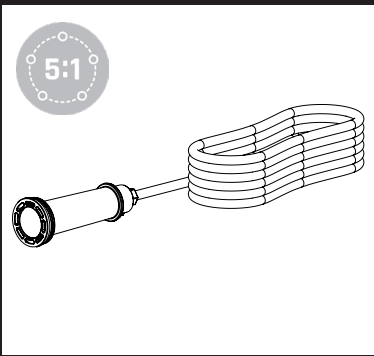


ColorSplash Vu Retro - J + 5:1 MODE

Pool/Spa LED Light

Owner's Manual



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25014J
25015J

Hayward Industries
1415 Vantage Park Dr., Suite 400
Charlotte, NC 28203
Phone: (908) 355-7995
www.hayward.com

IMPORTANT SAFETY INSTRUCTIONS

When using this electrical equipment, basic safety precautions should always be followed, including the following:



READ AND FOLLOW ALL INSTRUCTIONS

⚠ WARNING – Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

⚠ DANGER – Serious bodily injury or death can result if this light is not installed and used correctly. Follow all instructions for usage.

⚠ DANGER – Installers, pool operators, and pool owners must read these warnings and all instructions before using the pool and/or spa light.

⚠ WARNING – Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.

⚠ ATTENTION – This Owner's Manual contains important information about the installation, operation and safe use of this underwater pool and spa light. This manual should be given to the owner and/or operator of this equipment. Before installing this product, read and follow all warning notices and instructions in this manual. Failure to follow warnings and instructions can result in severe injury, death, or property damage.

⚠ WARNING – Drowning Risk to Children. To reduce unintended or unsupervised access to the pool by children, all pool equipment associated with the pool's operational system shall be positioned no less than 5 ft (1.5 m) from the pool. Children must be supervised at all times. Individuals, especially young children, must not sit on, step on, lean against or climb any operational equipment, as such actions may result in serious injury or drowning.



⚠ DANGER – Risk of Electric Shock or Electrocution. Underwater pool lights require high voltage which can shock, burn, or cause death.

Before working on or servicing pool lights, ALWAYS DISCONNECT power to the pool and/or spa lights at the source circuit breaker. Failure to do so could result in death or serious injury to service person, pool users or others due to electric shock. When installing and using this electrical equipment, basic safety precautions should always be followed.



⚠ DANGER – Risk of Electric Shock This underwater light must be installed by a licensed or certified electrician or a qualified pool professional in accordance with the current National Electrical Code (NEC), NFPA 70 or the Canadian Electrical Code (CEC), CSA C22.1. All applicable local installation codes and ordinances must also be adhered to. Improper installation will create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock, and may also cause damage to power source. Always disconnect the power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to service person, pool users or others due to electrical shock.



For countries in compliance with International Electrotechnical Commission (IEC) regulatory standards: The light fixture must be installed by a licensed or certified electrician or a qualified pool service person, in accordance with current IEC 364-7-702 and all applicable local codes and ordinance. Improper installation will create an electrical hazard, which could result in death or serious injury to pool user, installer or other due to electrical shock and may also cause damage to the property.



⚠ WARNING – Risk of Electrical Shock. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI. This light must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the light without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this light. Disconnect the light and have the problem corrected by a qualified service representative before using. Locate your pool so that the wall is at least 10 feet (3.048 m) from all electrical receptacles and at least 20 feet (6.1 m) from all receptacles not protected by a GFCI. It is also very important to locate the pool so that it is not under any electrical wiring, that is less than 18 feet (5.49 m) vertically above the pool wall and within an area located 10 feet outside the pool walls. The pool must also never be located under any lighting fixture or within 5 feet (1.5 m) measured horizontally from any fixture mounted less than 5 feet (1.5 m) vertically above the pool water level.

NOTICE – The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire should be discarded/destroyed.

INSTALLERS AND INSPECTORS: The ColorSplash Vu Retro - J pool light and plastic niche form a complete non-metallic low voltage lighting system. This configuration does not require bonding or grounding when powered by a listed, Class 2, 100-Watt or 300-Watt transformer and installed in compliance with the current National Electric Code (NEC).

