



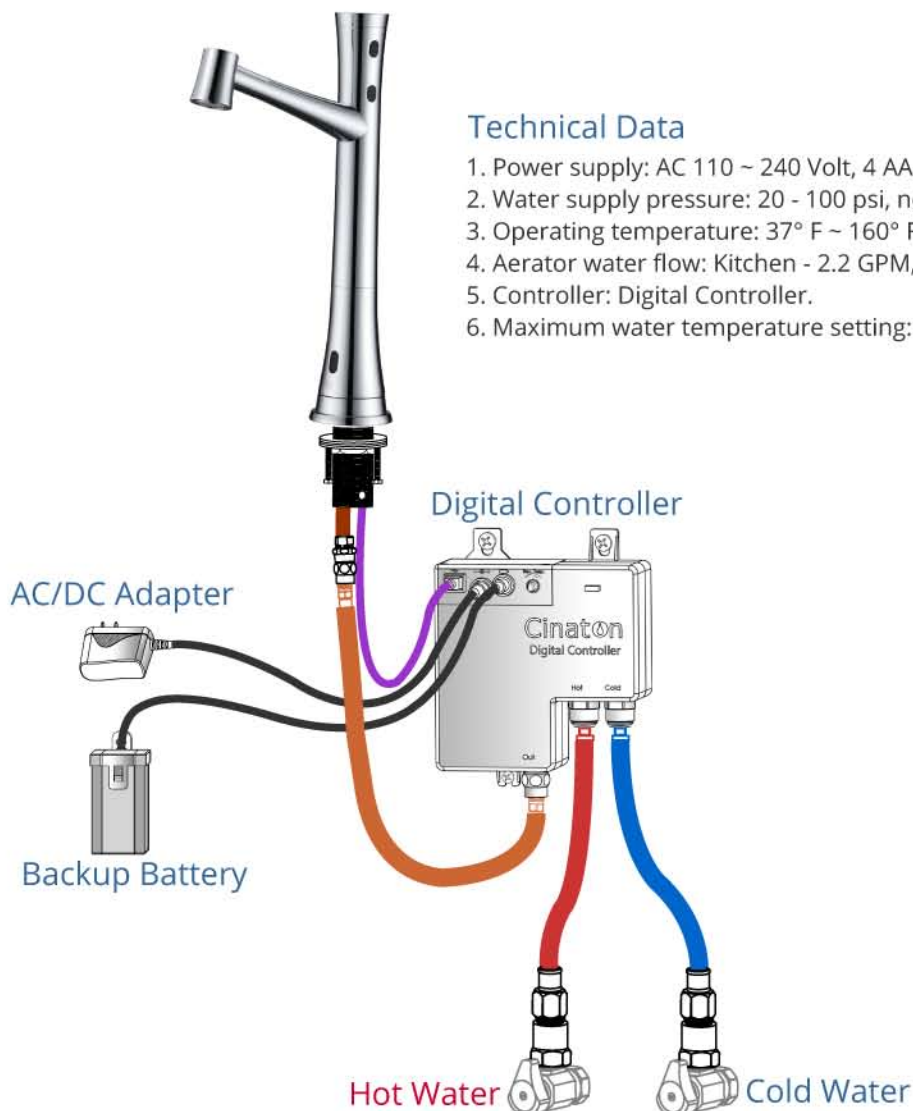
5 Sensor Operation Manual



Touch Free Intelligent Faucet®



iSense® Touch Free Intelligent Faucet System



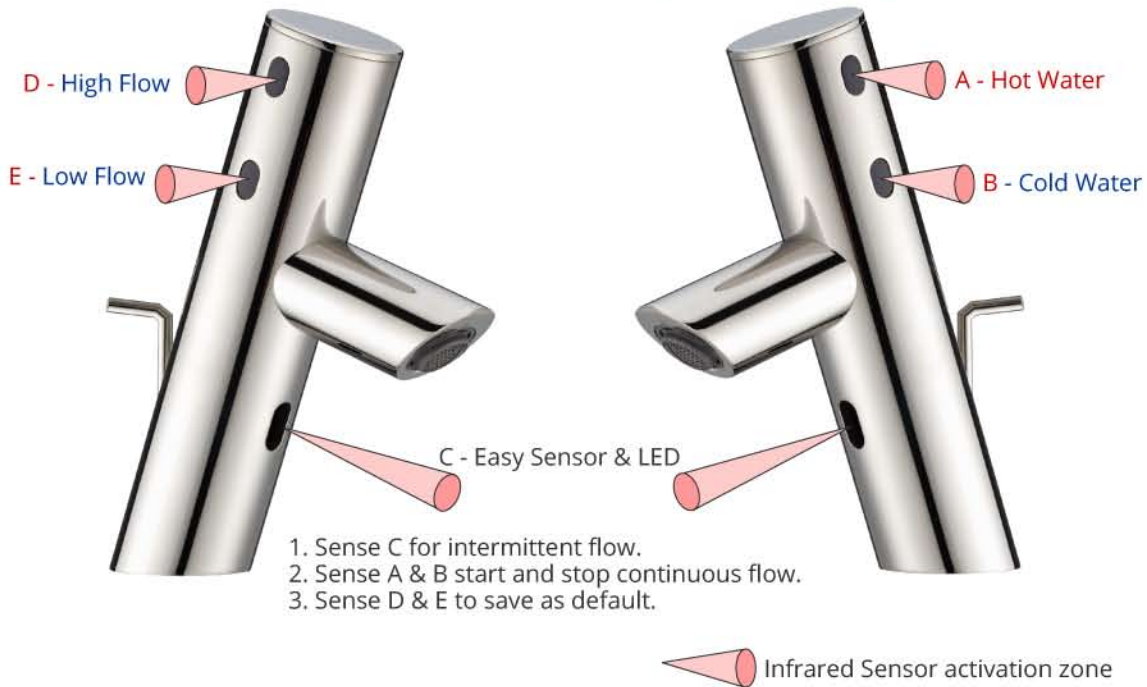
Technical Data

1. Power supply: AC 110 ~ 240 Volt, 4 AA backup battery box.
2. Water supply pressure: 20 - 100 psi, normal 60 psi.
3. Operating temperature: 37° F ~ 160° F
4. Aerator water flow: Kitchen - 2.2 GPM, Lavatory - 1.5 GPM.
5. Controller: Digital Controller.
6. Maximum water temperature setting: 110° ~160° F

Features

1. Innovative & intelligent iSense® - touch free technology provides an easy to use, convenient and unique faucet experience.
2. Simple, Clean, Stylish Design - no handles or buttons to operate. Experience a new way of food preparation and clean-up reducing exposure to bacteria.
3. Beyond your expectations - 5 proximity sensors (hands-free) combine to make everyday tasks easier.
