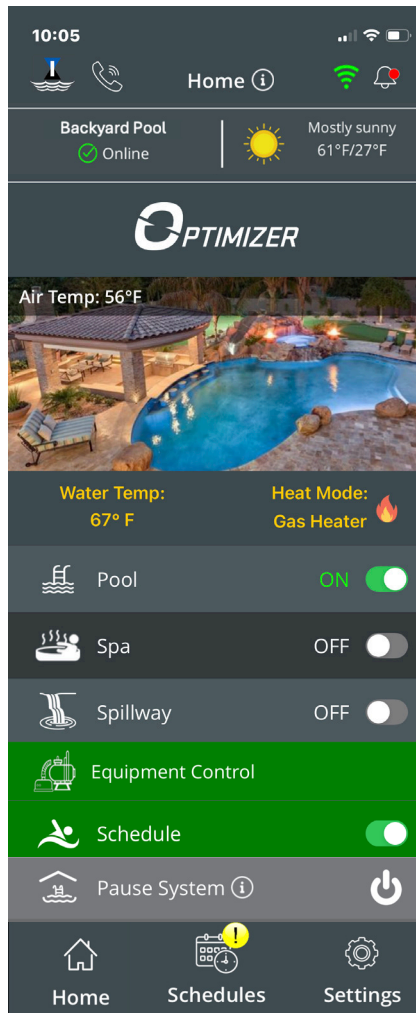




Optimizer System App

User's Guide



FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does

cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void the user's authority to operate this equipment.

To comply with FCC RF Exposure compliance requirements, a minimum separation distance of 8 in (20 cm) must be maintained between the equipment and all persons during normal operation.

Contains FCC ID: 2AC7Z-ESPWROOM32U

ISED Canada Compliance Statement:

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS. Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage ;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

To comply with ISED RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.

Afin de se conformer aux exigences d'exposition RF ISED, cet appareil doit être installé pour fournir au moins 20 cm de séparation du corps humain en tout temps.

This Class B digital apparatus complies with ICES-003 of Canada. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. CAN ICES-003(B) / NMB-003(B) - IC: 21098-ESPWROOMUE.

Technical Support
8:00 AM - 4:30 PM EST Monday-Friday
815.675.7000
email: techsupport@Intermatic.com
www.Intermatic.com

Visit www.Intermatic.com to download Intermatic Optimizer System manuals, or scan the QR code.



Scan this QR code to visit
the Optimizer website at
www.intermatic.com

Intermatic Optimizer System Manuals:

Intermatic Optimizer System App User's Guide
 Intermatic Optimizer System Installation Guide
 Intermatic Optimizer System Quick Start Guide
 Intermatic I-Pure Salt Chlorinator Installation and User's Guide

Contents

HOME	5	Account Info.	34
Pool (Filter Pump) [On/Off]	12	Change Password	34
Spa (Filter Pump) [On/Off]	12	Delete Account	34
Spillway (Filter Pump) [On/Off]	12	Transfer Ownership	34
Temperature and Pump Speed Controls	12	Questionnaire	34
Equipment Control	8	Logout	34
Pause System	22	Support	35
HOME (icon)	5	Contact Intermatic	35
OptiTouch Button	19	Your Pool Service	35
Schedules	20	Board Information	36
Egg Timer Settings	30	App Version x.xx.	36
Settings	23	Terms and Conditions	36
System Setup Wizard	37	Privacy Policy	36
Equipment Configuration	27		
Configuration Info.	28		
Temperature Sensors	28		
Sanitizers & Chemistry	28		
Temperature Sensors	28		
Backup/Restore	28		
System Options	30		
Wi-Fi Settings	30		
Notification Settings	30		
Show Spillway	30		
Egg Timer Settings	30		
Heater Cool Down (5 mins.)	31		
Daylight Savings Observed	31		
Outdoor Panel Beeps	31		
Temperature Default Settings	31		
Pump Freeze Protection	32		
Factory Reset	33		

Optimizer® System Overview

The Intermatic® Optimizer system for pool/spa is a powerful pool and spa automation control system that offers anytime, anywhere remote access to control your pool and spa. From your iPhone®, iPad® mobile digital device or an Android® wireless device. Control multiple pools and spas and easily switch between them with advanced iOS and Android interfaces.

Optimizer Wallet: (→P.27). This innovative Optimizer system app feature can capture all of your pool related equipment pictures, receipts, and water tests. Conveniently use your smart phone to take pictures and then store them in a secure location on your Intermatic Optimizer system app.

The Optimizer system for pool/spa system is compatible with popular variable speed pumps and color LED pool and spa lights and includes real-time pump speed (RPM) control for custom filtration modes.

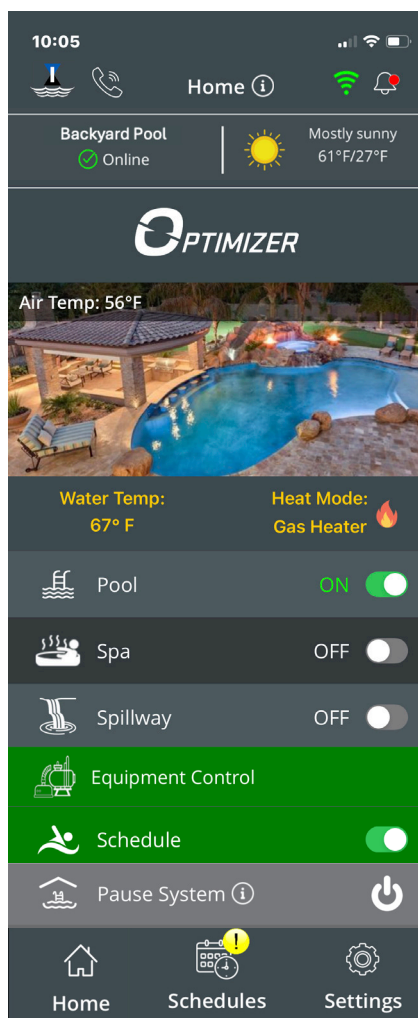
- **Backup/Restore System Settings:** Use the Backup feature to create backups of the Optimizer system configuration (maximum of 10) to the Intermatic cloud. For more information see (→P.29).
 - **Schedules:** Configure a total of 12 schedules for pool and spa equipment, (→P.20).
 - **Egg Timer:** A 24 hour count down timer, default time is 12 hours, which can be changed. (→P.30).
 - **Heater Water Set Temperature:** From the Home page, tap Water Temp. To set or adjust the pool and spa water "Set Temperature". Tap Heat Mode to turn the heater on/off or to change the heater set point (→P.12).
- Note: From the Schedules page (→P.20). You can also set the heat "Set Point".*
- **Frequently Asked Questions.** (→P.52).
 - **Troubleshooting.** (→P.52).

Home

From the Intermatic® Optimizer system app Home page you can remotely control and monitor your pool/spa equipment. (→P.6).

Intermatic Optimizer system model: Nine auxiliary system (AUX 1-9). For more information, please refer to the Intermatic Optimizer System Installation Guide.

Note: For a list of compatible pool equipment. (→P.58).

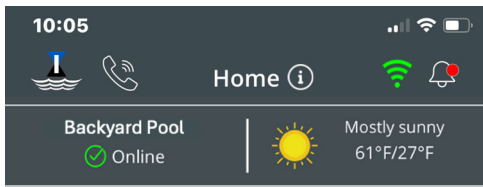


Optimizer System App Home page

HOME PAGE OVERVIEW

From the Home screen you can view the current status of your pool/spa connected equipment including temperatures, schedules, and heating status.

Mobile Device Time: Displays the time on the mobile device running the Optimizer system app. *Note: To change location and time zone see Update Pool (→P.24). Also, see Daylight Savings Observed (→P.31).*



Phone icon: Tap to display the Intermatic support information. Submit an Email request to Intermatic customer support. (→P.35).

Home: Tap to view Home page feature descriptions.

WiFi Signal Strength (SS) Icon (displays different signal colors): Tap to display the current WiFi signal strength (dBm) connection to the home router wireless network (SSID):

(4 bars) RSSI: -40 to -60 dBm. SS: Green - Excellent signal.

(3 bars) RSSI: -61 to -70 dBm. SS: Green - Good signal.

(2 bars) RSSI: -70 to -80 dBm. SS: Yellow - Poor signal (Consider using an Extender)

(1 bar) RSSI: -85 to -90 dBm. SS: Red - Need to use an extender. (→P.56).

Note: Also, see Board Information for the current WiFi signal strength reading the WiFi SSID. Home > Settings > Support > Board Information. (→P.36).

Notifications: Tap the Bell icon to view current Notifications and System Alerts. Notifications displays current schedules and Egg Timer settings in progress.

System Alerts: A Red dot on the Notification bell icon indicates a system alert has occurred. Tap Systems Alerts to view the system alerts for your pool and other Information about pool systems (if available).

Clear All: Tap Clear All to delete all notifications and Systems Alerts. To enable or disable Notifications for your pool system or other registered Intermatic pool systems. (→P.30).

Pool Name: Tap the pool picture on the Home page to view the pool information. Tap the gear icon (on the Pool List page) to change the pool name and other pool related information. See Pool List (→P.24). The pool name and other information is entered at the initial pool registration. (→P.38).

Online: Green check indicates the Optimizer system app is connected via WiFi to the system.

Offline: Red X indicates the Optimizer system app on the mobile device is offline and not connected to the home WiFi router. This situation may be temporary. Connection will resume after a few minutes or less.

Note: If the Optimizer system loses the home router WiFi Internet connection, the Optimizer system will continue to run assigned schedules (pumps, lights, heater) until the connection is resumed.

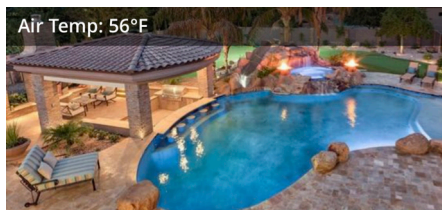
Weather (tap to display a five day weather forecast for your location): Displays the current and forecast local weather conditions for the pool location, via the home router WiFi Internet connection. Tap Weather See Register Account. (→P.40).

HOME OVERVIEW (Continued)

Service/Timeout Mode: When the Optimizer system is in maintenance mode, "Service Mode" or "Timeout Mode" is displayed. For more information refer to the Optimizer Installation Guide.

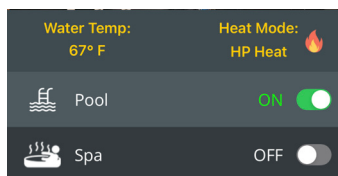


Air Temp: (56°F) Displays the current air temperature for the pool location. The system time is synchronized to the Internet. To change location and time zone see **Update Pool** (→P.24). Also, see **Daylight Saving Observed** (→P.31).

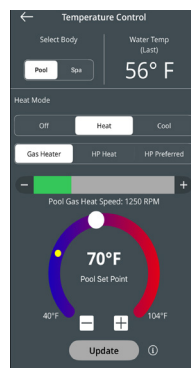


Pool Picture: Pool List. (→P.24). Displays a picture of your pool (or the active pool) on the Home page. To change the picture, tap the picture, swipe to select a new picture from the pictures added during initial setup. Select Set as Active. Tap x to return to the Pool List page. Also see **Settings > My Pool List** (→P.24), to add a new user, update name and location, transfer ownership and view and select other Optimizer systems when shared. Also, see **System Setup Wizard > Step 1: Add a Pool** (→P.38 and 26).

Water Temp: The current water temperature is displayed when the filter pump is manually switched on for Pool, Spa or Spillway, or when a schedule starts. Water Temperature control, requires an installed water temperature sensor. *Note: A maximum of two (2) heat sources can be configured for one pool system. See (→P.12).*



Heat Mode: Temperature Control: Tap Water Temp/Heat Mode to display the Temperature Control page (→P.12): See Heat Source User Options Table (→P.18). Turn the heat source Off or On (Heat), select the heat source, set the pump speed and the Pool or Spa Set Point water temperature. *Note: A single heater can be connected to the Optimizer system via one of the RL 1-4 low voltage dry contacts. For example: One gas heater and solar or a heat pump and solar (not two gas heaters or two heat pumps).*



Adjust the pool or spa PUMP SPEED associated with the selected Heater: Use the - and + to adjust the pump speed. See page (→P.12).

Pool, Spa and Spillway information: See (→P.12).

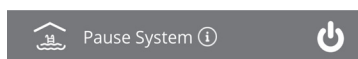
Equipment Control: Turn On/Off, a water feature, lights, and generic equipment (→P.19).



Schedules: Indicates a schedule is running. Display a Green banner on the Home page. Tap Schedules icon on the Home page to schedule equipment (→P.20).



Pause (Home Page): Tap to turn OFF all equipment and stop Schedules. To resume equipment operations, tap Schedules on the Home page, and tap "Resume All Schedules".



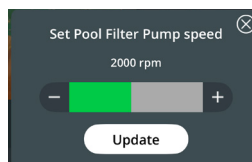
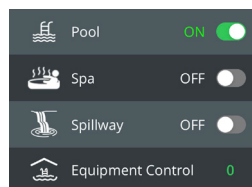
HOME OVERVIEW (Continued)

Turn On/Off the pool filter pump (VSP)

The main pool filter pump is controlled from the Home page. To turn the pool pump on or off for the Pool, Spa or Spillway, tap the On/Off pump switch. Tap Pool, Spa or Spillway to display the pump speed control. Tap and hold the green bar (or use the -/+) to increase or decrease the pump speed from 1100 RPM to 3450 RPM. Tap **Update** to save the pump speed setting.

Note: If a salt chlorinator, UV, ozone, or a chemical monitor device is being used, the device is on only when the pool filter pump is on. For more information, see Associated AUX (→P.48).

Adjust the pool/spa pump speed: Tap pool, spa (or spillway) to display the current pump speed. Use - and + to adjust the pump speed. Tap **Update** to save the setting. See (→P.12)



Spillway On/Off button: To turn the pool filter pump on to create spillway effect.

Note: To show or hide Spillway on the Home page (→P.30). Spillway displays for pool/spa combo. Spillway does not display for single body of water systems.

Equipment Control (→P.19): Tap Equipment

Control to view the current status of the equipment.

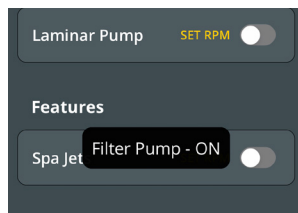
Turn equipment On/Off. Tap the equipment name to adjust a pump speed (RPM). Tap **Lights** to view the current light setting or change the light show or fixed color.



Note: The pool filter pump controls (On/Off and speed (RPM)), are displayed on the Home page. Tap Pool to display the pump speed (RPM) and the On/Off button.

Note: Manual mode: If equipment is turned ON, and not manually turned OFF, it will run for 12 hours and stop.

Note: if you manually turn on any equipment circuit, the default Egg Timer time-out is 12 hours. This assures the equipment will not run more than 12 hours. Use the Egg Timer Settings feature to change the default 12 hour run time. (→P.30).