UNBONDED LIGHTING NEC PROVISIONS: When the UL listed non-metallic COLORSPLASH VU RETRO - J POOL LIGHT low voltage lights are used with the COLORSPLASH VU RETRO POOL LIGHT - J approved niches, the current NEC provides an exception to luminaire bonding and grounding in Article 680.6 and 680.23

POOL WATER BONDING NEC PROVISIONS: For Pool Water Bonding required by NEC Article 680.26C, concrete pools are considered conductive (refer to 680.26 (b)(1) due to the porosity of concrete and the bonding of rebar. No additional bonding is required.

POOL AND SPA FIXED LUMINAIRES: Follow these guidelines when installing or replacing COLORSPLASH VU RETRO - J POOL LIGHT fixed luminaires:

FOR LIGHT OPERATION, ONLY USE A SAFETY ISOLATION TRANSFORMER. NOTE: Connect both wires to the corresponding circuit wires in the Junction Box (black wire to power, and white wire to common)

FIXED POOL AND SPA LUMINAIRES SPECIFICATION: 12 VAC 50/60 Hz

NOTICE – The ColorSplash Vu Retro - J pool light is a non-servicable light. The complete light assembly must be replaced. Connecting the unit improperly will damage the light. 12-14 VAC only.

SAVE THESE INSTRUCTIONS

Introduction

This manual describes how to install, replace, and operate the ColorSplash Vu Retro - J Pool Light for pools and spas. Our energy-efficient LED ColorSplash Vu Retro - J Pool Lights provide a brilliant spectrum of colors that give a lasting impression on any swimming pool. Choose a color light show or select one of the fixed colors to create virtually endless range of dramatic underwater lighting effects for a spectacular effect in your pool and spa.

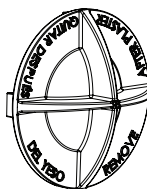
Technical Specifications

Nominal Supply Voltage	12-14 VAC, 50/60 Hz
Power Consumption	19 Watts Max Per Light
Fault Protection	Run Dry Thermal Cut Off. Over Current Fuse Protection.

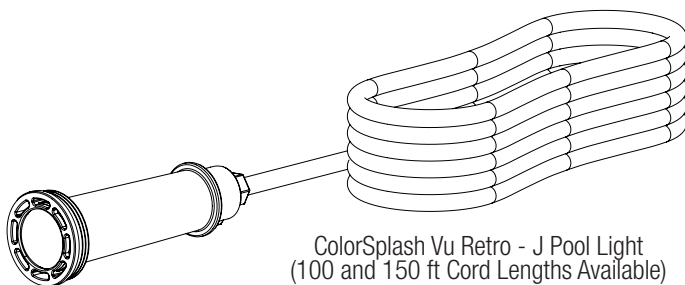
What's Included



O-Ring Lube



Installation Tool/Plaster Cover

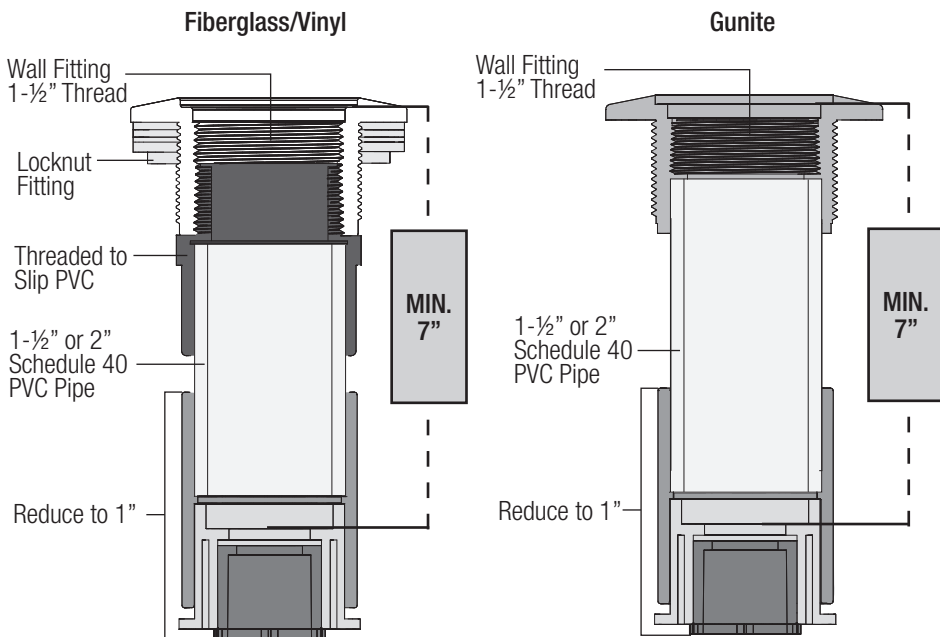


ColorSplash Vu Retro - J Pool Light
(100 and 150 ft Cord Lengths Available)