4. Full water temperature and water flow control without touching the faucet.
5. Personalized settings - three user-defined water temperature and flow settings for personal convenience.
6. Backup battery for continuous use during electric power outage.
7. Maximum temperature setting for ADA compliance. No scalding risk for any age (Children, the elderly and the disabled).
8. Single hole mount for less counter clutter and easy operation.
9. Solid brass construction for durability.
10. PVD coating features an easy-to-clean surface which is more durable and resistant to corrosion (Not available in all models).

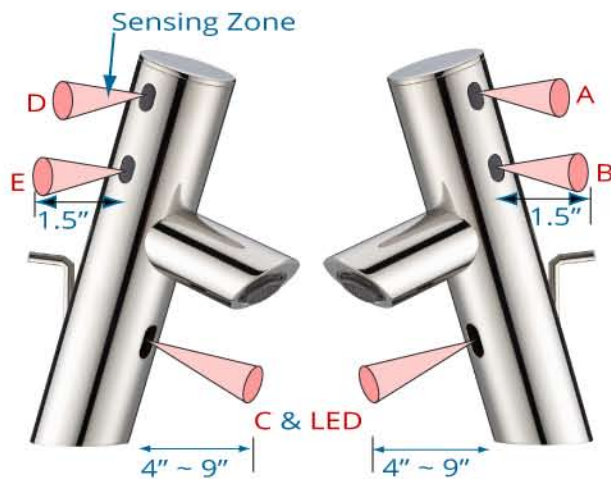
iSense® Touch Free Intelligent Faucet (TIF)



Operation Procedure

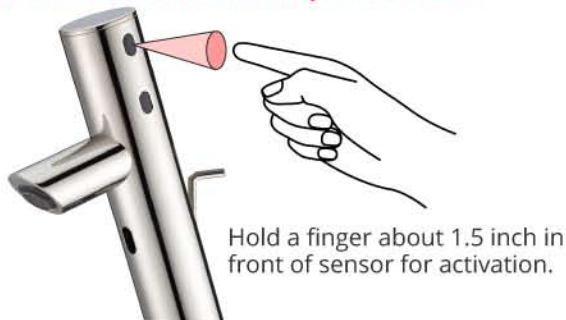
Sensor Zone & Distance

There are two sensors (A & B and C & D) on each side of faucet to control water temperature and flow. On the front of faucet is sensor C for intermittent flow and a LED indicator.