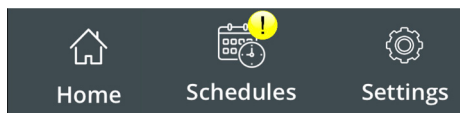


HOME OVERVIEW (Continued)

Pause System: Tap Yes to stop all connected equipment and stop all scheduled programs for today. To resume equipment operations, tap Schedules on the Home page, and tap "Resume All Schedules".



Home: Home page. Tap Home icon from other pages to return to the Home page. (→P.6).



Schedules (Home Page): Yellow dot indicates schedules are stopped. To schedule equipment, see (→P.20).

Schedules: (Displays a Green banner) on the Home page when a schedule is running. Does not display on the Home page if no schedules are configured.

Tap to view and update current daily pool/spa filtration schedules. Tap + to add a new schedule for your pool, spa, or spillway.



Create a total of 12 schedules. Select a Fixed Time, or Sunrise/Sunset (start/stop time). Select the type of pump, heater (heat and cool, gas heater), Light, Sanitizer and Features.

Tap to view and update current daily pool/spa filtration schedule. Tap + to add a new schedule for your pool, spa, or spillway. Select a Fixed Time, or Sunrise/Sunset (start/stop time). Select the type of pump, heater (heat and cool, gas heater), Light, Sanitizer and Features. (→P.21).

Note: If the filtration pump is turned off while running a schedule, the schedule will stop for the remainder of the day unless it is resumed.

Settings:(→P.23). Tap Settings > Setup System Wizard.

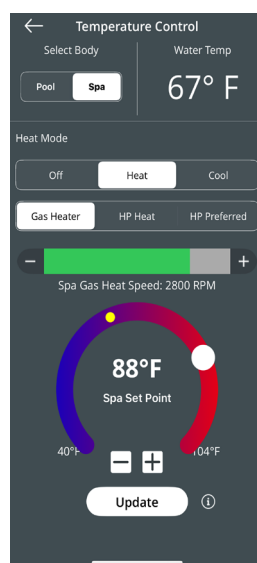
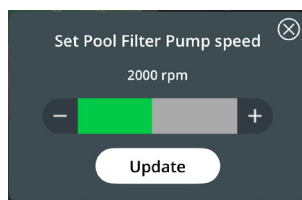
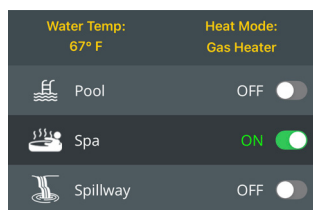
Turn the Spa on and activate the heater

- Tap the Spa ON/OFF button (Green is On) to turn pool filter pump ON or OFF.
- Tap Spa to display the filter pump speed. Tap and drag the green bar or use the -/+ to adjust the pump speed (RPM). Tap Update to save the setting.
Note: When the spa is on, the pool filter pump will turn on and rotate the return/suction valve actuators to direct water into the spa. The pump will run at the desired speed as set on the Temperature Control page.
- Tap Heat Mode on the Home page to display the Temperature Control page.
- Tap Heat and select the heat source (Gas Heater).
- Tap and hold the White Dot to adjust the Spa Set Point water temperature (or use -/+ to adjust the Set point).

Note: A Yellow dot on the dial indicates the current actual spa water temperature,



Note: The filter pump must be running before the heater will turn on. The heater will turn on (flame displayed) and heat the water when the heater "Set Point" temperature is higher than the actual pool or spa water temperature.



Spa Heat Operations

When the Spa button is turned on and a heat mode is selected, and the desired set temperature is higher than the water temperature the following spa operations will start:

- The filter pump will turn on.
- The intake and return valve actuators will turn to Spa Mode.
- The heater will fire and a heat flame icon will appear on the Heat Mode section of the Home Screen.
- **Salt Chlorinator in Spa Mode:** When the Optimizer system detects that the system is in spa mode, power to the chlorinator is on for one (1) minute and powered off for 19 minutes repeatedly, this helps to reduce the chlorine output to 5% to avoid a chlorine over-production in the spa.

Turn the Spa on and activate the heater (Continued)

Switching from Spa to Pool mode

To switch from Spa to Pool mode, tap the Pool On/Off button, this will turn spa mode off and the pool mode on.

Pool mode operation

- **Valve Actuation:** The pool/spa valve actuators rotate to direct water flow from the spa back to the pool. This process takes approximately 40 seconds.
- **Pump and Heater Transition:** The intake and return valves will reposition themselves from Spa mode to Pool mode. The filter pump will continue to run for five (5) minutes after turning it off to allow the heater to cool down.
(Refer to Heater Cool Down (→P.31).

Schedules (view, turn On/Off). (→P.20): If a schedule is currently running, it displays in Green on the Home page. Tap to access the Schedules page. Tap "Stop All Schedules" to stop all schedules. Tap the Schedules icon at the bottom of the Home page to view, update or add a schedule.

Resume and restart all Schedules (after the system has been paused): Tap Yes to stop all connected equipment and interrupts and all scheduled programs for today. Resume and restart all Schedules: Go to the Schedule page and select "Resume All Schedules" to restart any schedules today. Otherwise, schedules will automatically resume tomorrow.

TEMPERATURE AND PUMP SPEED CONTROLS (pool and spa)

To adjust the pool/spa water temperature, tap **Heat Mode** on the Home page to display the Temperature Control page. *Note: The pool filter pump must be running before the heater will turn on.*



Temperature Control page: Adjust the pool or spa water Set Point temperature (for pool/spa combo system). You can turn the Heat Mode off, select the heat source and set the pump speed. The Set Point is the desired water temperature compared to the actual water temperature displayed (top right of this page).

Note: A maximum of two (2) heat sources can be configured for one pool system.

Heat Mode Pool and Spa Options: (→P.18, Heat Source User Options Table). See Wizard Heater Setup Step 7 (→P.47). Select OFF, Gas heater (→P.13), Solar Only, Solar Preferred (→P.14), Heat Pump, Heat Pump Preferred. *Note: To add a heat source or other equipment, see Settings > Equipment Configuration. (→P.27). Note: For heat and cool applications, see Heat Mode Table (→P.18).*

Set the Pool or Spa Set Point water temperature: Set the set point water temperature higher than the actual water temperature (indicated by a Yellow dot on the temperature dial). This will activate the heater to fire to reach the desired "Set Point temperature". Tap and hold the pointer (or tap - or +) until the desired "Set Point temperature" degree is displayed.

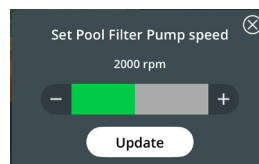
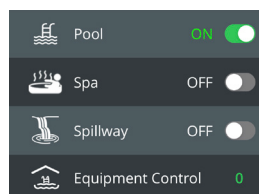
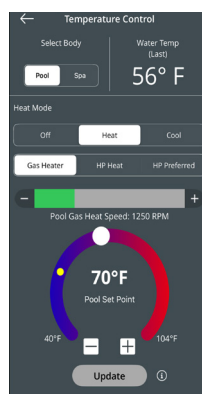
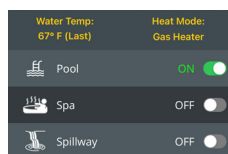
Note: Pool and Spa can have different temperature set points. Tap Update, to save the heat setting and return to the Home page to view the current water temperature and heater status.

Adjust the pool/spa pump speed from the Home page:

You can manually adjust the pool/spa filter variable speed (RPM) pump, tap Pool, Spa or Spillway. Tap and hold the speed slider (-/+) or tap hold and drag the Green bar left/right to increase or decrease the pump speed starting from 600 RPM to 3450 RPM. Tap Update to save the pump speed setting.

Note: Heater pump speed of 2800 RPM is recommended, and the Spillway pump speed of 2800 RPM, depending on the size of the spillway Spa mode operation. Also see Associated AUX information, (→P.48).

Adjust the pool or spa pump speed from the Temperature page. Use - / + to adjust the pump speed for the pool or spa. The current pump speed is displayed under the Heat Mode.



HEAT MODE (GAS HEATER)

Heat Mode: When the gas heater is on, a heat flame icon is displayed. Gas heater OFF is displayed when the heater is off.

Water Temp:
67° F

Heat Mode:
Gas Heater 

Tap **Water Temp** / **Heater Mode**: to access the **Temperature Control** page.

Note: Heat Modes are set either manually or from a schedule. Note: A maximum of two (2) heat sources can be configured for one pool system.

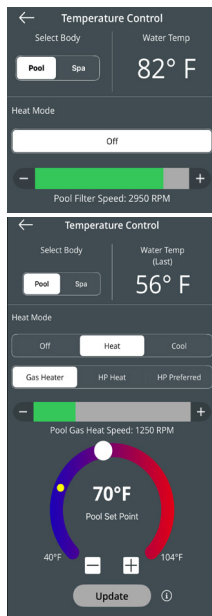
Water Temp: Displays the current water temperature: "Last" indicates the current water temperature while the pump was last running.

Tap **Water Temp** / **Heat Mode** to display the **Temperature Control** page (→P.12):

To access the **Temperature Control** page, from the **Home** page, select **Heat Mode** (Off is the default the **Heat Mode**).

Heat Mode (Gas Heater): Off (turn the heat source off), Heat (activate the heat source). Set the filter pump speed and the Pool or Spa Set Point water temperature. *Note: Make sure the Pool or Spa "Set Temperature" is higher than the Water Temp., so that the heater will activate to reach the desired "Set Temperature". Adjust the Pool Temperature dial to the desired temperature. Tap Update to save the new set temperature set point. Tap POOL or SPA to view or change the current water temperature for pool/spa combo systems.*

Schedules (→P.20): When you create a new schedule for the pool filter pump, you can assign the pump RPM and select a heat source.



Heat Source Flame Icons

The Heat Mode flame icons shown below display when the filter pump is on and the heat source is active. An active heat source is when the "set point" temperature is higher than the actual water temperature.

Note: Two (2) heat sources can be installed for one Optimizer system.

Heat Mode:
Gas Heater 

Heat Mode:
HP Preferred 

Heat Mode:
HP Preferred 

Heat Mode:
HP Heat 

Heat Mode:
HP Cool 

Heat Mode:
Solar Only 

HEAT MODE (SOLAR)

Heat Mode (Solar): When solar heat is on, the solar panel icon is displayed. Solar heat OFF is displayed when the solar heat is off (not available). *Note: Solar heating occurs when the solar heat temperature is greater than the pool water temperature by 6°F.*

Water Temp:
12° F

Heat Mode:
Solar Only



Tap **Heat Mode** to access the **Temperature Control** page. Heat modes are set either manually or from a schedule. *Note: Only one heat mode can be selected, however a maximum of two (2) heat sources can be setup for one pool system.*

Water Temp: Displays the current water temperature: "Last" indicates the current water temperature while the pump was last running.

Tap Water Temp/Heat Mode to display the Temperature Control page (→P.12): From this page you can turn the heat source Off, select the heat source, set the pump speed and the Pool or Spa Set Point water temperature.

Setup Solar Only or Solar Preferred Heater using the Pool Filter Pump with a Solar Valve: See Heat Source User Options Table (→P.18).

Solar is configured under "Pumps" (solar pump) or "Valve Actuator" (solar valve), see System Configuration. From Home, tap Settings > Equipment Configuration > System Configuration. (→P.27).

Setup Solar Only or Solar Preferred heater using a Dedicated Solar Pump:

Solar Only: Select Solar Only for one heat source using solar panels.

Solar Preferred: Select Solar Preferred when using another backup heat source, such as a gas or heat pump. If the solar heat cannot provide enough heat, due to cloudy conditions or inclement weather, the gas heater can provide the required heat.

Note: The Solar Preferred option is only available for two heater configuration (gas heater + solar and heat pump + solar)

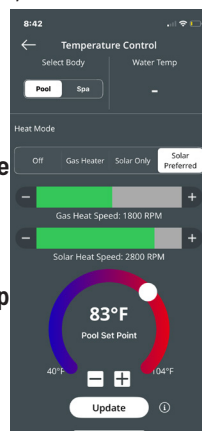
From Home, tap Settings > Equipment Configuration > System Configuration.

(→P.27). *Note: You cannot configure the solar valve and dedicated solar pump together. Either configure the solar valve actuator to use the pool filter pump or use a dedicated solar pump, as shown below. You cannot use both.*

To configure solar heat to use a dedicated solar pump: Tap + to add equipment. Tap Equipment Category, select Pumps, tap Equipment Type, select Variable Speed or Single Speed, tap Equipment Function, select Dedicated Solar Pump. Continue to enter the other required information.

or

To configure solar heat to use the pool filter pump: Tap + to add equipment. Tap Equipment Category, select Valve Actuator, tap Equipment Type, select Valve Actuator, tap Equipment Function, select Solar Heater Using Filter Pump. Depending on the Optimizer system model, under select Valve Output, select VL3 - Available or VL4 Available. Continue to enter the other required information.



HEAT MODE (SOLAR) Continued

Heat Mode Pool and Spa Options (→P.47): Select OFF, Gas heater (→P.13), Heat Pump, Heat Pump Preferred.

Note: To add a heater or other equipment, see Settings > Equipment Configuration. (→P.27).

Note: The filter pump must be running and the solar temperature (measured at the collector) exceeds the pool return temperature by a differential (typically 5°F–7°F).

Solar Pool Heating System Control: Solar heating will activate whenever the pool/spa valves are set to Pool, Spa, or Spillover mode. A solar temperature sensor must be installed near the solar collector array to detect whether sufficient solar energy is available.

Solar Heating Activation Conditions:

Solar heating occurs when the following conditions are met: The filter pump is running the solar temperature (measured at the collector) exceeds the Water temperature by a 6°F differential.

Solar 3-Way Valve Actuator with drain back: When solar heat is available and the pool filter pump is running, the solar 3-way valve opens to divert water to the solar collector panels.

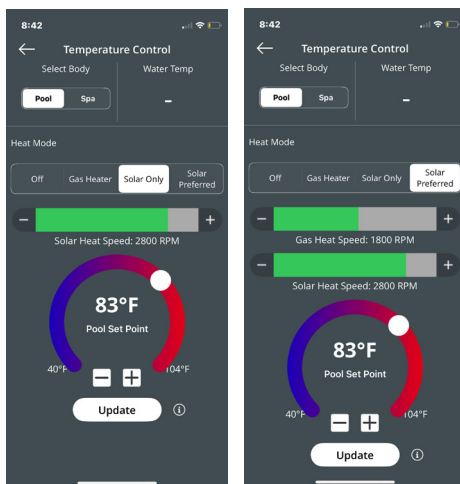
Using Solar and the Solar Actuator: When solar is enabled as a heat source, the pool water temperature sensor helps determine whether the solar actuator valve should open. If the system detects that the ambient air temperature sensor (located near the solar panels on the roof) is at least 6°F warmer than the pool water temperature, and Solar heating is enabled, and the desired set temperature is higher than the current pool water temperature, then the system will open the solar valve actuator, allowing water to be pumped to the solar panels for heating.