Compatibility

The ColorSplash Vu Retro - J can be installed with either 1-½" or 2" Schedule 40 PVC pipe with the appropriate reducers. **Wall fittings must have a 1-½" thread.**

IMPORTANT - There must be a **minimum clearance of 7 in.** between the topmost thread of the wall fitting and the seating surface of the bottom reducer. Assemble the PVC pipe and required reducers to maintain the minimum 7" clearance as shown below.



Installation

Wiring Overview

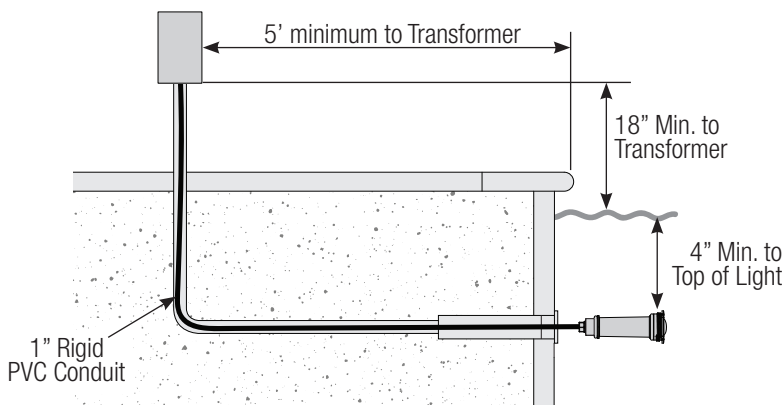
IMPORTANT - The following information describes the tasks that must be completed by an electrician before the light fixture is installed.

⚠ WARNING – Be sure that the pool or spa meets the requirements of the current National Electrical Code (N.E.C.) Article 680-22 and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical Code which the pool's electrical system must meet are as follows:

- The ColorSplash Vu Retro - J Pool Light Fixture requires a Class 2, isolating low voltage ungrounded output (100W or 300W) 120VAC / 12- 14 VAC step down transformer.

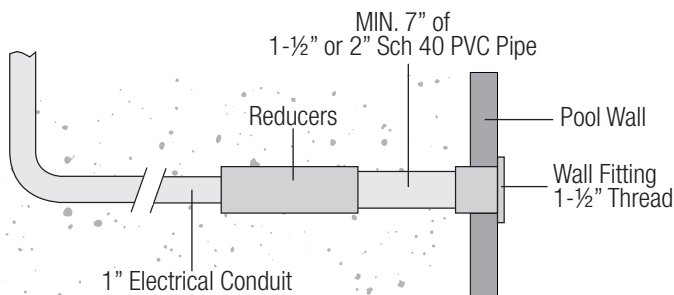
- The lighting circuit has a Ground Fault Circuit Interrupter (GFCI) for 120 VAC transformers and has an appropriately rated circuit breaker. The conductors on the load side of the GFCI circuit shall not occupy conduit, boxes, or enclosures containing other conductors unless the additional conductors are also protected by a GFCI. Refer to current local codes for complete details. 1" PVC electrical conduit needs to be installed from the pool light power supply/transformer location to the rear of the supplied niche/sleeve.
- The Junction Box and the low voltage transformer is located at least 18 in. (45.7 cm) above water level, at least 4 in. (10.15 cm) above ground level and at least 48 in. (1.22 m) from the edge of the pool.
- The ColorSplash Vu Retro - J Pool Light must be properly installed so that the top edge of the lens of the product is at least 4 in. (10.15 cm) below (not more than 48 in. [121.8 cm] below in Canada) the surface of the water in the pool or spa. Power on unit through customer provided timer, light switch or automated control.
- To be certain that the pool or spa electrical system meets all applicable requirements, the electrician should also consult the local building department.
- After installation, power on light fixture through customer provided timer, light switch or automated control.

Installation Overview



Pipe Sleeve Installation

NOTE: Be sure installation includes proper reducers to accommodate a 1" electrical conduit.