Hold your palm about 1.5 inch in front of two sensors for simultaneous activation.

How to activate Touch-free sensors

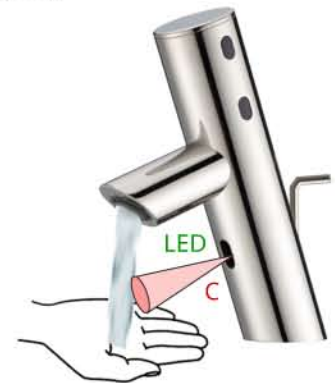


Hold a finger about 1.5 inch in front of sensor for activation.

How to start intermittent water flow with Easy Sensor C

Hold hand or object under spout in front of Easy Sensor C sensing area to start intermittent water flow, remove hand or object from Sensor C sensing area to stop water flow.

LED - Flashes green once.

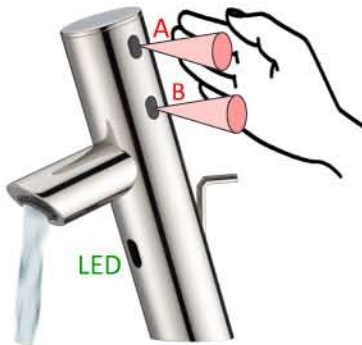


How to start continuous water flow with Sensor A & B

Hold hand in front of both Sensor A and Sensor B to start continuous water flow.

LED - Flashes green once.

Water flow will stop after 5 minutes if no activity on any sensor.



How to save Default Setting (Preset 0)

Hold hand in front of both Sensor D and Sensor E to save current water temperature and flow setting as new Default Setting for preferable usage.

LED - Flashes green once.



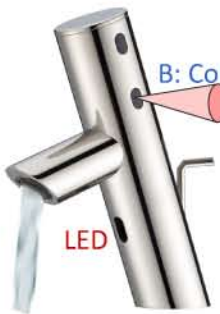
How to adjust water temperature



Hold finger in front of Sensor A (hot) to raise water temperature.

LED - Flashes once every step up.

Red - over 100 °F
Yellow - over 70 °F
Green - below 70 °F



Hold finger in front of Sensor B (cold) to lower water temperature.

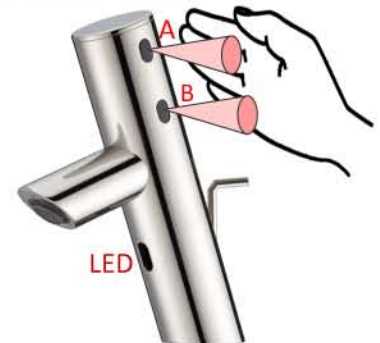
LED - Flashes once every step down.

Red - over 100 °F
Yellow - over 70 °F
Green - below 70 °F

How to stop continuous water flow

Hold hand in front of both Sensor A & Sensor B again to stop continuous water flow.

LED - Flashes red once.

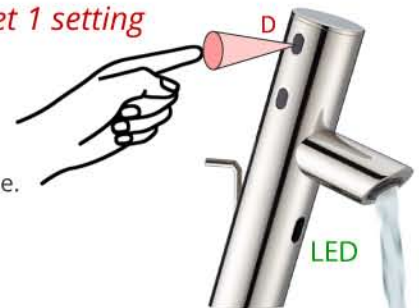


Preset and Saving Setting

1. How to start Preset 1 setting

1-1. With water flow off, hold finger in front of Sensor D to start Preset 1 setting.

LED - Flashes green once.



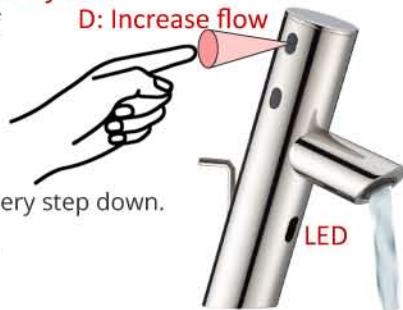
How to adjust water flow

Hold finger in front of Sensor D to increase water flow.

D: Increase flow

LED - Flashes once every step down.