Heat Mode Pool and Spa Options (→P.47): Solar Only, Solar Preferred (→P.14), Heat Pump, Heat Pump Preferred.

Note: The Solar "Preferred" option is only available for a two heater configuration.

To add a heater or other equipment, see Settings > Equipment Configuration. (→P.27).

Note: The pump must be on before the heater will turn on. The pool filter pump is not displayed on the Equipment Control page, see the "Pool" control on the Home page.



HEAT MODE (HEAT PUMP)

Heat Mode - HP Heat (On): When the heat pump is on, the HP Red and Blue (heat/cold) flame icon is displayed. The Blue flame displays when in Cool mode. Heater OFF is displayed when the heater is off. Tap **Water Temp./Heater Mode:** to access the **Temperature Control** page. *Note: Heat Modes are set either manually or from a schedule. A maximum of two (2) heat sources can be configured for one pool system.*

Water Temp: Displays the current water temperature: "Last" indicates the current water temperature while the pump was last running. *Note: Heat Pump and Heat Pump Preferred operate only if the air temperature is more than 50°F. If the air temperature is less than 50°F the heat pump will not run.*

Tap **Water Temp / Heat Mode** to display the **Temperature Control** page (→P.12): From this page you can turn the heat source Off, select the heat source, set the pump speed and the Pool or Spa Set Point water temperature.

Schedules (→P.20): Create a daily filtration schedule for the pool filter pump, and set the filtration pump speed (RPM) to run the duration of the schedule.

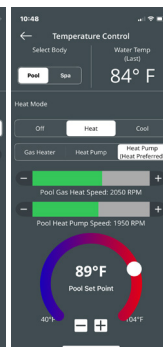
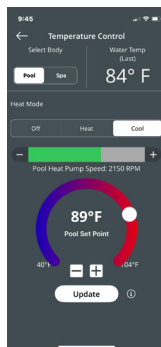
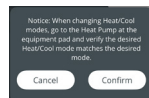
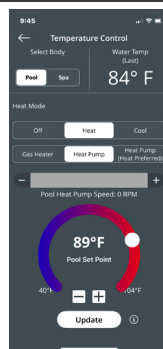
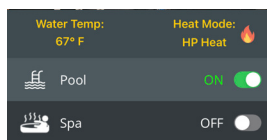
See **Heat Source User Options Table (→P.18).**

Heat Mode Pool and Spa Options (→P.47): Select OFF, Gas heater (→P.13), Solar Only, Solar Preferred (→P.14). *Note: To add a heater or other equipment, see Settings > Equipment Configuration. (→P.27). Note: The pump must be on before the heater will turn on. The pool filter pump is not displayed on the Equipment Control page, see Pool on the Home page.*

Heat Pump (Heat and Cool) Pool Temperature Setting: The heat pump is designed for continuous operation to maintain the desired pool or spa temperature.

Note: The Optimizer system will not allow a Heat Pump to run when Air Temperature is less than 50°F.

For normal operation, set the desired pool temperature (heating point) to around 78–82°F for swimming comfort. In cooling mode, set the cool point according to your comfort. The Heat pump is designed to run continuously.



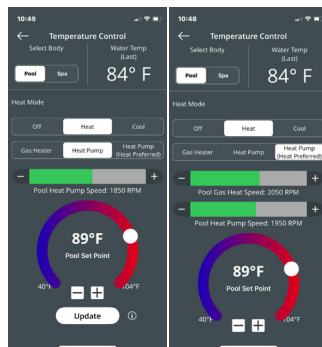
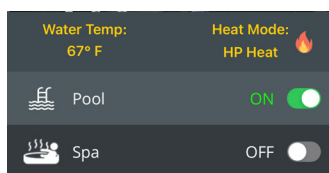
HEAT MODE (HEAT PUMP) Continued

Heat Pump (Heat and Cool) – Pool Temperature Control Dial

Temperature Display: The Set Point page shows: Current pool temperature Heat and Cool Set Point minimum and maximum allowable temperature settings.

To adjust the heat pump settings:

- **Select Mode on Heat Pump:** On the heat pump unit, first set the mode to either Heat or Cool, depending on the desired operation.
- **Set Heat Point (Red):** Tap and hold the red temperature pointer (Heat Set Point). Drag the pointer to the desired pool/spa temperature for heating.
- **Set Cool Point (Blue):** Tap and hold the blue temperature pointer (Cool Set Point). Drag the pointer to the desired pool/spa temperature for cooling.
- **Save the Settings:** Tap Update to save the temperature settings. Tap the Back arrow to return to the Home screen.



Heat Pump (Heating & Cooling) – Pool Temperature Settings and Operation

- The heat pump is designed for continuous operation to maintain the desired pool or spa temperature.
- For normal operation, set the desired pool temperature (heating point) to around 78–82°F for swimming comfort.
- In cooling mode, set the cool point according to your comfort.

Heat Pump Efficiency Tip

- Water flow rate plays a key role in efficiency. For most systems, lower flow temperatures (colder water entering the heat pump) allow for better energy transfer.
- Instead, ensure the heat pump is receiving adequate water flow and the filter is clean, which helps maintain efficiency.

HEAT SOURCE USER OPTIONS TABLE

The following table show single and dual heat modes applications for the Optimizer system. The Optimizer system allows single or dual heater modes (heat pump).

Note: To add a heater or other equipment, see *Settings > Equipment Configuration* (→ P.27).

Single Heating Modes	Heating/Cooling Applications Available
Gas Heating	Off, Gas Only
Heat Pump Heating	Off, Heat Pump Only
Heat & Cool Pump Heating (and Cooling)	Off, Heat & Cool Pump (Heating), Heat & Cool Pump (Cooling)
Solar Heating (Solar Pump / Solar Actuator)	Off, Solar Heating Only
Solar Heating (Solar Pump)	Off, Solar Heating Only
Dual Heating Modes	Heating/Cooling Applications Available
Gas + Heat Pump	Off, Gas Only, Heat Pump Only, Heat Pump Preferred
Gas + Heat & Cool Pump	Off, Gas Only, Heat & Cool Pump Only (Heating), Heat Pump Only (Cooling), Heat & Cool Pump Preferred (Heating)
Gas + Solar (either Solar Actuator or Solar Pump)	Off, Gas Only, Solar Only, Solar Preferred
Heat Pump + Solar	Off, Heat Pump Only, Solar Only, Solar Preferred
Heat & Cool Pump + Solar	Off, Heat & Cool Pump Only (Heating), Heat & Cool Pump Only (Cooling), Solar Preferred (Heating)

Equipment Control

Tap Equipment Control to display the Equipment Control page. Tap the equipment name to turn it on or off, or change a setting.

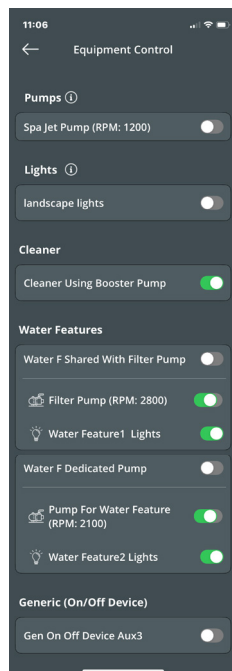
Note: The pool filter pump On/Off controls are show on the Home page.

To configure the following features, see System Configuration (→P.27).

- **Control the Water feature pump and lights:** A water feature can be setup to control the assigned pump and lights. Tap the Water Feature name ON/OFF slide button to turn on the equipment (Green is on). Tap Lights to display or change the current light show or fixed color settings. Tap the pump name to turn the pump on/off or to change the pump speed (RPM). See Water Feature Setup (→P.50).
- **Lights:** Turn a light on/off. Tap to change the pool light show or select a fixed color. For more information about light features. (→P.49).
- **Generic (On/Off Device):** Turn on/off optional equipment such as an air blower (bubbler) if installed.



Equipment Control

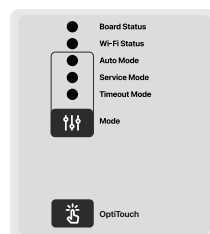


OptiTouch Button

For Pool Service or Maintenance: The OptiTouch button is located on the Optimizer system Load Center and Power Center control panel. Press the OptiTouch button to turn the main pool/spa filter pump ON/OFF.

Note: For Board Status and WiFi Status LEDs and Setup Bluetooth/WiFi using the Optimizer system control panel to connect to the Optimizer system app. (→P.41).

Note: For more information about the Mode button, Auto Mode, Service Mode and time out Mode, please refer to the Intermatic Optimizer System Installation Guide.



Optimizer system control panel

HOME | SCHEDULES SETUP

Pool/Spa Daily Schedule (Using a Variable Speed Pump)

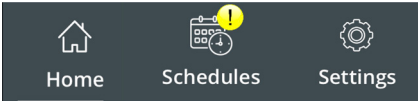
A variable speed pump is an energy efficient pool pump that runs at variable speeds (450 - 3,450 RPM), and can be set to lower speeds when needed to save energy.

Depending on your pool size, it's best to run the daily pool/spa filtration schedule for at least eight (8) hours per day.

It's best to run the daily filtration schedule at the hottest part of the day to ensure the pool/spa is chemically balanced. Chemicals work effectively when pool/spa water is being circulated.

SCHEDULES

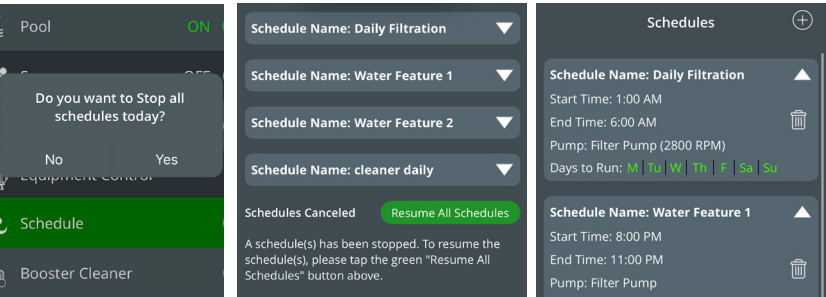
When schedules are active a Green "Schedules" banner is displayed on the Home page. To view all schedules, tap the Schedules icon on the Home page.



To stop all schedules: From the Home page tap the Schedule On/Off button, to turn on (Green banner displayed) or off.

From the Schedules Page, tap Stop All Schedules or Resume All Schedules.

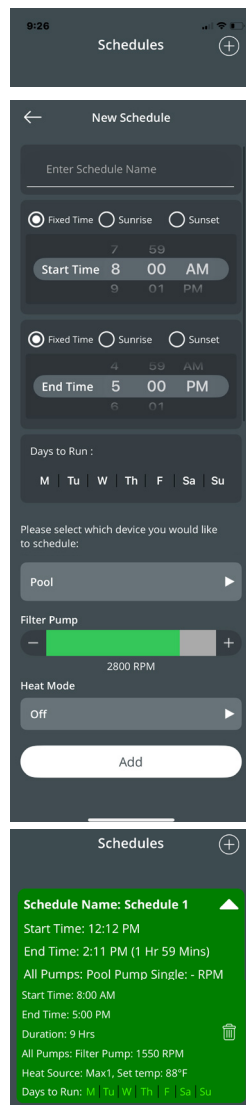
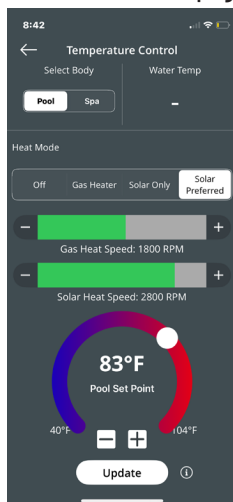
To view schedule details, tap a schedule on the list. To update a schedule, tap Stop All Schedules, then select a schedule to update. To resume all schedules, from the Schedules page, tap Resume All Schedules. The schedules will display on the Home page.



SCHEDULES

Add a new schedule: To add a new schedule from the Home page, tap the Schedules icon. *Note: Multiple scheduled programs can be run at the same time.*

- From the Schedules page, tap Add (+) to add a new schedule (12 maximum). The New Schedule page is displayed. Enter a schedule name.
- Select **Fixed Time** (system time is synchronized to the Internet) or **Sunrise**, **Sunset**. Enter the Start and Stop time to run the pump.
- Days to Run:** Select the days to run the schedule: **M, Tu, W, Th, F, Sa, Su**.
- Select the **equipment (item)** to schedule: Tap Pool, Spa, Spillway or select other assigned equipment listed to include in the schedule.
- Filter Pump (Only displays if Pool, Spa, or Spillway is selected)** : Adjust the filter pump speed (RPM) using - or +. *Note: You can also add Lights or Generic devices or select equipment from the list that was previously setup.*
- Heat Mode:** (Only displays if Pool, Spa, or Spillway is selected): Tap the displayed heater. The heat Temperature Control page is displayed. Select the Heat Mode and adjust the temperature Set Point for the Pool or Spa then tap Update. Tap the Return arrow (top left of page) to return to the New Schedule page.



SCHEDULES (Continued)

Delete a Schedule: From the Home page, tap the Schedules icon. Tap the schedule name to view the schedule details, tap the trash can icon to delete the schedule.

Note: To Update or Delete an existing schedule, you must stop the schedule first.

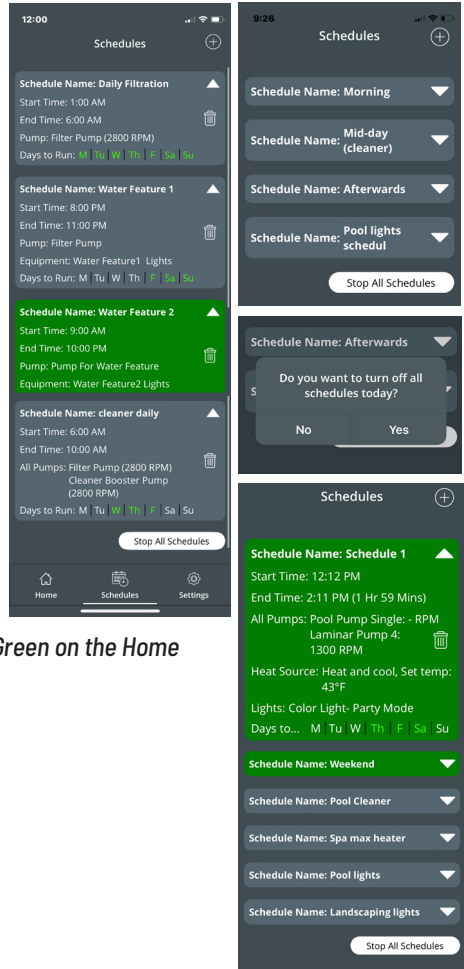
Tap/Resume All Schedules: Tap to display Yes/No message. Tap Yes to stop the selected schedule. Tap No to return to the schedules page. Tap Resume to resume the schedule.

Update a Schedule: Tap a schedule that is currently running (shown in Green) on the Schedules page. Tap Update to display the schedule settings. Tap Update to save the updated schedule.

View a Schedule: Tap a schedule to view the settings.

Tap Add to save the new schedule.