1. Identify installation location on a vertical wall. The top lens of the light must be a minimum of 4" below normal water level.
2. Install a 1-½" (3.8 cm) or 2" (5 cm) Schedule 40 PVC pipe in the desired location.
3. Allow at least 1" (2.5 cm) of the pipe sleeve to extend on both sides of the wall. Cut any excess pipe to allow final installation to be flush with plaster.
4. Reduce the assembly to 1" (2.5 cm) by gluing the necessary reducer bushings to the back side of the pipe sleeve.
5. Glue the 1" (2.5 cm) conduit into the bottom reducer. Ensure the pipe accommodates the total length of the light, fitting, and reducer assembly (See page 4).
6. Apply PVC cement to the inside of the sleeve. Slide the wall fitting (with 1-½" thread) into the sleeve until it is flush with the wall.
7. Apply plaster to the pool wall up to the outer edge of the wall fitting trim ring. **Be sure not to fill the fitting and or fitting threads with pool plaster.**

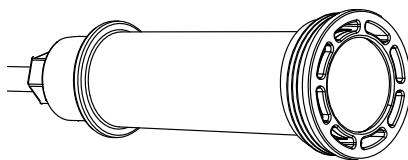
Light Installation

IMPORTANT - Make sure the power is OFF at the intended transformer.

1. Route the Vu Retro 16/2 AWG power cord through the wall fitting and pipe sleeve to the 12-14 VAC pool transformer or junction box with a 14V tap. Leave at least 6" (15.2 cm) of extra cord at the transformer/junction box.
2. Strip the two conductors and connect them to the corresponding wires in the transformer/junction box. **Be careful not to damage the copper conductor.** Secure the enclosure cover.

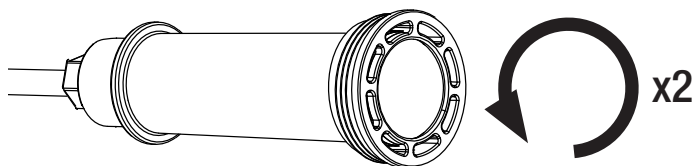
IMPORTANT - This light is designed for underwater use only. **Only operate the light out of water for a brief test (UNDER 1 MINUTE)** to prevent overheating and power cycling.

3. Before locking into the pipe sleeve, test the light by turning on power at the transformer for **LESS THAN ONE MINUTE**. **Be sure that all line and load side wiring is complete and not exposed.**
4. After turning off power, apply thread tape to the threads around the lens retainer.

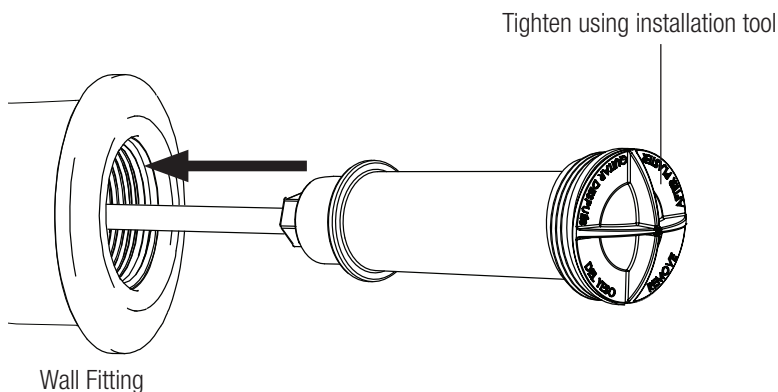


Apply Thread Tape to Threads

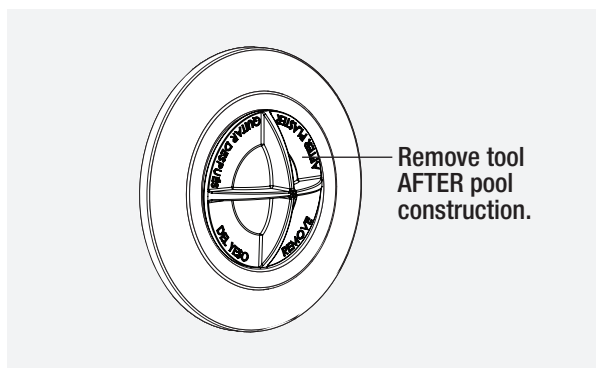
5. Before securing into the wall fitting, turn the light two turns counterclockwise to pre-load the cable and reduce tension.