Red - high flow
Yellow - medium flow
Green - low flow

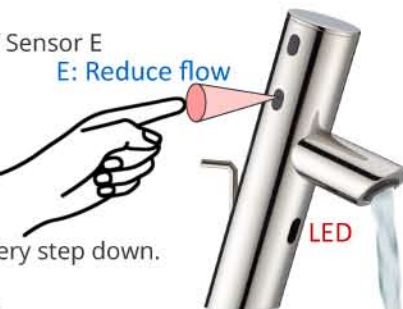


Hold finger in front of Sensor E to reduce water flow.

E: Reduce flow

LED - Flashes once every step down.

Red - high flow
Yellow - medium flow
Green - low flow



1-2. Then hold hand in front of Sensor A and B or in front of Sensor C to start water flow with Preset 1 setting.

LED - Flashes green once.



2. How to save Preset 1

2-1. Adjust water temperature and flow accordingly.

2-2. Hold hand in front of both Sensor D and E to save the current water temperature and flow setting as new Preset 1 setting.

LED - Flashes green once.

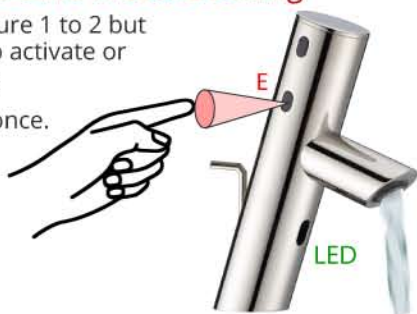


2-3. Hold hand in front of Sensor A and B again to stop water flow.

3. How to start and save Preset 2 setting

Repeat same procedure 1 to 2 but start with Sensor E to activate or save Preset 2 setting.

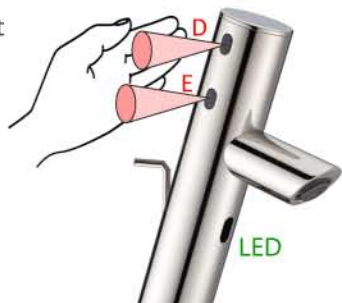
LED - Flashes green once.



4. How to reset Default (Preset 0) setting

Faucet will reset to Default Setting condition after 30 seconds without new operation command.

Repeat same procedure 1 to 2 but start with holding Sensor D and E to activate or save Default (Preset 0) setting.

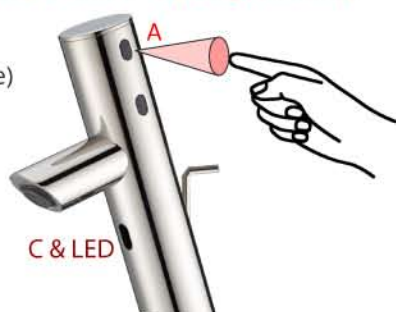


Pause Sensor C

How to pause (disable) Sensor C (Easy Sensor)

With water flow off, hold finger in front of Sensor A to stop (pause) Sensor C for working in the sink area.

LED - Flashes green and red once.



Sensor C paused (disabled) to allow user to proceed with housework in the sink area.



How to reset (enable) Sensor C (Easy Sensor)

With water flow off, hold finger in front of Sensor A to reset Sensor C.

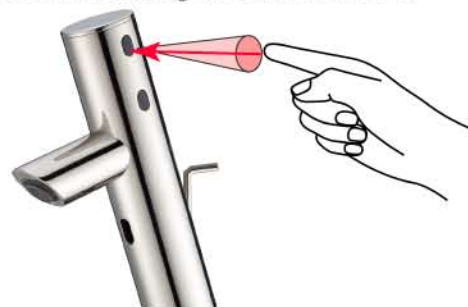
LED - Flashes green two times.



Interference of Sunlight

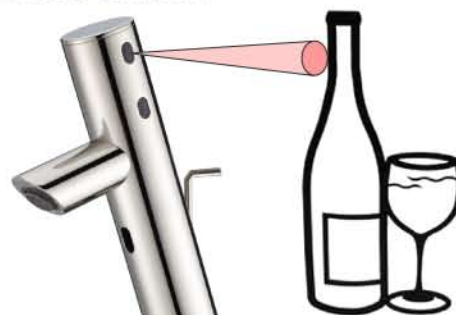
How IR sensor works?

IR sensors use infrared (IR) light to sense nearby objects. A pulse of infrared light is emitted and spreads out in a cone shape for a short distance. If an object is within the cone's area, then IR light will be reflected and received by IR detector activating the sensor function.