Note: The current schedule is highlighted in Green on the Home page and on the Schedules page.



Pause System: Tap Yes to stop all connected equipment and interrupts and all scheduled programs for today.



- If the pool filter pump for Pool, Spa or Spillway was running, it will be turned OFF. Tap Schedules from the Home page to view the current schedules. Tap "Stop All Schedules" or "Resume All Schedules" to stop or resume schedules.

HOME | SETTINGS

Pool Owner Profile (picture and name).

Tap to view/update profile (→P.5)

My Pool List (Add,a new user, transfer, ownership of the your Optimizer pool system) (→P.24)

Wallet (store pool related receipts/info.) (→P.27)

System Setup Wizard, 1-12 (→P.37)

Equipment Configuration (→P.27 ▲

System Configuration (→P.27)

Configuration Info (→P.28)

Temperature Sensors (→P.28)Backup/Restore (→P.28)

Sanitizers & Chemistry (→P.28)

Backup/Restore (→P.28)

System Options (→P.30) ▲

Wi-Fi Settings (→P.30)

Notification Settings (→P.30)

Show Spillway (→P.30)

Egg Timer Settings (→P.30)

Heater Cool Down (5 mins.) (→P.31)

Daylight Savings Observed (→P.31)

Outdoor Panel Beeps (→P.31)

Temperature Unit Settings (→P.31)

Pump Freeze Protection/Override (→P.32)

Factory Reset (→P.33)

Account Info. (→P.34) ▲

Change Password (→P.34)

Delete Account (→P.34)

Transfer Ownership (→P.34,25)

Questionnaire (→P.34)

Logout (→P.34)

Support (→P.35) ▲

Contact Intermatic (→P.35)

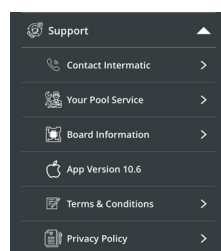
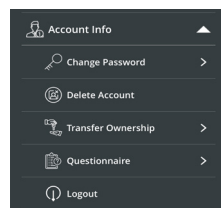
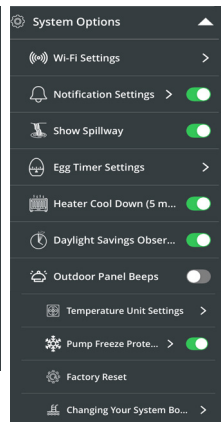
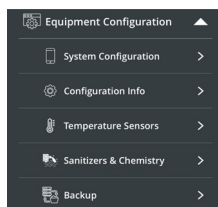
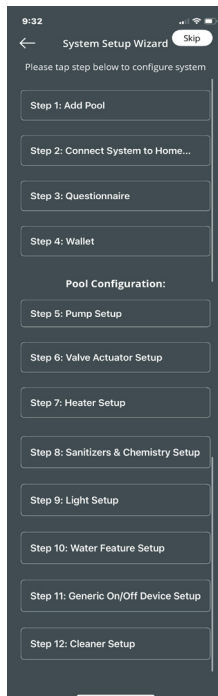
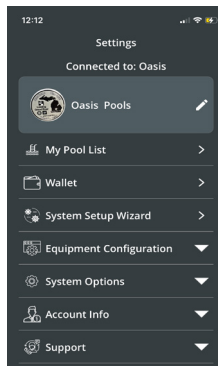
Your Pool Service (→P.35)

Board Information (→P.36)

App Version x.xx (→P.36)

Terms and Conditions (→P.36)

Privacy Policy (→P.36)



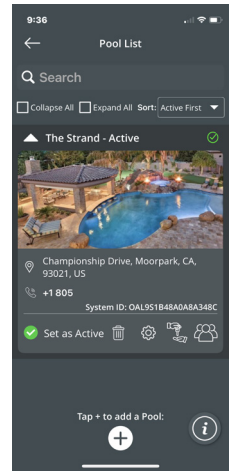
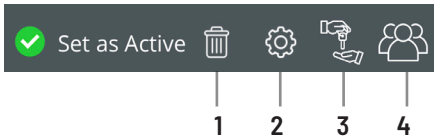
SETTINGS | POOL LIST

Search: Enter the pool owner's name or pool name.

- **Collapse, Expand, Active First (A-Z, Z-A):** Choose how to display the list of available Optimizer system pool systems.

Pool Owner's picture and profile: Displays the pool name, the owner's address, and System ID assigned to the pool.

My Pool List: Remove or add a selected pool system to display on the Home screen. (→P.26).



Set as Active: Check indicates the displayed pool is the set as the active primary pool. Tap the pool picture to select a new picture. Tap Set as Active to update the pool picture displayed on the Home page. (→P.7).

1 Trash Can: Tap Yes to permanently remove the pool from the pool list, which will reset the Optimizer system to the default settings. Tap Cancel to exit.

2 Gear Settings Icon / Update Pool: Tap to display the pool name, address, country, time zone and pictures of your pool. Tap Add Images to add pool pictures. Tap Update to save the information and exit.

3 Transfer Ownership icon: Tap to transfer control of this pool to a new owner. You will not have access to this pool if the transfer of ownership process is complete. Go to (→P.25) for details.

4 People icon: Share access to your pool with another user. Tap + to add a new user's email address. This feature is useful for family members or service personnel to have access to your pool. Go to (→P.26) for details.

CHANGE to a different pool system

- Tap the pool picture. Select Set as Active from the listed available pool systems. Tap Yes to change the primary pool. *Note: If there are multiple pool systems listed, these pools have been previously setup. See System Setup Wizard > Step 1 (Add Pool). (→P.38).*

To ADD a new Optimizer system pool system (tap + at bottom of screen):

- Tap the pool picture on the Home page or tap Settings > My Pool List. Tap + and scan or type the QR code, add the pool name and address.
- Tap Add Images to add the pool image to display on the Home page. Tap ADD to save the pool information. Also see: Settings > System Setup Wizard > Step 1 (Add Pool). (→P.38). Tap + Add Images to add a picture of the pool. Tap Add to save the information.

Transfer of Ownership of the Optimizer System Account



Transfer ownership of your pool

Before transferring ownership of your account to another user read the following:

- There can only be one pool owner, for each pool, However, multiple registered users can also have access to the pool.
- Before transferring your Optimizer system account to a new user remove any billing, and personal information from your account.
- You cannot transfer your Optimizer system account to a user that has not created an Optimizer system account using the Optimizer app. The email account you transfer the system to must be associated with the new user's Optimizer account.
- The new owner must first setup an Optimizer account using the Optimizer app and then let the owner know what email address was used. Only then will the new owner be able to accept the transfer request.

To transfer ownership of your Optimizer system pool: Tap the transfer (hands) icon. The Transfer Ownership page is displayed. Enter the email address of the person you wish to transfer your pool to.

Add a New Pool Owner account: To add a new pool owner, see Register and Login a new pool owner. (→P.24).



12:45

← Transfer Ownership

Please enter the email address of the new owner. This action will transfer control of this pool to the new owner. You will no longer have access to this pool once the new owner accepts the transfer.

Email

Submit

Optimizer system pool ownership

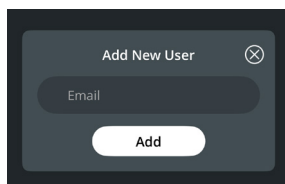
- **After pool construction:** After pool construction: Once pool construction has been completed, after the pool builder has successfully tested the pool system equipment and verified controls and operations using the Intermatic Optimizer system app, they may utilize the transfer ownership process.

Sharing Residential Optimizer System Pools



Add a family member, friends or a pool professional to access your pool.

- **Family, Friends or Service Professionals:** You can share control access to your Optimizer system with other Optimizer app users. You can view existing shares and revoke access for users that have been granted access by tapping the people icon (→P.24). If you have access to multiple pools, you can quickly switch to these pools by selecting the pool in the Pool List and choosing "Set as Active".



- **To allow a person to access your Optimizer system pool:** Tap the (people) icon. The "Add New User" popup is displayed. Enter the email address of the person you wish to share your pool with. This user will receive an email invite, and they will need to create a valid Optimizer account by downloading the Optimizer app. Once they accept, your pool will show in their Pool List. Shared users will only see a trash can icon - they will not see the Settings (gear icon), Transfer Ownership, or Share icons.

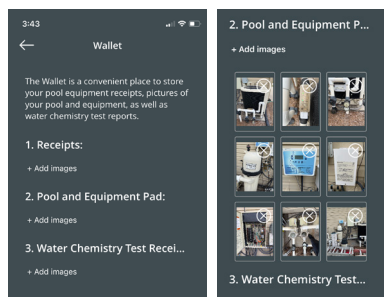
POOL LIST:

- **Pool List:** Displays this page from the Home page
- **Search:** Enter a pool or owner's name to search for
- **Collapse All, Expand All:** Collapse or expand the pool list
- **Sort:** Active first, A-Z, Z-A
- **Pool Address:** Displays the current pool address
- **System ID:** Displays the current pool system identification (ID) number as signed by Intermatic
- **Set as Active:** Green check indicates the current pool is selected
- **Settings:** New pool users information
- **Hand Off:** Add new pool user via email
- **People:** Lists all pool owner's
- **Pool List Names:** Green check indicates active pools

HOME | SETTINGS | WALLET

The Optimizer Wallet is a convenient place to store pictures of your pool, equipment receipts and chemistry test reports. Tap to access the Wallet page.

To access Wallet: From the Home page, tap Settings > Wallet. Also see (→P.43).



HOME > SETTINGS > EQUIPMENT CONFIGURATION > SYSTEM CONFIGURATION

From the System Configuration page you can setup, update existing equipment, add and delete equipment: Pumps, Valve Actuator, Heaters, Sanitizer & Chemistry, Lights, Water Feature and Generic (On/Off Device).

For equipment details, see System Setup Wizard > Pool Configuration (→P.37), Step 5 -10, add equipment. See Backup (→P.28) to backup the system configuration.

Add equipment: From the System Configuration page, Tap + (bottom of screen) to access the Add Equipment page.

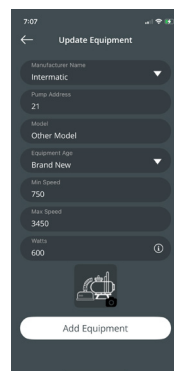
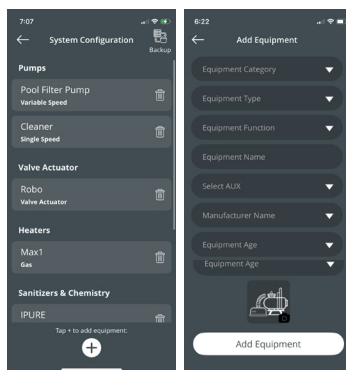
- **Enter the Equipment Category:** Pumps, Valve Actuator, Heaters, Sanitizer & Chemistry, Lights, Water Feature and Generic (On/Off Device).
Note: For detailed equipment information see System Setup Wizard > Pool Configuration (→P.37), Step 5 -12 to add equipment.
- For Sanitizer & Chemistry On/Off control, see (→P.28).
- Equipment Type, Equipment Function and Equipment Name.
- Select the AUX 1-9. Also see Associated AUX information. (→P.48).
- Manufacturer Name and Equipment Age (tap the photo image to add a picture of the equipment).
- Tap Add Equipment or to save the equipment settings. Tap the return arrow to return to the Home screen.

Update Equipment

- Tap the equipment name to access the update equipment page. Update the equipment information then tap Update Equipment to save the settings and return to the System Configuration page.

Delete equipment

- To Delete Equipment, tap the trash can, then yes to delete the equipment from the System Configuration page.



SETTINGS | Configuration Info

Home > Settings > Equipment Configuration > Configuration Info.

View (only) installed equipment and items (pumps, lights laminar, gas heater, valves and temperature sensors) connected to the Optimizer system main circuit board AUX circuit, Relay (RL) 1-4, Valve (VL) - Relay 1: INTAKE, Relay 2: RETURN, 3 & 4, Temperature Sensors: Temp1 Water, Temp2 Solar, Temp3 Air).

- To add and setup pool equipment and devices (pumps, Heaters, Lights, Features, Sanitizer, tap Home > Settings > System Configuration. (→P.27).



SETTINGS | Temperature Sensors

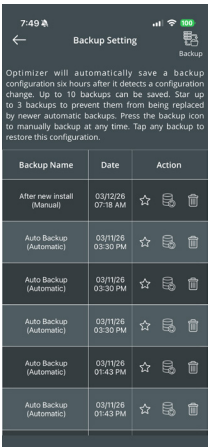
Home > Settings > Equipment Configuration > Temperature sensors. View the current temperature for installed temperature sensors (Water, Solar (optional) and Air). Sensor error conditions are displayed if a sensor is not installed or not working. Temperature sensor errors are also displayed in the Notifications page (→P.30).

SETTINGS | Sanitizers & Chemistry

Home > Settings > Equipment Configuration > Sanitizers & Chemistry. Displays the sanitizers install device (salt chlorinator, chemistry monitor, chemistry controller, ozone generator or UV system). Tap On/Off to turn the sanitizer on or off. *Note: One sanitizer per system. Note: When the Optimizer system detects that it is in Spa mode, the salt chlorinator power is cut to 5% to control chlorine over production to the Spa. So if the Spa runs for 60 minutes, power to the salt chlorinator is on for 3 minutes.*

SETTINGS | Backup

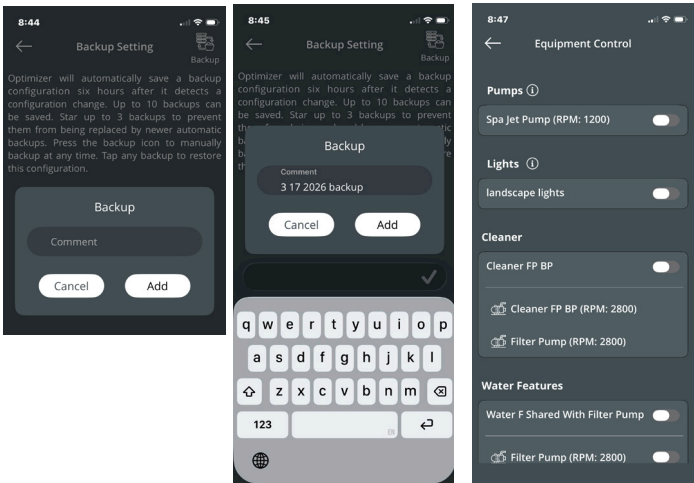
Home > Settings > Equipment Configuration > Backup. The Optimizer system will automatically save a backup configuration six hours after a configuration change (→P.27). Up to 10 backups can be saved to the cloud.



Backup On/Off Button: Tap the Backup icon at the top right of the page to perform a manual backup. If a system configuration setting is changed, the Optimizer system will perform an automatic backup six (6) hours after the change was detected. If a system configuration change is made, a manual backup can also be done.

Star: A star next to the backup name indicates it is an important backup. Tap the Star on any of listed then backups. Three (3) backups can be "Starred" to avoid over-writing an auto-backup. Use the Star feature for important backups, such as the original system configuration after the system is installed. *Note: Starred backups can never be deleted.* Continue to next page.