6. Tighten the light into the wall fitting using the supplied installation tool. **Do not overtighten.**



7. Leave the installation tool on the light to serve as a protective cover until pool construction is complete.



Operation



ColorSplash Vu Retro - J light fixtures are designed to operate in 5:1 MODE: Universal ColorLogic, Pentair®, Jandy®, ColorSplash, OmniDirect Mode.

Universal ColorLogic Mode

Use this mode for installations with Hayward ColorLogic lights. The ColorLogic lights will operate in the same manner as the connected ColorSplash Vu Retro - J light(s).

Pentair® Mode

Use this mode when installing your new light in systems with Pentair Intellibrite® lights. The Pentair lights will operate in the same manner as the connected ColorSplash Vu Retro - J light(s).

Jandy® Mode

Use this mode when installing your new light in systems with Jandy lights. The Jandy lights will operate in the same manner as the connected ColorSplash Vu Retro - J light(s).

ColorSplash Mode

Use this mode for installations with other ColorSplash lights. The ColorSplash lights will operate in the same manner as the connected ColorSplash Vu Retro - J light(s).

OmniDirect Mode

OmniDirect mode offers unique colors as well as speed and brightness control. It must be configured and controlled by a Hayward OmniLogic, OmniHub or other Omni type pool controller. Refer to the controller's manual for more information.

To change modes

1. Turn on lights and then turn off for 11-15 seconds. Repeat this sequence two more times. The light should blink one of five colors to indicate which mode is activated. Refer to the table below to determine which mode is currently active. Note that **new lights default to Jandy mode**.

Mode	Color
Universal ColorLogic	Red
Pentair	White
Jandy (Default)	Blue
ColorSplash	Green
OmniDirect	Magenta

2. To change modes again, turn light off and back on. The light will then advance to the next mode. Repeat this sequence until you arrive at the desired mode.
3. When the light is set to the desired mode, remove power from the lights for at least one minute. The light will restart in the new mode the next time you turn it on.

To reset to Universal ColorLogic mode

Turn lights on then turn off for 11-15 seconds. Repeat sequence three (3) additional times (for a total of four) to set to Universal ColorLogic mode. The light show software mode protocol shall override any previous mode to ensure the ability to reset the light to the default setting.

Universal ColorLogic Mode

Light colors and shows are controlled through power-cycling: a method of changing light programs by turning the light off and on, removing the need for a special controller or interface. The number assigned to each light show and color represents the number of power-cycles necessary to activate it.

- To activate the light: Turn on the switch.
- To deactivate the light: Turn off the switch.
- To advance to the next light program (fixed color or color show): Turn off the switch and turn back on within 10 seconds. Repeat until you reach the desired light program.

When the light has been off for over 60 seconds, and is first turned on, it will illuminate white for 15 seconds, then proceed to the last running fixed color or color show.

NOTE: Do not power cycle the light during the first 15 seconds of white to prevent losing synchronization with other connected lights.

Light Synchronization

Vu Retro - J lights can synchronize with Hayward ColorLogic lights so they all display the same colors and shows at the same time. For light synchronization, all lights must be wired to the same switch. Once installed, all lights should automatically synchronize. To re-synchronize your lights, turn the switch on, then back off. Wait between 11 and 14 seconds and turn the switch back on. When the lights come back on, they should enter Program #1 (Voodoo Lounge) and be synchronized.

Programs

Universal ColorLogic Light Shows and Solid Colors		
1. Voodoo Lounge (Show)	7. Cloud White (Solid Color)	13. Tranquility (Show)
2. Deep Blue Sea (Solid Color)	8. Warm Red (Solid Color)	14. Gemstone (Show)
3. Royal Blue (Solid Color)	9. Flamingo (Solid Color)	15. USA (Show)
4. Afternoon Skies (Solid Color)	10. Vivid Violet (Solid Color)	16. Mardi Gras (Show)
5. Aqua Green (Solid Color)	11. Sangria (Solid Color)	17. Cool Cabaret (Show)
6. Emerald (Solid Color)	12. Twilight (Show)	

Pentair Mode

Light colors and shows are controlled through power-cycling: a method of changing light programs by turning the light off and on, removing the need for a special controller or interface. The number assigned to each light program represents the number of power-cycles necessary to activate it.

