightings, enhanced security and irrigation. It enables cross device communication making it feasible to deliver smart solutions.

Its features include:

1. Mobile App (iOS and Android) - control anywhere in the world
2. Web Console to add, configure and operate devices.
3. Retains manual control options with override feature
4. System features include Shutdown/Resume, Panic, Multi-function switch.
5. User-defined features include Scheduler (Timers) and Modes (Scenes).
6. Enhanced Security features include Snap on Bell, Guard Mode and Smoke Detector.
7. Sends alerts in form of notifications and emails.

Specifications:

1. Network : Built-in Wifi, Lan Support
2. IOT Enabled: Yes
3. Internal Communication:
   - Type: Wireless, 2.4 GHz
4. External Antenna - Large (included)
5. Power: 5V DC, 1 Ampere (micro USB)
6. Dimensions:
   80mm (l) x 117mm (b) x 28mm (h)

E-Switch

E-Switches are used in automating electrical devices / appliances.

Its features include:

1. Assign custom name to switch board and its individual switches.
2. Create unlimited Schedules (Timers), Modes (Scenes).
3. Enables user selectable switches to participate in Shutdown / Resume / Multifunction operations.
4. Slim design - fits inside electrical switch panels / boards.
5. Quick and easy installation.

Specifications:

1. Number of controllable switches: 4
2. Switch Ratings: 230 VAC, 1A - 6A
3. Mount Slots: Available
4. Electrical input: 230 VAC, 50 Hz
5. External Antenna - Medium (included)
6. Internal Communication:
   - Type: Wireless, 2.4 GHZ
   - Wireless Repeater: Enabled
7. Dimensions:
   112mm (l) x 69mm (b) x 25mm (h)

E-Security

E-Security is advanced security system which contains in-built motion sensor, smoke detector, panic speaker with external hooter support. Snap on bell feature can be enabled by connecting Bell to its external inputs. It is best suited and must-have for home owners.

Specifications:

1. In-Built Sensors: Motion & Smoke
2. External Antenna - Medium (included)
3. Electrical Input: 9 VDC, 500mA
4. Internal Communication:
   - Type: Wireless, 2.4 GHZ
5. Dimensions:
   115mm (l) x 80mm (b) x 40mm (h)

E-Security
Security Cameras
Internet (World Wide Web)
E-Switch
Maestro
WiFi Router
Z-Switch
Z-Sensor
Light   Fan
Z-Sensor
Laptop   Desktop
Solenoid Valve   Soil

Maestro - Internal Wireless Network
Internet   WIFI - Network

Z-Switch (Zone Switches)

Z-Switches are used in automating irrigation lines from small to large landscape plantations.

Its features include:

1. Assign custom name to every zone and its individual irrigation lines.
2. Turn ON/OFF irrigation lines by press of button; just like switching lighting devices.
3. Create unlimited Schedules (Timers), Modes (Scenes).
4. Enables participation in Shutdown / Resume / Multifunction operations.

Specifications:

1. Number of controllable water lines: 4
2. Internal Communication:
   - Type: Wireless, 2.4 GHz
   - Wireless Repeater: Enabled
3. Electrical input: 230 VAC, 50 Hz
4. External Antenna - Medium (included)
5. Solenoid Valves : Not included
6. Mount Slots: Available
7. Dimensions:
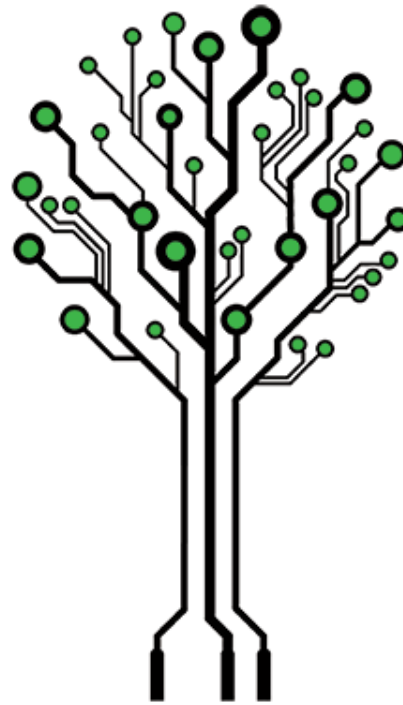   126mm (l) x 155mm (b) x 85mm (h)

Z-Sensor (Zone Sensor)

Z-Sensors are used in advanced irrigation system to monitor root zone moisture and temperature. It wirelessly sends commands to Maestro in the event to turn ON/OFF irrigation system. It also displays real-time moisture and temperature levels on mobile app and Web console. It is best suited for monitoring plantations where physical inspection is difficult.
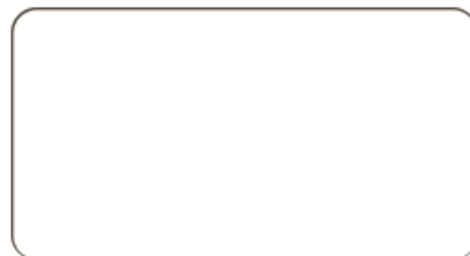
Specifications:

1. Number of moisture sensors: 2
2. Number of temperature sensors: 1
3. Internal Communication:
   - Type: Wireless, 2.4 GHz
   - Wireless Repeater: Enabled
4. External Antenna - Medium (included)
5. Electrical Input: 9 VDC, 500mA
6. Dimensions:
   95mm (l) x 52mm (b) x 40mm (h)

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Innovation at **W**ork . . .

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