SETTINGS | Backup (Restore) Continue



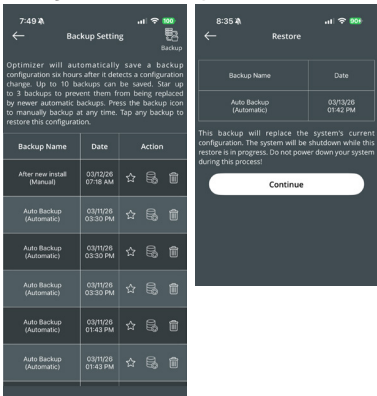
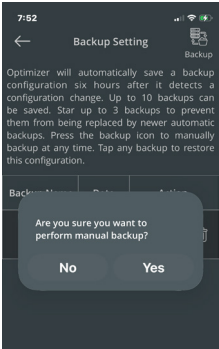
The Equipment Control page displays the Optimizer system equipment configuration, which is backed up to the cloud.

Create a Manual Backup

- On the Backup Settings page, tap the Backup to make a manual backup of the system.
- From the Home page, Home > Settings > Equipment Configuration > Backup
- Tap the Backup icon (top right of page) to display the Backup Setting page.

Restore a System Configuration from a Previous Backup

- Tap on the restore database icon on the backup name row to display the Restore page for that particular backup. From the list of the current 10 backups, select the backup to restore. Tap Continue to start the restore process of the selected backup. *Note: The restored system configuration will override the previous system configuration backup.*



SETTINGS | SYSTEM OPTIONS (→P.23).

SETTINGS | WiFi Settings. See System Wizard - Setup Step 2. (→P.37).

Home > Settings > System Options > WiFi Settings.

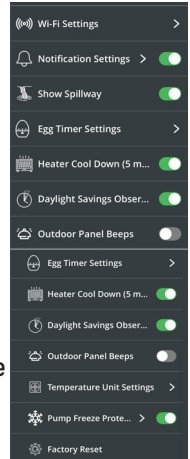
Signal Strength: Displays the current network signal (RSSI) strength (→P.6).

Network Name: Your home router network name.

Status: Online: The Optimizer system is connected to the Intermatic cloud.

Offline: The Optimizer system is not connected to the Intermatic cloud.

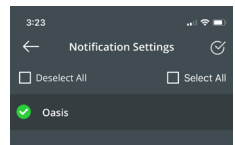
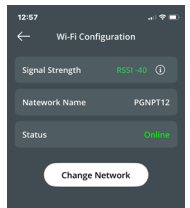
Change Network: See (→P.37). Follow the screen prompts. The home network router WiFi SSID is shown on Board Information (→P.36).



SETTINGS | Notification Settings (On/Off)

Home > Settings > System Options > Notifications Settings. Tap the On/Off button to enable the Notifications option (default is on).

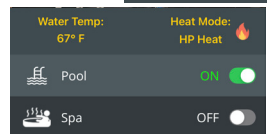
The Notifications feature provides real-time system notifications and alerts. Tap the Notification bell on the Home page to display the System Notifications and System Alerts. A Red dot on the notification bell icon indicates a system status notification or a system alert has occurred which might need attention. Tap Deselect All or Select All to disable or enable notifications for the displayed Optimizer system pool. *Note: The Notification Settings page displays the current pool system and other registered Optimizer system pool systems that can be monitored and controlled.*



SETTINGS | Show Spillway (On/Off)

Home > Settings > System Options > Show Spillway.

The Spillway feature can be shown or hidden on the Home page. Tap the On/Off button to hide this option. The default setting for this option is on. (→P.8). The Spillway feature uses a programmed pump speed. When Spillway is turned ON or scheduled: The system directs the intake valve to pull water from the pool, and the return valve sends it to the spa to generate a continuous spillover. *Note: Spillway mode is primarily for aesthetic circulation, not full spa heating.*

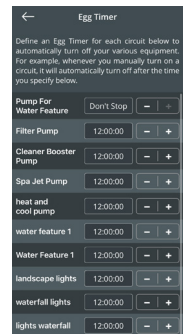


SETTINGS | Egg Timer Settings (12 Hours Default)

Home > Settings > System Options > Egg Timer Settings.

When a circuit is manually turned on, an Egg Timer feature starts a countdown timer for this selected circuit. Each device added has a default egg timer of 12 hours. You can increase or decrease duration in 15 minute increments. For example, you can set the Egg Timer to turn on the spa for five hours to save on gas and electricity. Egg Timers exist for all equipment that has been setup.

Continue to next page



SETTINGS | SYSTEM OPTIONS (Continued)

SETTINGS | Egg Timer Settings (12 Hours Default) (Continued)

- **Set the Countdown Egg Timer:** From the list of configured pool/spa equipment, select the equipment to assign the Egg Timer countdown timer. Tap + or - to increase or decrease the Egg Timer duration counter from 00:01 to 23:45. Tap minus (-) to decrease the duration from 15 minutes, to 3, 2, 1 minute, then at 23:45 tap + to select "Don't Stop".
- **Don't Stop:** When the pool/spa equipment is manually turned on, selecting "Don't Stop" will allow the circuit to continuously run until it's manually turned off.
- When the equipment is turned on manually (schedules do not apply), the Egg Timer countdown timer displays the elapsed time. After the specified time is reached, the circuit will automatically shut-off. Schedules. (→P.20).

SETTINGS | Heater Cool Down (5 mins.)

Home > Settings > System Options > Heater Cool Down.

This feature allows the heater to cool down for five (5) minutes before the pump stops.

SETTINGS | Daylight Savings Observed

Home > Settings > System Options > Daylight Savings Observed

In the US Daylight Savings Time begins on the second Sunday in March and ends on the first Sunday in November. Clocks advance during warmer months so that darkness falls at a later clock time. The states that do not observe Daylight Saving Time (DST) are Hawaii and most of Arizona. Tap the On/Off button to enable or disable this option. The default setting for this option is On.

SETTINGS | Outdoor Panel Beeps

Home > Settings > System Options > Outdoor Panel Beeps

If the Optimizer system Load Center and Power Center outdoor panel beep is set to on, an audible beeping sound can be heard when the System Configuration is changing. Tap the On/Off button to enable this option. The default setting for this option is off.

SETTINGS | System Options | Temperature Unit Settings

Home > Settings > System Options > Temperature Unit Settings

Temperature Unit: Pool/spa water temperature can be displayed in Optimizer system app as Fahrenheit (°F) or Celsius (°C) units. Tap the button to select either Fahrenheit or Celsius.

Note: For water, solar and air sensor installation instructions, refer to the Optimizer System Installation Guide.

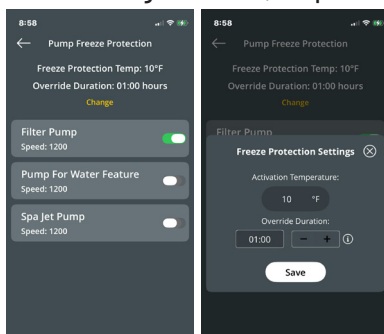
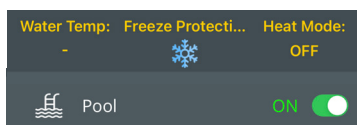
SETTINGS | SYSTEM OPTIONS (Continued)

SETTINGS | Freeze Protection

Home > Settings > System Options > Pump Freeze Protection Setup: To enable Pump Freeze Protection, a system ambient air temperature sensor must be installed. This feature helps protect pool plumbing from freezing when the outdoor air temperature drops below 36°F.

When Freeze Protection is ON for the pool: In the event of freezing conditions, the pool filtration pump will automatically circulate water to help prevent the system pipes from freezing. Freeze Protection applies to only one body of water at a time. If you have a Pool/Spa Combo, freeze protection will automatically switch the intake and return valves between Pool & Spa every 15 minutes to protect the plumbing.

Heater Off: The heater will not activate during a freeze protection event unless the heater is manually turned ON.



How to Configure Pump Freeze Protection: From the Settings page, tap Pump Freeze Protection to access configuration options:

Enable Freeze Protection: Select the main pool filtration pump (tap the toggle switch to enable the pump), tap Change to display the “Set Pump Freeze Protection” option. The Freeze Protection (snow icon) is displayed on the Home screen (between Water Temp and Heat Mode).

Set the Temperature: Tap Change to display the “Set Freeze Mode” option. Set the freeze activation temperature (typically around 36°F) to trigger pump operation when air temperature drops near freezing. **Pump Freeze Protection Override:** Temporarily disable freeze protection from 1 to 4 hours in 30 minute increments.

Pump Freeze Protection Override: Temporarily disable freeze protection from 1 to 4 hours in 30 minute increments.

Pump Freeze Protection: Tap Change. Enter a freeze protection activation temperature as well as a freeze override duration time when using the Spa. The default setting is 36°F, which can be adjusted from 34°F to 40°F.

Set Pump Run Time: Enter the number of hours the pump should run during a freeze event to circulate water effectively.

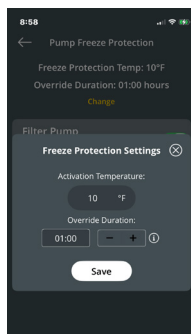
Save Settings: Tap Save to apply your freeze protection configuration. Tap the Back arrow, then tap Yes to confirm and save the changes.

SETTINGS | SYSTEM OPTIONS (Continued)

Pump Freeze Protection Override: Temporarily disable freeze protection from 1 to 4 hours in 30 minute increments.

Set the Override Duration: Tap **Pump Freeze Protection** on the settings page. The selected pumps are displayed. Tap **Change**. Tap +/- to set the duration time from 1-4 hours. Tap **save** to exit and save the settings.

- **Set the temperature:** Select the main pool filtration pump (tap the toggle switch to enable the pump), tap **Change** to display the "Set Pump Freeze Protection" option.



Pump Freeze Protection Conditions

The Pump Freeze Protection feature is automatically enabled (by default) for the Filter Pump. The default freeze protection speed for a Variable Speed pump is 1200 RPM. Freeze protection can be enabled for other pumps as desired.

Pump Freeze Protection Override: You can enable/disable freeze protection mode for one or more pumps.

SETTINGS | System Options | Factory Reset

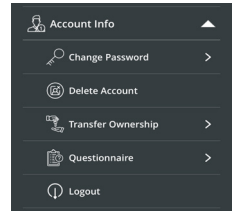
Home > Settings > Systems Options > Factory Reset.

- Tap **Yes** to reset the current Optimizer system settings to the factory default settings. Tap **No** to keep the current Optimizer system settings and exit.



SETTINGS | ACCOUNT INFO

Change Password, Delete Account, Transfer Ownership
(→P.34,25), Questionnaire (→P.34), Logout (→P.34)

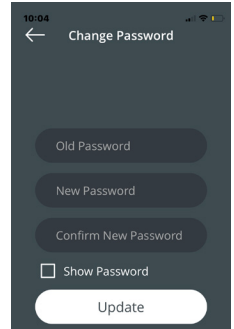


SETTINGS | Change Password

Home > Settings > Account Info > Change Password.

To change the login system password, enter the old password then enter the new password twice. *Note: To view the password, tap Show Password check box.*

Tap Update to save the new password. Tap the return arrow to go to the Setting page.



SETTINGS | Delete Account

Home > Settings > Account Info > Delete Account.

To delete an existing account, follow the screen prompts. A deleted account cannot be retrieved. A new account can be registered using the same information, to replace the deleted account. (→P.38).

SETTINGS | Transfer Ownership (→P.25).

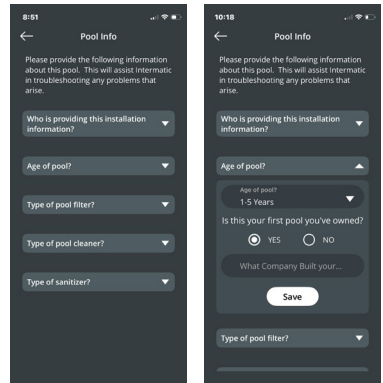
Home > Settings > Account Info > Transfer Ownership
Enter the Email address of the new owner.

SETTINGS | Questionnaire

Home > Settings > Account Info > Questionnaire.

Enter all the information about your pool. A green check indicates the information is entered and saved.

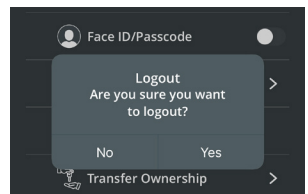
Note: Questionnaire information can also be entered in the System Setup Wizard > Step 3. (→P.43).



SETTINGS: Logout

Home > Settings > Account Info > Logout.

To Logout from the Optimizer system application, tap Logout, then tap Yes to logout of the Optimizer application. The Optimizer sign-in page is displayed. Tap no to exit this page. To view your current SSID network router name, see (→P.36) Board info.



SETTINGS | SUPPORT

SETTINGS | Contact Intermatic

Home > Settings > Support > Contact Intermatic.

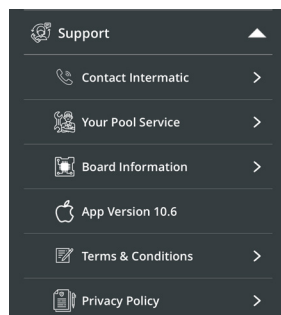
Intermatic customer Email support. (→P.6).

Displays the Intermatic support contact number:

Call 815.675.7000

Monday - Friday 8:00 AM to 4:30 PM, CST.

www.intermatic.com

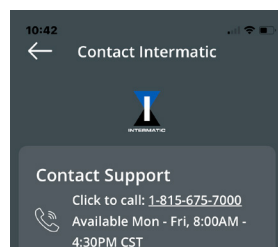


SETTINGS | Your Pool Service

Home > Settings > Your Pool Service.

Add a pool technician details. Displays a pool professional contact information. Enter name, phone number, Email and function. Tap Add to save the information.

Contact Intermatic, Your Pool Service, Board Information (→P.36), App Version x.xx (→P.36), Terms and Conditions (→P.36), Privacy Policy (→P.36)



SETTINGS | SUPPORT (Continued)

SETTINGS | Board Information

Home > Settings > Support > Board Information

View the Optimizer system circuit board features:

- **Pool Name/Pool Owner:** As defined in Profile when registering your pool.
(→P.24)
- **Date of Installation:** The date the pool was registered with the Intermatic Optimizer system app
- **Manufacturer:** Intermatic Incorporated
- **Model:** Intermatic Optimizer
- **Serial Number:** The serial number of the registered systems
- **WiFi SSID:** Home WiFi Router (at the pool location)
- **Local IP:** 192.168.137.XXX
- **MAC Address:** 98:F4:AB:03:4D:XX
- **Signal Strength:** -41 (Excellent)
- **Channel:** 3 (1-11). Using 2.4 GHz
- **Firmware Version:** x.x
- **Board Hardware Version:** 2.2
- **Board Run Hours:** Hours/Minutes
- **Board Temperature:** 89°F
- **Pool Location:** Physical address of pool

SETTINGS | App Version x.xx

Home > Settings > Support > App Version x.xx

Displays the current version of the Intermatic Optimizer system app.