- To activate the light: Turn on the switch.
- To deactivate the light: Turn off the switch.
- To select a light program (fixed color or color show): Turn the switch off and back on the number of times that corresponds to your desired show or color. Use the table below to determine how many power cycles are required for each light program.

NOTE: The number of power cycles is always the same for each program, even if another program is currently active. Always select a program using its corresponding number of cycles.

Light Synchronization

Vu Retro - J lights can synchronize with Pentair Intellibrite® lights so they all display the same colors and shows at the same time. For light synchronization, all lights must be wired to the same switch. Once installed, all lights should automatically synchronize.

Programs

Pentair Program Name	Light Shows and Solid Colors
1. SAM Show	Cycles through white, magenta, blue and green colors
2. Party Show	Rapid color changing building energy and excitement
3. Romance Show	Slow color transitions creating a mesmerizing and calming effect
4. Caribbean Show	Transitions between a variety of blues and greens
5. American Show	Patriotic red, white and blue transition
6. California Sunset Show	Dramatic transitions of orange, red and magenta tones
7. Royal Show	Richer, deeper color tones
8. Blue	Fixed color
9. Green	Fixed color
10. Red	Fixed color
11. White	Fixed color
12. Magenta	Fixed color
13. Color Lock	Save current color effect during a color light show
14. Return	Activate last saved color effect

*Colors and shows may differ in appearance across light models, even when designed to produce equivalent effects, due to inherent LED properties and lighting conditions.

Color Lock Feature (Program 13)

You can select a non-standard solid color at any time by activating the color lock feature. The color lock feature allows you to stop a light show and “lock” on any color during an active light show. To “lock” a solid color, power cycle the pool light switch off/on thirteen times when the desired color is displayed during the active light show.

Return Feature (Program 14)

You can return to the last color locked color effect while in a light show mode or fixed solid colors by activating the return feature. To return to the last color locked color effect, power cycle fourteen times. After five seconds, the last saved color lock effect will be displayed.

When connected to a Pentair Controller: Select fixed colors and color shows using the controller. Refer to your control's manual to determine compatibility and for specific information about configuration and operation.

Jandy Mode

Light colors and shows are controlled through power-cycling: a method of changing light programs by turning the light off and on, removing the need for a special controller or interface. The number assigned to each light program represents the number of power-cycles necessary to activate it.

- To activate the light: Turn on the switch.
- To deactivate the light: Turn off the switch.
- To advance to the next light program (fixed color or color show): Turn off the switch and turn back on within 3 seconds. Repeat until you reach the desired light program.

If the light is off for 7 seconds or more, it will return to the most recently used color program when turned back on. This function allows you to keep your favorite color mode activated upon every start up.

Light Synchronization

Vu Retro - J lights can synchronize with Jandy lights so they all display the same colors and shows at the same time. For light synchronization, all lights must be wired to the same switch. Once installed, all lights should automatically synchronize. To re-synchronize your lights, turn the switch on, then back off, wait for 5 seconds and turn the switch back on. When the lights come back on, they should enter Program #1 (Alpine White) and be synchronized.

Programs

Jandy Light Shows and Solid Colors	
1. Alpine White (Solid Color)	8. Magenta (Solid Color)
2. Sky Blue (Solid Color)	9. Violet (Solid Color)
3. Cobalt Blue (Solid Color)	10. Slow Color Splash (Show)
4. Caribbean Blue (Solid Color)	11. Fast Color Splash (Show)
5. Spring Green (Solid Color)	12. America the Beautiful (Show)
6. Emerald Green (Solid Color)	13. Fat Tuesday (Show)
7. Emerald Rose (Solid Color)	14. Disco Tech (Show)

*Colors and shows may differ in appearance across light models, even when designed to produce equivalent effects, due to inherent LED properties and lighting conditions.

When connected to a Jandy Controller: Select fixed colors and color shows using the controller. Refer to your control's manual to determine compatibility and for specific information about configuration and operation.

ColorSplash Mode

Light colors and shows are controlled through power-cycling: a method of changing light programs by turning the light off and on, removing the need for a special controller or interface. The number assigned to each light program represents the number of power-cycles necessary to activate it.