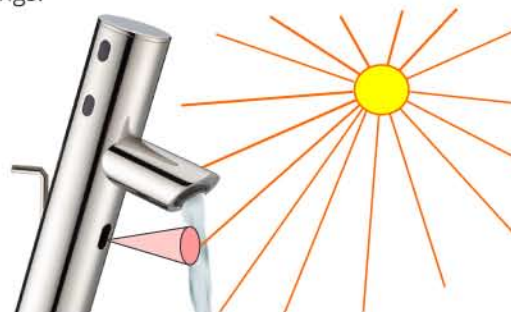
Keep sensors surrounding area clear

Some objects such as mirrors or bottles with smooth shiny surfaces can reflect the infrared light from farther away and cause false activation.



Sunlight interference

Sunlight or flames also present a problem as they emit a lot of IR light and thus interfere with IR sensor providing false readings.



How to stop false activation

The longer sensing distance of Sensor C (Easy Sensor) is the sensor most likely to be activated by direct sunlight in sink area especially in morning sun or sunset light. You can pause (disable) Sensor C by sensing Sensor A with water off.

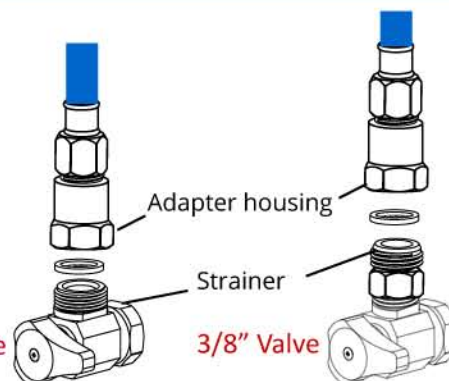
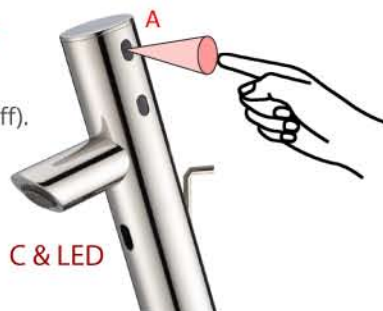
LED flashes green and red

Should water flow be activated by sun light on Sensor C, water flow can be stopped by holding your hand in front of Sensor D and E for 5 seconds to stop water flow and pause (disable) Sensor C.



Re-enable Sensor C

You can re-enable Sensor C by activating Sensor A (with water off). LED - Flashes green two times



3. Resetting the system

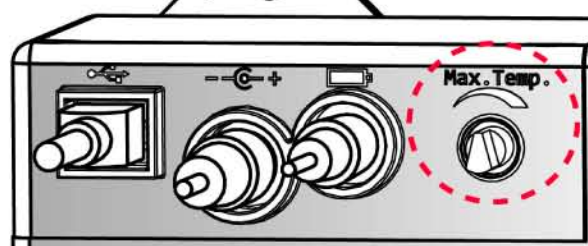
Should the system ever malfunction, it may be necessary to perform a reset.

To reset:

- Unplug the AC/DC adapter.
- Disconnect the backup battery power wire.
- Wait for 10 seconds to clear the memory.
- Plug the AC/DC adapter and reconnect the backup battery cable. The system will be reset to factory settings.

4. Setting maximum water temperature

The water temperature adjustment knob on Digital Controller can be set between 110 °F (43.3 °C) to 160 °F (71.1 °C) to prevent scalding risks, especially to children, the elderly, and the disabled.



Maintenance

1. Cleaning the faucet

The completely touch free faucet requires very little maintenance. Wipe surfaces clean with a soft, damp sponge or cloth. Never use cleaning chemicals or abrasive material such as a brush, abrasive sponge or scouring pad to clean faucet surfaces or sensors.

2. Clearing water supply strainers

Water flow may decrease in volume over time as a result of debris trapped by the water supply strainers.

To clear two strainers (located in water supply adapter):

- Shut off cold and hot water supply valves.
- Disconnect the 3/8" x 1/2" adapter housings.
- Flush the strainers with water until clear of debris.
- Reinstall strainers and connect adapter housings.
- Turn on cold and hot shut off valves and check for any leakage.

5. Power supply low voltage alert

The visible LED will flash yellow when low voltage power supply from AC/DC adapter, power cable lost connection, or 4 AA backup battery low voltage.

Plug the AC/DC adapter or replace the 4 AA batteries.