SETTINGS | Terms & Conditions (Terms of Service)

Home > Settings > Support > Terms & Conditions

The **Terms & Conditions** page includes the Terms of Service information for Intermatic Optimizer systems. Please read thoroughly.

SETTINGS | Privacy Policy

Home > Settings > Support > Privacy Policy

The **Privacy Policy** page includes information about your secure personal information. Please read thoroughly.

HOME | SETTINGS | System Setup Wizard

The System Setup Wizard guides you through easy steps to setup your pool and spa equipment. *Note: Tap Skip to exit the System Setup Wizard.*

To access the System Setup Wizard from the Home page, tap > Settings > System Setup Wizard.

Tap the Step (1-12) equipment name to setup the equipment.

Step 1: Add Pool (→ P.38)

Step 2: Connect System Home WiFi (→ P.40)

Step 3: Questionnaire (→ P.43)

Step 4: Wallet (→ P.27)

Pool Configuration:

Step 5: Pump Setup (→ P.44)

Step 6: Valve Actuator Setup (→ P.46)

Step 7: Heater Setup (→ P.47)

Step 8: Sanitizers/Chemistry Setup (→ P.48)

Step 9: Light Setup (→ P.49)

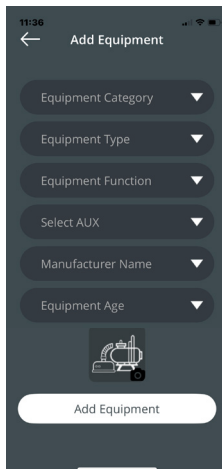
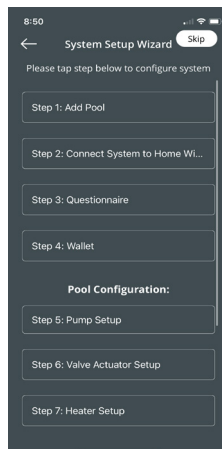
Step 10: Water Feature (→ P.50)

Step 11: Generic On/Off Device Setup (→ P.51)

Step 12: Cleaner Setup (→ P.51)

Note: After the initial system setup, you can add, update and backup the system configuration from the System Setup Wizard or from Home > Settings > Equipment Configuration > System Configuration (→ P.27).

- **Update Equipment:** Select the equipment category name under Pool Configuration (Steps 5-12). Tap the equipment name to update. Enter the equipment function, AUX circuit (AUX 1-9). Complete the other required information. Tap **Update Equipment** to save the information.
- **Add Equipment:** Select the equipment category name under Pool Configuration (Steps 5-12). Select the equipment name, then tap the + symbol. Enter the new equipment information. Tap **Add Equipment** to save the information
- **Manual Backup:** After the Optimizer system equipment has been setup, go to (→ P.29) to see how to save a manual backup of the current system configuration.



Add Pool | Wizard Step 1

WiFi Configuration: Home > Wizard > Step 1

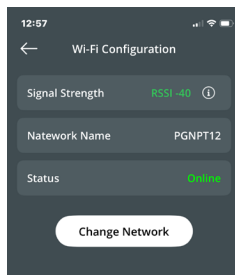
Signal Strength: Displays the current network signal strength. (→P.6).

Network Name: Your home router SSID.

Status: Online: Optimizer connected to the cloud.

Offline: Optimizer not connected to the cloud.

Change Network: Follow the screen prompts. The home network router WiFi SSID. See Board Information (→P.36).



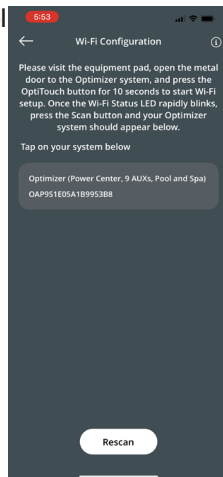
Add a new Optimizer system pool: To add a new Optimizer system to an existing registered Optimizer system, tap (+) to add a new pool system.

- Please follow the displayed setup instructions. Tap the information icon for details.
- See (→P.37) for registration and Optimizer system setup steps to complete the setup.

From the Home page: Settings > System Setup Wizard > Step 1: Add Pool

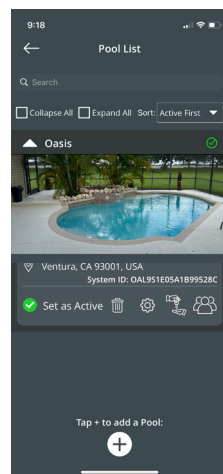
First time Optimizer system pool setup: If this is a first time pool setup, tap (+) to add a new Optimizer system pool.

- Please follow the displayed setup instructions. Tap the information icon for details.
- The Optimizer system ID is displayed. Tap Rescan to search for your Optimizer system. Please follow the displayed setup instructions. Tap the information icon for details.
- Continue to (→P.37) for registration and Optimizer system setup steps to complete the setup.
- **Remove the ownership of your pool:** This will reset the Optimizer system to default. Select your pool and tap the trash can icon, tap Yes then Continue. *Note: Also see Transfer of Ownership (→P.25).*



Change the pool image on Home page

- From the Home page, tap the pool image to access the Pool List page. Select your pool image and swipe left. Next swipe to select the image you prefer and tap **Set as Active**. The new pool image is displayed on the Home screen. (→P.5).



Text Naming Convention: Only the - (dash) special character symbol can be used when naming a type of function or device in the configuration text field. All other special characters (!@#%&*()<>?";: cannot be used.

Add Pool | Wizard Step 1 (Pool List)

From the Home page: Settings > System Setup Wizard > Step 1: Add Pool

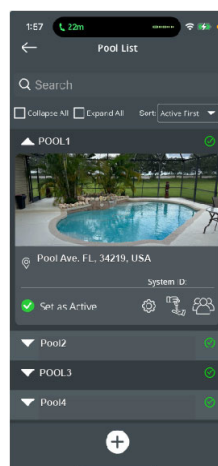
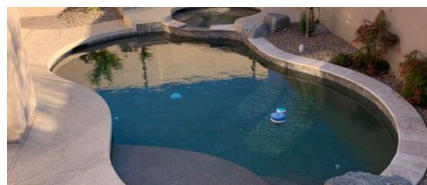
To add a new pool, tap (+) (bottom of screen):

- Use your smart phone to scan the yellow decal on the Optimizer system carton, or type the QR code to register the Optimizer system.
- Enter the following information: Select the pool system (Pool only, Spa Only or Pool/Spa combination (shared equipment)). Pool Name, Address, City, State, Zip Code, Country and Time Zone.
- **Add two images:** Tap (+) to add two pictures of the pool.
- Tap Add to save and exit.

Note: Also see Transfer of Ownership (→P.25) and Sharing Residential Pools (→P.26).

Change the pool image on Home page

- From the Home page, tap the pool image to access the Pool List page. Select your pool image and swipe left. Next swipe to select the image you prefer and tap **Set as Active** and **Yes**. The new pool image is displayed on the Home screen. (→P.5).
- **Log into the account you created above:** Tap + at the bottom of the screen to add a pool.



Connect System to Home WiFi | Wizard Step 2

From the Home page: Settings > System Setup Wizard > Step 2: Connect System to Home WiFi.

The following describes how to register your pool using the Optimizer system app.

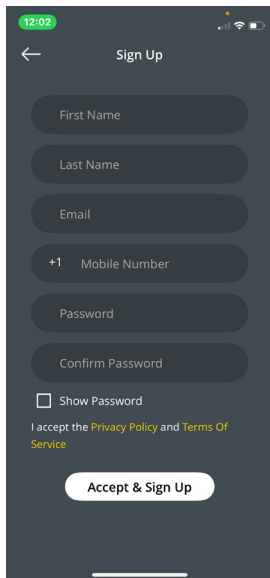
- 1  **SCAN THIS QR CODE** to download the Intermatic Optimizer app from the App Store and Google Play:

2 Enable Bluetooth® on your mobile device:

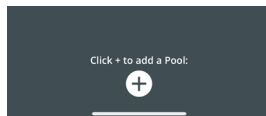
- Keep your phone within Bluetooth range (5 ft. to 15 ft.) of the Optimizer system enclosure during the Bluetooth/WiFi setup.
- Enable Bluetooth on your mobile device:
For iPhone: Go to Settings > Bluetooth > Tap the Bluetooth button (Green)
For Android: Go to Settings > Connected Devices > Connection Preferences > Bluetooth
> Tap Use Bluetooth to enable Bluetooth.
Permissions Locations: Tap Settings > Apps > Optimizer > Permissions > Location > Tap "Allow only while using the app".
Note: Do not connect directly to the Optimizer system from your mobile device settings. If you have connected to the Optimizer system in your Bluetooth settings, don't use that device in your phone settings. Return to the Optimizer system app to complete the setup.

Register Your Pool Account

- 1 Open the Optimizer system app on your mobile device. Tap the Optimizer system app icon.
- 2 Tap Don't have an account? Sign up.
- 3 Enter the required information on the Sign up page.
- 4 Tap Accept & Sign Up.
- 5 Go to your email account that was entered and click Accept to activate your Optimizer account.



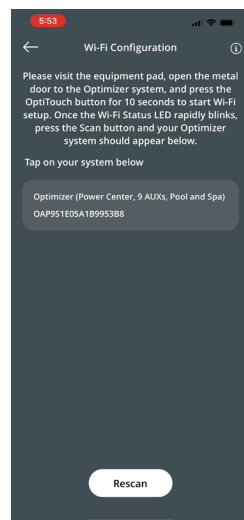
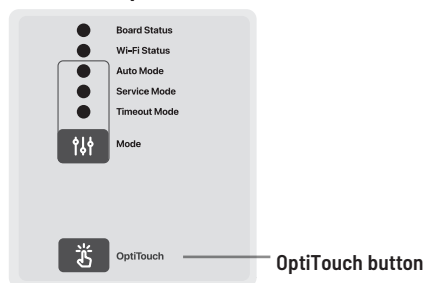
- 6 Log into the account you created above: Tap + at the bottom of the screen to add a pool.



Continue on the next page.

Connect System to Home WiFi | Wizard Step 2

Press the OptiTouch button to start the Bluetooth discovery.

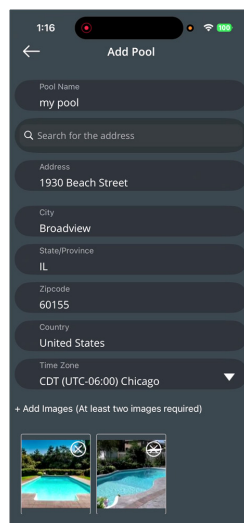


- 1 Open the front door of the Optimizer system load center or power center.
- 2 Press and hold the Optimizer control panel OptiTouch button for five (5) seconds until you hear three (3) short beeps, then release after you hear the beeps. This starts the Optimizer system into Bluetooth discovery mode so the app can connect to the Optimizer system and begin the WiFi setup process.
- 3 The Blue WiFi Status LED will blink rapidly.
- 4 Tap the Rescan button. Your Optimizer system name is displayed.
- 5 Tap on your Optimizer system name to connect to the Optimizer system app.

Add your pool information.

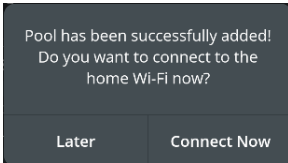
- 6 Add Pool: Enter all the required information. Tap + "Add image of your pool". Add two images then tap Add to save.
- 7 After adding your pool, you can "connect to your home network WiFi router or exit to connect later". See Step 8 on the next page.

Continue on the next page.

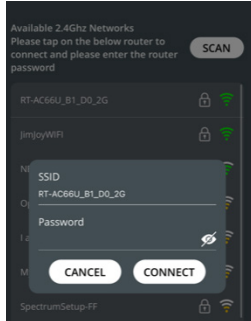
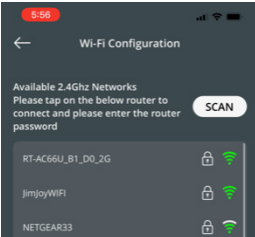


Connect System to Home WiFi | Wizard Step 2

8



Connect Now: Tap on your home WiFi SSID 2.4 Ghz router name. Enter the network password and tap Connect.



- **Later:** Return to the Home page. The Optimizer system is offline. You can restart the WiFi setup process later from the System Setup Wizard (Step 2: Connect System to Home WiFi Configuration).

Setup Now: WiFi has been configured. Tap Setup Now and continue with the System Setup Wizard to setup your pool equipment. *Note: Start with Step 5 Pump Setup.*

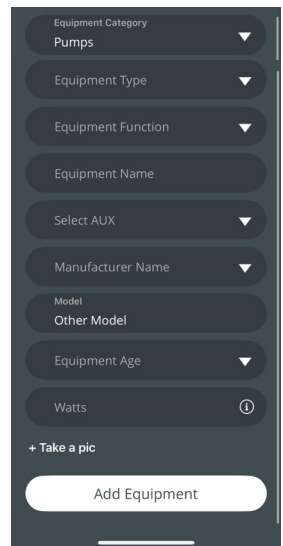
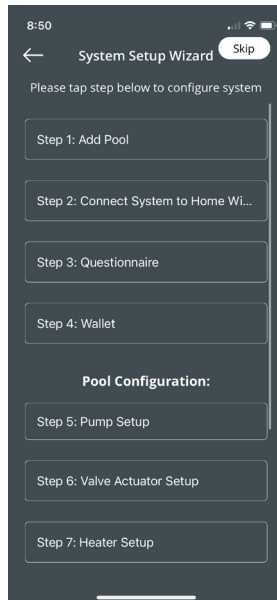
System Setup Wizard:

Continue setting up your pool equipment.

There are 12 Setup steps (1-12). Enter your pool equipment information for each of the 12 categories after first setting up the pool filter pump.

Later: Return to the Home page. WiFi has been setup.

Tap OK to continue and setup your pool equipment from the System Setup Wizard.



Questionnaire | Wizard Step 3

From the Home page: Settings > System Setup Wizard > Step 3: Questionnaire

- Enter information about your pool (Pool owner, address), age and type of pool, and pool winterize information. Tap **Save** to continue.
- Enter the following information about the pool system, and take pictures to save in the app.
- Pool Cover (Solar, Auto, or Liquid). Take a picture of the pool cover.
- Pool Service Plan, Pool Filter (Sand, Cartridge, DE Cartridge, DE), Pool Cleaner (Suction, Robotic, In-Floor) and Sanitizer Type (Chlorine Tabs, Chlorine Liquid, SCG, Ozone).
- Type of Main Drain (Single or Dual).

12:04

← Pool Info

Please provide the following information about this pool. This will assist Intermatic in troubleshooting any problems that arise.

Who is providing this installation information? ▾

Age of pool? ▾

Type of pool filter? ▾

Type of pool cleaner? ▾

Type of sanitizer? ▾

Wallet | Wizard Step 4

From the Home page: Settings > System Setup Wizard > Step 4: Wallet

The Wallet is a convenient place to store your pool equipment receipts, pictures of your pool, equipment and chemistry test reports.