- To activate the light: Turn on the switch.
- To deactivate the light: Turn off the switch.
- To select a light program (fixed color or color show): Turn the switch off and back on the number of times that corresponds to your desired show or color. Use the table below to determine how many power cycles are required for each light program.

NOTE: The number of power cycles is always the same for each program, even if another program is currently active. Always select a program using its corresponding number of cycles.

Light Synchronization

Vu Retro - J lights can synchronize with other ColorSplash lights so they all display the same colors and shows at the same time. For light synchronization, all lights must be wired to the same switch. Once installed, all lights should automatically synchronize.

Programs

ColorSplash Program Name	Light Shows and Solid Colors
1. Peruvian Paradise	Cycles through white, magenta, blue and green colors
2. Super Nova	Rapid color changing building energy and excitement
3. Northern Lights	Slow color transitions creating a mesmerizing and calming effect
4. Tidal Wave	Transitions between a variety of blues and greens
5. Patriot Dream	Patriotic red, white and blue transition
6. Desert Skies	Dramatic transitions of orange, red and magenta tones
7. Nova	Richer, deeper color tones
8. Parisian Blue	Fixed color
9. New Zealand Green	Fixed color
10. Brazilian Red	Fixed color
11. Arctic White	Fixed color
12. Miami Pink	Fixed color
13. Color Lock	Save current color effect during a color light show
14. Return	Activate last saved color effect

Color Lock Feature (Program 13)

You can select a non-standard solid color at anytime by activating the color lock feature. The color lock feature allows you to stop a light show and “lock” on any color during an active light show. To “lock” a solid color, power cycle the pool light switch off/on thirteen times when the desired color is displayed during the active light show.

Return Feature (Program 14)

You can return to the last color locked color effect while in a light show mode or fixed solid colors by activating the return feature. To return to the last color locked color effect, power cycle fourteen times. After five seconds the last saved color lock effect will be displayed.

Memory Mode

When your light fixtures are turned off for longer than 10 seconds, the light show or solid color on display will be stored. The next time the power is turned on, the fixture will display that saved memory light show or color.

OmniDirect Mode

OmniDirect mode offers unique colors as well as speed and brightness control. To use OmniDirect mode, the ColorLogic lights must be configured and controlled by a supporting Hayward “Omni” pool control. Compatible pool controls include the Hayward OmniLogic, OmniHub and OmniPL. Refer to your control’s manual to determine compatibility and for specific information about configuration and operation.

Programs

OmniDirect Light Shows and Solid Colors		
1. Show-Voodoo Lounge	10. Fixed-Vivid Violet	19. Fixed-Orange
2. Fixed-Deep Blue Sea	11. Fixed-Sangria	20. Fixed-Gold
3. Fixed-Royal Blue	12. Show-Twilight	21. Fixed-Mint
4. Fixed-Afternoon Skies	13. Show-Tranquility	22. Fixed-Teal
5. Fixed-Aqua Green	14. Show-Gemstone	23. Fixed-Burnt Orange
6. Fixed-Emerald	15. Show-USA	24. Fixed-Pure White
7. Fixed-Cloud White	16. Show-Mardi Gras	25. Fixed-Crisp White
8. Fixed-Warm Red	17. Show-Cool Cabaret	26. Fixed-Warm White
9. Fixed-Flamingo	18. Fixed-Yellow	27. Fixed-Bright Yellow

⚠ WARNING – During off/on power cycling, prior to the selected show/color displaying, no illumination will occur. This is normal during the cycling process. During this period, the pool/spa will be dark and precautions should be taken to avoid any unforeseen accidents. Failure to observe this warning may result in serious injury or death to pool/spa users.

HAYWARD® Pool Products Limited Warranty

Hayward Pool Products, Inc., warrants the components of this product to be free from defects in materials and workmanship during the warranty period. Please visit <https://hayward.com/support/resources/warranty> for product warranty details.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care, Acts of God or as specified in installation and operations manual. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option.

Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date.

To obtain warranty service, please contact the place of purchase or the nearest Hayward Authorized Service Center. For assistance on your nearest Hayward Authorized Service Center, please visit us at <https://hayward.com/dealerlocator>.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The Hayward Pool products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Hayward Industries, 1415 Vantage Park Dr., Suite 400, Charlotte, NC 28203

***Supersedes all previous publications**

Register your product at <https://hayward.com/support/resources/warranty/product-registration>



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technical support, visit our website at
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