6. Automatic calibration

The touch free faucet system is automatic calibrated periodically. The visible LED flashes in red and green during automatic calibration. The process takes about 30 seconds.

Faucet Troubleshooting Table

Symptoms	Probable Causes	Recommended Action
1. No water flow.	A. The cold and/or hot water supply shut off valves are closed.	A. Confirm the water supply shut off valves are open.
	B. The cold and/or hot supply hose is kinked.	B. Confirm the supply hoses are not kinked. If coiled, maintain an inside diameter of 3" (76 mm).
	C. The spout outlet hose is kinked.	C. Confirm the Digital Controller is located within 4" (102 mm) to 6" (152 mm) from the faucet base.
	D. Continuous water flow not functioning (LED not lit green).	D. Refer to the "Sensor Troubleshooting Table" section.
	E. Intermittent water flow not functioning (LED not lit green).	E. Refer to the "Sensor Troubleshooting Table" section.
	F. One or both of the water supply strainers are clogged.	F. Refer to the "Cleaning water supply strainer" section.

Faucet Troubleshooting Table

Symptoms	Probable Causes	Recommended Action
1. No water flow.	G. Water flow control (Sensor D, E) turned too low.	G. Hold finger on Sensor D to increase water flow.
	H. Malfunction of system program.	H. Refer to the "System reset" section.
	I. Digital Controller not functioning.	I. Replace the Digital Controller.
2. Low water flow.	A. The cold and/or hot water supply shut off valves are partially closed.	A. Confirm the water supply shut off valves are fully open.
	B. The cold and/or hot supply hose is kinked or twisted.	B. Confirm the supply hoses are not kinked. If coiled, maintain an inside diameter of 3" (76 mm).
	C. The spout outlet hose is kinked.	C. Confirm the Digital Controller is located within 4" (102 mm) to 6" (152 mm) from the faucet base.
	D. One or both of the water supply strainers are clogged.	D. Refer to the "Cleaning water supply strainer" section.
	E. Digital Controller not functioning.	E. Replace the Digital Controller.
3. Low water temperature.	A. The hot water supply shut off valve is closed or partially closed.	A. Confirm the hot water supply shut off valve is fully open.
	B. The hot supply hose is kinked or twisted.	B. Confirm the hot water supply hose is not kinked. If coiled, maintain an inside diameter of 3" (76 mm).
	C. The hot water supply strainer is clogged.	C. Refer to the "Cleaning water supply strainer" section.
	D. Maximum water temperature setting is too low.	D. Refer to the "Setting maximum water temperature" section.
	E. Digital Controller not functioning.	E. Replace the Digital Controller.
4. Poor spray pattern.	A. The spray nozzles are clogged.	A. Rub your finger over the nozzles with water running to dislodge debris.

Sensor Troubleshooting Table

Symptoms	Probable Causes	Recommended Action
1. Sensors malfunctioning.	A. Debris on the sensor lens.	A. Use mild soap and water to gently clean sensor lens.
	B. Sensor is detecting object.	B. Rotate the spout away from the object or remove the object from the sensor zone.
	C. Sensor affected by interference of sunlight or other light source.	C. Refer to the "Interference of sunlight" section to disable (pause) the Easy Sensor.
2. Sensors are not working, LED not lit.	A. Loose sensor cable connection.	A. Check sensor cable connection to the Digital Controller.
	B. Debris on the sensor cable connector.	B. Gently clean the cable connector and cable connection port with clean dry brush.
	C. AC/DC adapter power supply is not connected.	C. Confirm the AC/DC adapter is powered (the adapter green light is lit) and connected to Digital controller.
	D. 4 AA backup battery low voltage.	D. Confirm the 4 AA backup battery is powered at minimum 4.8 volt.

Installation Manual

IMPORTANT INSTRUCTIONS

NOTICE: The faucet system uses a 6 volt DC power and a 120 ~ 240 volt AC adapter.



Please follow all plumbing, electrical, and building codes.

WARNING: When using electrical products, basic precautions should always be followed, including the following:

1. Risk of electric shock - Connect only to an unswitched circuit protected by a Ground-Fault Circuit-Interrupter (GFCI).
2. Disconnect power before servicing.
3. Please read all instructions thoroughly before beginning installation to avoid risk of injury or property damage.
4. Do not open the Digital Controller. Open the Digital Controller will void the warranty.
5. Do not store open chemicals near the Digital Controller.
6. Rinse cleaning rags and sponges with fresh water.



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