3:43

← Wallet

The Wallet is a convenient place to store your pool equipment receipts, pictures of your pool and equipment, as well as water chemistry test reports.

1. Receipts:

+ Add Images

2. Pool and Equipment Pad:

+ Add Images

3. Water Chemistry Test Recei...

+ Add Images

2. Pool and Equipment P...

+ Add Images

3. Water Chemistry Test...

Pump Setup | Wizard Step 5

From the Home page: Settings > System Setup Wizard > Step 5: Pump Setup. Tap + to add a pump.

Pool Configuration

- **Equipment Category:** Pump is auto selected.
- **Equipment Type:** Select Single Speed or Variable Speed (VSP).
A Variable Speed Pump (VSP) communicates with the Optimizer system using a specific RS485 address. The VSP is wired to the RS485 COM port on the Optimizer system circuit board which uses the same address as the other VSP. If multiple VSP's are present, assign each pump a different address. *Note: Please select the Manufacturer's Name and Model to ensure the correct variable speed communication code is used to communicate with each VS pump communicate with each VSP.*
- **Equipment Function:** Filter Pump, Cleaner Booster Pump, Water Feature Pump, Dedicated Solar Pump, Spa Jet Pump.
Single Speed (Select 1-9 AUX): Filter Pump, Cleaner Booster Pump, Water Feature Pump, Dedicated Solar Pump.
Note: The Optimizer system can be configured for a total of seven (7) VSPs.

Manufacturer Name: Enter the Manufacturer Name and Model to ensure the correct VSP communication code is used to communicate with the Optimizer system.

- **Pump Address for VSP:** Choose an address for the pump. This address must be the same address selected in the pump's menu. The Optimizer system app pump address and the address on the pump menu must be the same.

Single speed pump (On/Off): Select AUX 1-9.

RS485 (VSP): Select the RS485 address from the VSP.

- **Model:** Enter the manufactures model.
- **Equipment Age:** Select the equipment age: Brand New, 1-4 years, 5+ years.
- **VSP Min, Max Speed:** Enter the VSP minimum (400 RPM) and maximum speed (3450 RPM). The VSP speed (RPM) can be adjusted on the Home page (Pump). (→P.12).
- **Take a picture:** Tap + Take a pic to take a picture of the pump. Tap Add Equipment to save the information.

Note: For a list of installed pool/spa equipment see Configuration Info (→P.28). From the Home page > Settings > Equipment Configuration > Configuration Info.

For pump Freeze Protection, see (→P.32).

Pump Setup (Continued)

Valve Actuator Setup | Wizard Step 6

From the Home page: Settings > System Setup Wizard > Step 6: Valve Actuator Setup.

Use the Valve Actuator to setup a water feature, solar heater using the pool filter pump or a pressure side cleaner.

- To add an actuator, tap + at the bottom of the screen.
- **Equipment Category:** Auto assigned to Valve Actuator
- **Equipment Type:** Auto assigned to Valve Actuator
- **Equipment Function:** Water Feature, Solar Heater Using Filter Pump or Pressure Side Cleaner.

Main Pool Filter Pump: VL1 Pre-assigned to the Intake valve.

VL2 (Pre-assigned to the Return valve).

Water Feature (VL3 or VL4): See (→P.37, 50) for setup information.

Solar Heat (VL3 or VL4): Assigned to Solar Heat (*)

Pressure Side Cleaner (VL3, VL4): VL3 - Assigned to Pressure Side Cleaner

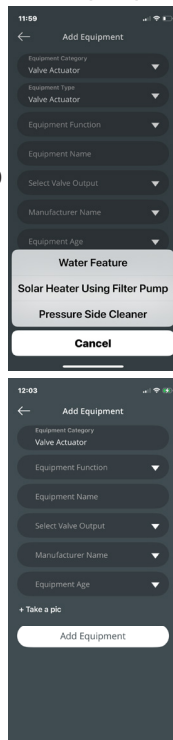
- **Manufacturer Name:** Enter the manufacturer name of the valve actuator
 - **Equipment Age:** Select Brand New, 1-4 years, 5+ years
 - **Take a picture:** Tap "+ Take a pic" to take a picture of the valve actuator. Tap Add Equipment to save the information.
- (*) **Solar Only:** Solar heating will turn on whenever the pool/spa valves are in the pool, or spa or spillway (spillover) position.

Solar Heating: Solar heating is controlled by a 3-way solar valve which will operate when the filter pump is running, the heat mode has been set to Solar, solar heat is available (solar temp sensor is 6°F higher than water temperature) and the water is less than the desired set temperature setting. A solar water temperature sensor must be installed near the collector array and is used to sense whether sufficient solar heat is available.

Solar Booster Pump: If the solar is operated by a booster pump, then one of the AUX relays must be set up for solar. The booster pump will turn on when the filter pump is running and solar heat is available and the water is less than the desired set temperature setting. To heat with solar using the pool filter pump, schedule the pump to run during the hotter part of the day, from 11:00 am to 4:00 pm when solar heat is available. The solar roof panels must be at least 6°F warmer for solar heat to turn on.

Enter the Valve Actuator information. Depending on the Optimizer model, assign the actuator to a Valve circuit (VL3 and VL4).

Note: VL1 is assigned to pool INTAKE, VL2 is assigned to pool RETURN for the pool filter pump. Delete Equipment from the app: To delete equipment from the Wizard, swipe left, select the equipment to delete then tap the trash can icon.



Heater Setup | Wizard Step 7

To add a heat source from the Home page:

Tap Settings > System Setup Wizard > Step 7: Heater Setup.

Use the Heater Setup to setup a Gas heater, Heat Pump, Heat & Cool Pump.

Tap Settings > Equipment Configuration > System Configuration > Tap + to add equipment > Tap Equipment Category and select a heat source.

Heat Mode: From the Pool and Spa Heat Mode page (→P.12). You can turn the heat source Off, select the heat source, set the pump speed and the Pool or Spa Set Point water temperature. To access the Heat Mode page from the Home page, tap Heat Mode.

The Heat Mode is set either manually or from a new schedule:
Manually (→P.12):

From the Home page, tap Heat Mode for the pool and spa. Select select a heat source on the Heat Mode page (Off is default). Set the pump speed and the "Pool Set Point" water temperature. Make sure the Pool or Spa "Set Temperature" is higher than the water temperature, so that the heater can activate to reach the desired "Set Temperature".

Schedules (→P.20):

When you create a new schedule for the pool filter pump, you can assign the pump RPM and select a heat source (Heat Mode).

Add a Heat Source: *Note: Select one heater source for a pool and spa combo system.*

- **Equipment Category:** Heaters
- **Equipment Type:** Gas heater, Heat Pump, Heat & Cool Pump.
- **Equipment Name:** Enter the heat source name
- **Select RL:** Select Relay 1-4
- **Manufacturer Name:** Enter the manufacturer name
- **Model:** Enter the heater model
- **Equipment Age:** Select Brand New, 1-4 years, 5+ years
- **Rated BTUs:** Enter the heater BTUs rating
- **Efficiency in %:** Enter the heater efficiency percent
- **Take a picture:** Tap "+ Take a pic" to take a picture of the heater. Tap Add Equipment to save the information.

Heat Source Description

- **Heat Pump:** Designed to heat or cool pool water at the desired temperature.
Note: Heat pump cool or heat mode must be set on the unit.
- **Gas:** A swimming pool gas heater.

Sanitizers & Chemistry Setup | Wizard Step 8

From the Home page: Settings > System Setup Wizard > Step 8: Sanitizers & Chemistry Setup.

- For Sanitizer & Chemistry On/Off control, see (→P.28).
- **Equipment Category:** Chemistry Monitor, Chemistry Controller, Salt Chlorinator, Ozone Generator, UV System.
- **Equipment Type:** Chemistry Monitor, Chemistry Controller, Salt Chlorinator, Ozone Generator, UV System.

Note: The listed sanitizers and chemistry equipment apply to stand alone equipment. Please refer to the equipment installation manual for details about how to connect the equipment to the Optimizer system.

For installation and Associated AUX wiring of the Intermatic I-Pure Salt Chlorinator, please refer to the Intermatic I-Pure Salt Chlorinator Installation and User's Guide, P/N 158-02676, or visit www.intermatic.com

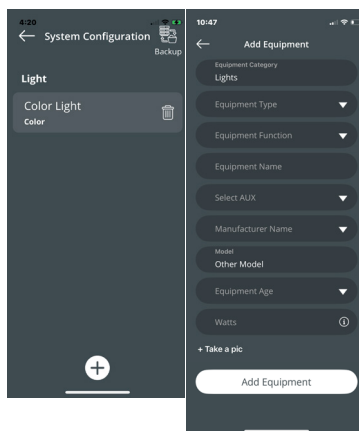
The screenshot shows the 'Add Equipment' screen. At the top, the status bar shows 12:02 and signal strength. The screen has a dark background with white text. The title is 'Add Equipment'. Below it, there's a dropdown for 'Equipment Category' with 'Sanitizers & Chemistry' selected. Below that is a dropdown for 'Equipment Type'. Then there are text input fields for 'Equipment Name', 'Select Associated AUX', 'Manufacturer Name', and 'Equipment Age'. Each of these has a dropdown arrow on the right. Below the 'Equipment Age' field is a button labeled '+ Take a pic'. At the very bottom is a large white button labeled 'Add Equipment'.

- **Equipment Function:** Select Pool/Spa, Pool or Spa
 - **Equipment Name:** Enter the name of the sanitizer or Chemistry equipment
 - **Select Associated AUX:** Select AUX 1-9. (→P.48).
 - **Select the Associated AUX (1-9):** Select the Associated AUX (1-9) that is associated with the pool filter pump. Wire the chlorinator power wires to the selected associated auxiliary relay. This ensures the Salt Chlorinator associated AUX is controlled by the ON/OFF state of the filter pump so that the chlorinator is not ON when the filter pump is OFF. *Note: An Associated AUX circuit controls the on/off state of a salt chlorinator, and a chemical controller. These devices must only be on when the pool filter pump on. An Associated AUX is tied to whatever AUX circuit the sanitizer is wired to the pool filter pump state. If pool filter pump is off, the sanitizer will not receive power. The sanitizer AC power wires are wired to the selected Associated AUX relay.*
 - **Manufacturer Name:** Enter the name of the equipment
 - **Equipment Age:** Select Brand New, 1-4 years, 5+ years
 - **Take a picture:** Tap "+ Take a pic" to take a picture of the Chemistry Monitor, Chemistry Controller, Salt Chlorinator, Ozone Generator, UV System. Tap Add Equipment to save the information.
- Note: For a list of installed pool/spa equipment see Configuration Info (→P.28). From the Home page > Settings > Equipment Configuration > Configuration Info.*
- **Salt Chlorinator in Spa Mode:** When the Optimizer system detects that it is in Spa mode, the salt chlorinator power is cut to 5% to control chlorine production overdose to the Spa. So if the Spa runs for 60 minutes, power to the salt chlorinator is on for 3 minutes.

Light Setup | Wizard Step 9

From the Home page: Settings > System Setup Wizard > Lights Setup. *Note: Lights can be assigned to a Water Feature, see Wizard Setup Water Feature (→ P.50).*

- To add a pool, spa or landscape light, tap + at the bottom of the screen.
- **Equipment Category:** Lights
- **Equipment Type:** White or Color
- **Equipment Function:** Pool, Spa, Landscape, Water Feature
- **Equipment Name:** Enter the name of the light
- **Select AUX:** Select AUX 1-9
- **Manufacturer Name:** Enter the manufacturer's name of the light
- **Model:** Enter the model of the light
- **Equipment Age:** Select Brand New, 1-4 years, 5+ years
- **Take a picture:** Tap "+ Take a pic" to take a picture of the light(s). Tap Add Equipment to save the information.

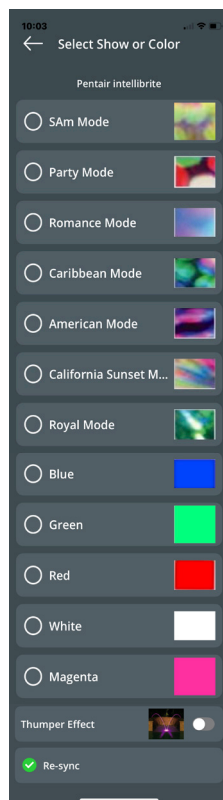


Control Lights from the Equipment Control page (→ P.9).

From the Home page: Tap Equipment Control > Lights.

Tap Lights to view or change the pool light show or select a fixed color. Also, turn on/off Hold Color, Random Mode, Thumper Effect and Reset light features.

- **Thumper Effect (using a pool laminar):** This feature creates a wrinkle effect and a spot of light in the laminar arc. Turn on/off to enable the Thumper Effect.
- **Re-sync:** Resets the laminar light to Random color changing mode and turns on Thumper mode.



Water Feature Setup | Wizard Step 10

From the Home page: Settings > System Setup Wizard > Step 10: Water Feature Setup.

To configure a water feature (with lights optional): There are two methods to configure a water feature (with lights optional) as shown below.

A Shared with Filter Pump via the Actuator:

System Setup Wizard: Add a Valve Actuator Setup Pump (Step 6 Valve Actuator Setup).

Equipment Category: Valve Actuator

Equipment Function: Water Feature

Equipment Type: Shared With Filter Pump Via Actuator

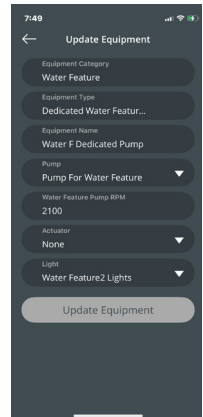
Equipment Name: Water Feature Filter Pump, Light

Select Valve Output: Water Feature or any available valve.

Manufacturer Name: Intermatic

Equipment Function: Water Feature with Filter Pump

Equipment Age: Water Feature with Filter Pump



B Dedicated Water Feature Pump:

System Setup Wizard: Add a pump (Step 5 Pump Setup):

Tap + to add a pump.

Equipment Category: Pumps

Equipment Type: Variable Speed

Equipment Function: Water Filter Pump

Equipment Name: Water Feature Pump Light

Manufacturer Name: Intermatic

Pump Address: Select a pump address

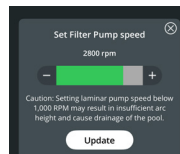
Model: Intermatic

Equipment Age: Brand New

Min. Speed: 600 RPM

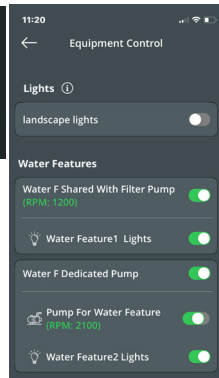
Max Speed: 1200 RPM

- **Add Lights (Optional) (→P.49):** Before assigning the Valve Actuator, create a light type "Water Feature". Assign a light (laminar or bubbler's light). Settings > Equipment Configuration > System Configuration: Tap + to add equipment. Select Lights.



Turn on the Water Feature + Lights

- From the Home page, Tap Equipment Control.
- Features: Tap the button to turn on the water feature.
- Tap Water Feature name to display the pump speed. Tap +/- to adjust the pump speed (RPM).



Generic On/Off Device Setup | Wizard Step 11

From the Home page: Settings > System Setup Wizard > Step 11: Generic On/Off Device Setup.

- **Equipment Category:** Generic (On/Off Device) (→P.50).
- **Equipment Category:** Select Generic (On/Off Device)
- **Equipment Name:** Enter the name of equipment
- **Select AUX:** Select AUX 1-9
- **Manufacturer Name:** Enter the name of the equipment
- **Equipment Age:** Select Brand New, 1-4 years, 5+ years
- **Take a picture:** Tap "+ Take a pic" to take a picture of the generic device. Tap Add Equipment to save the information.

Cleaner Setup | Wizard Step 12

From the Home page: Settings > System Setup Wizard > Step 12: Cleaner Setup.

- **Equipment Category:** Cleaner
- **Equipment Type:** Select Pressure (FP & Booster Pump), or Suction (Filter Pump only)
- **Equipment Name:** Enter the name of equipment
- **Manufacturer Name:** Enter the name of the equipment
- **Equipment Age:** Select Brand New, 1-4 years, 5+ years
- **Actuator:** None

Troubleshooting

- The Optimizer system app is not connecting or loses the Internet connection (Offline is displayed on the Home page) to the system. (→P.6)
- Check the Optimizer system WiFi and your home WiFi router connection. (→P.6).
- Update your WiFi router firmware. (→P.54).
- WiFi Setup: Use Bluetooth and WiFi on your mobile device to setup a new Optimizer system connection. (→P.41).
- Your Home WiFi router might be out of range with the Optimizer system Load Center or Power Center. You might consider installing a range extender. (→P.56).
- Check that the Online (Green check) is displayed on the Optimizer system app Home page. *Note: If the system loses the Internet connection, the Optimizer system app will continue to run assigned schedules (pumps, lights, Heater).* (→P.6).

Frequently Asked Questions

- What does the app WiFi signal strength icon display? (→P.6).
- Changing the network name and/or the WiFi profile. (→P.34).
- I don't have a WiFi connection from my home router: Your home router must support 2.4 GHz. Also check your home router SSID and password. (→P.6, 34).
- The filter pump (other equipment or app) is disconnect from WiFi? Check your home router WiFi connection. (→P.6).
- Reset my login password. (→P.34).
- Where do I change my login and registration profile. (→P.34).
- How do change the pump name: Settings > Update VSP Pump Address. (→P.44).
- Changing temperature (Celsius to Fahrenheit) units. (→P.31).
- How do I enable Freeze Protection for my pool pump. (→P.32).
- Setting up programmed pump speeds (manual/timer/schedules). (→P.20).
- Adding equipment. (→P.27).
- Notifications: A small Red Dot displayed on the notification indicates there system status notifications or system alerts that possibly need attention. (→P.30).
- Enable/disable the pool pump. (→P.19).
- View/Enable Notifications and Alerts (→P.30).
- Home screen. (→P.5).

Frequently Asked Questions (Continued)

- How do I setup my solar Optimizer system?

Solar can be configured under Pumps (solar pump) or Valve Actuator (solar valve), (→P.14).

Solar Pool Heating System Control: Solar heating will activate whenever the pool/spa valves are set to Pool, Spa, or Spillover mode. A solar temperature sensor must be installed near the solar collector array to detect whether sufficient solar energy is available.

Solar Booster Pump: If the system uses a solar booster pump, it will turn on when the filter pump is running, Solar heat mode has been selected, Solar heat is available, and the pool/spa water temperature is below the desired set point. An available AUX relay must be assigned to the booster pump and configured for solar operation.

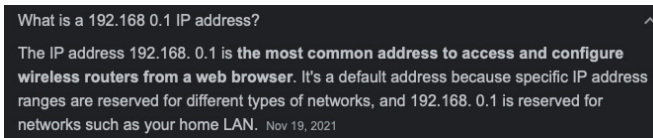
Is Your WiFi Router Firmware Updated?

The firmware that runs your WiFi router is an often overlooked variable that can cause problems with devices that connect to it. New, high-performance WiFi routers typically use a dedicated iPhone and/or Android app which can be used to manage settings and update the WiFi router firmware.

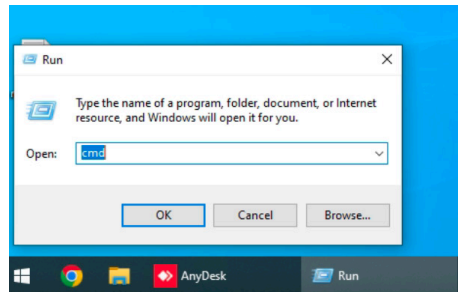
Older WiFi routers (manual firmware update)

Lower performance WiFi routers, usually provided by the Internet Service Provider, require the use of a web browser to login to the WiFi router in order to update it. You can login to these WiFi routers using the WiFi router's default gateway IP address and typing this address into the browser's address field. The most typical addresses used are 192.168.0.1 or 192.168.1.1 – but it could be set to anything.

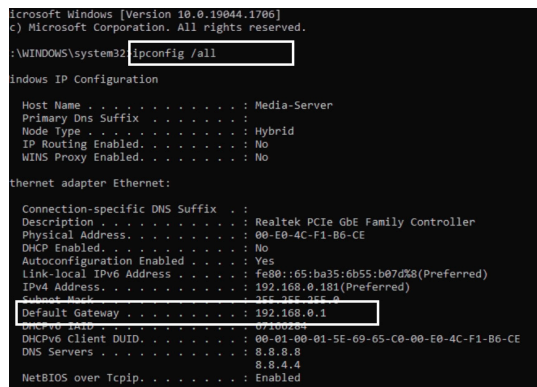
Windows OS: To find out what your WiFi router's Default Gateway address is, you can open an MS DOS dialog box by RIGHT clicking on the Windows logo (bottom left of screen) and choose RUN. Then type "cmd" and press ENTER:



The MS DOS dialog box (shown on right) with the C: prompt, type: "ipconfig /all" displays information about the IP address of your computer. You are looking for the line called Default Gateway:

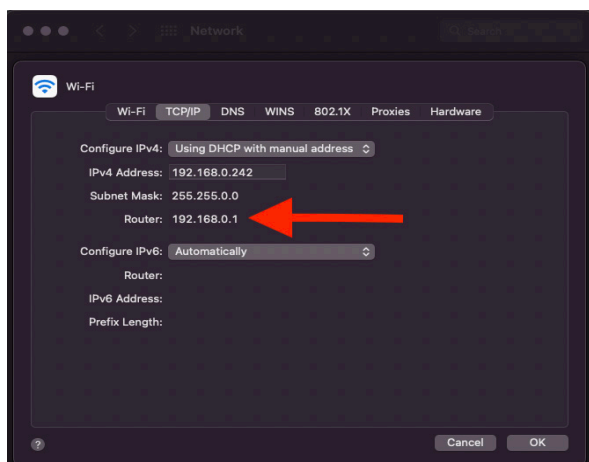


Then you should be able to open a browser and type this address: 192.168.0.1 into the address fields and press ENTER. The WiFi configuration pages should appear.



Apple iOS

- When using a Mac, click on the Apple logo at the top left of your screen. Choose System Preferences in the drop down menu and then choose the Network icon.
- Select the network interface that your computer is using to connect to the Internet (usually WiFi or LAN) and then click the Advanced button.
- Next, select TCP/IP and write down the "Router:" IP address. This is the router's default gateway address that you can enter into the address line in any browser to login to your WiFi router's settings.



Connecting the Optimizer system to your WiFi

By default, the Optimizer system utilizes the WiFi hotspot method for connecting to the Internet. If your wireless signal from the router is not strong enough to allow the Intermatic Optimizer system to connect, the signal strength may be improved by:

1. Moving your WiFi router to a different area in your home that minimizes the distance and obstructions between it and the system.
2. Reposition the system's WiFi antenna so that the distance and obstructions between it and the wireless router are minimized.
3. Install a wireless range extender to extend the wireless signal from the home wireless router.

Note: Wireless range extenders can be used to improve an existing wireless router's coverage area. Wireless range extenders are readily available online and from computer stores. It is recommended to use a 2.4 GHz wireless range extender.

Signal Strength Test

When using a Wireless Signal Monitoring app the lower the dBm reading the better. For example, a signal strength of -40 dBm is excellent and a signal strength of -80 dBm is considered bad. A signal strength between -30 dBm and -60 dBm is considered very good. When the signal strength at the equipment pad is below -75 dBm you might need a wireless range extender.

Wireless Range Extender

A Wireless Range Extender is used to extend a wireless router's coverage area. A range extender needs to be installed within the existing router's coverage area so that it can receive a wireless signal from the router. It then rebroadcasts that signal to the areas around it.

Range extenders have the same issues as wireless routers, so avoid obstacles like concrete, stucco or brick walls, metal objects and microwaves.

It is recommended to use a 2.4 GHz wireless range extender.

Note: If you install a range extender to improve the WiFi connection between Intermatic Optimizer system and the home router, be sure to connect Intermatic Optimizer system to the extender. The home network router WiFi SSID is shown on Board Information (→P.36). A wireless extender's router name (SSID) can end with the letters "EXT", which is the extender name.

WiFi Status (Blue LED) Pattern

WiFi Status Description	WiFi Status (Blue LED) Pattern
Optimizer system board is not connected to the WiFi router.	WiFi is disconnected - LED blinking with 1 second delay.
Optimizer system board is connected to the WiFi router, but not able to access the Internet.	Internet is not available or Cloud Server not able to connect (LED blinking with OFF-3 times fast blink - OFF).
Optimizer system board is connected to the WiFi router, Internet access, but not to the Cloud Server.	
When ALL conditions are good...	Both WiFi and Cloud Server are connected successfully (LED blinking with 2 second delay).
Board MCU Status Description	Board MCU Status (Blue LED Pattern)
Optimizer system board not assigned to user. MCU is good.	LED blinks every 5 seconds
Optimizer system board assigned to user. MCU is good.	LED blinks every 5 seconds

Factory Reset

Important Notice: Performing an Optimizer system Factory Reset will delete the following system information and settings from the Optimizer system main circuit board:

- All Equipment information (→P.28)
- All Equipment Optimizer system Run Min information
- All stored schedules (→P.21)

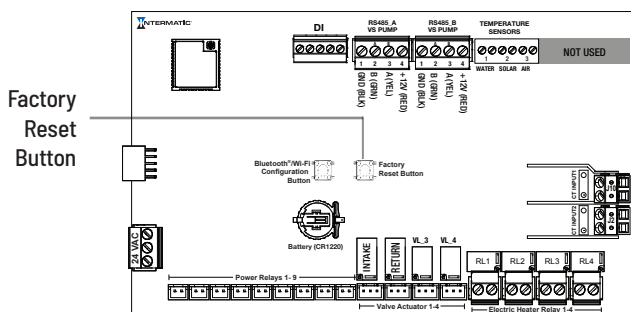
There are two methods to reset the Optimizer system as described below, Method A is preferred (→P.33).

A Software System Reset from the Optimizer app

- From Home, tap Settings > System Options > Factory Reset.

B System Reset button on the Optimizer Board

1. At the location of the Optimizer system Load Center, Power Center enclosure:
 - Loosen the two screws securing the outdoor control pane. Fold down the Control Panel down to access the of the Optimizer system main circuit board and the low voltage compartment. For more information, refer to the Optimizer System Installation Guide.
2. On the back of the main circuit board locate the Factory Reset Button, press and hold the button for 10 seconds, then release the button. Three (3) continuous beeps will be audible.
3. Within 10 seconds, press the Factory Reset Button again for 10 seconds. Three (3) long beeps will be audible.
4. The Optimizer system is successfully reset to the default factory settings.
5. The Optimizer system will reboot.



Optimizer System Circuit Board

Compatible Pool Equipment

Equipment Category	Equipment Type	Equipment Function	Brand/Model	Notes
Pumps	Single Speed Variable Speed	Filter Pump Cleaner Booster Pump Water Feature Pump Dedicated Solar Pump Spa Jet Pump	Pentair Hayward Jandy Other	
Valve Actuators	Valve Actuator	Water Feature Solar Heater Using Filter Pump Pressure Side Cleaner	Intermatic Pentair Hayward Jandy Other	
Heaters	Gas Heater, Heat Pump Heat & Cool Pump	Pool Spa Pool/Spa	Intermatic Pentair Hayward Jandy Other	
Lights	White Light Color Light	Pool Spa Landscape Water Feature	Pentair Hayward Jandy Other	
Water Feature	Laminars Bubblers, Dedicated Water Feature Pump		Pentair Hayward Jandy Other	
Cleaners	Pressure (FP & Booster Pump, Suction (Filter Pump only)		Pentair Hayward Jandy Other	
Generic	AUX 1-9	N/A	N/A	

Index

HOME	5
Pool/Spa Air Temp	7
Turn ON/OFF Heater	7
Pause System	22
Heat Mode	13
Heat Mode (SOLAR)	14
Turn On The Spa	10
Adjust Water Temperature	12
Adjust VS Pump Speed	12
Spa Mode / Pool Mode	17
Freeze Protection Mode	32
Equipment Control	19
Lights	49
OPTITOUCH Button	19
SCHEDULES	20
BACKUP/RESTORE	29
EGG TIMER (12 or 24 Hour)	30
SETTINGS	23
My Pool List	26
Wallet	27
Equipment Configuration	27
Configuration Info.	28
Temperature Sensors	28
Sanitizers & Chemistry	28
Backup/Restore.	28
System Options	30
WiFi Settings	30
Notification Setting	30
Show Spillway	30
Egg Timer Settings	30
Heater Cool Down	31
Daylight Savings Observed	31
Outdoor Panel Beeps	31
Temperature Settings	31
Pump Freeze Protection	33
Factory Reset	33

Account Info.	34
Change Password	34
Delete Account	34
Transfer Ownership	34
Questionnaire	34
Logout	34
Support	35
Contact Intermatic	35
Your Pool Service	35
Board Information	36
App Version x.x	36
Terms and Conditions	36
Privacy Policy	36
System Setup Wizard	37
Troubleshooting	52
Frequently Asked Questions	52
Factory Reset	33, 57



Scan this QR code to visit
the Optimizer website at
www.intermatic.com

Customer Service: 815.675.7000

email: techsupport@intermatic.com

www.intermatic.com



All trademarks and logos in this user's guide are the property of Intermatic® in the USA and/or other countries. Jandy® is a registered trademark of Zodiac Pool Systems. Hayward® is a registered trademark of Hayward Industries Inc. UltraTemp®, IntelliFlo®, MasterTemp® and Max-E-Therm® are registered trademarks of Pentair Inc. Bluetooth® is a registered trademark of The Bluetooth Special Interest Group (SIG). Third party registered logos are the property of their respective owners.

© 2026 All rights reserved. This document is subject to change without notice.

Please retain this manual for future use.

300PS10359