



Zapi 1.5

USER GUIDE

HANDHELD ADDRESSING TOOL FOR FULL SPECTRUM DIGITAL LIGHTS

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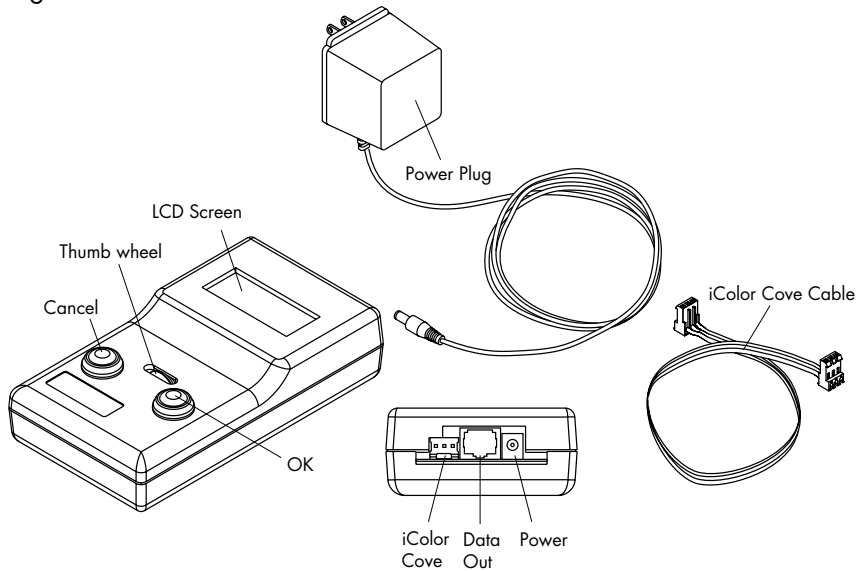
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Zapi DMX Table 37

About Zapi

Zapi is a hand-held address programmer designed to assign DMX addresses to Color Kinetics fixtures. Zapi's serial address feature lets you address ColorBlast 6, ColorBlast 12, ColorBurst 4, ColorBurst 6 and iColor Accent using factory set serial numbers. With the Fresco mode you can easily address the one-, two- and four-foot iColor Fresco fixtures. Zapi gives you the option of addressing C-Splash with a light number or setting standalone effects. See Fig. 1.

Fig. 1



How It Works

Zapi connects to Color Kinetics lights, either directly or through a Color Kinetics power supply. Using the Zapi controls, and following the prompts, you specify a light number for each light.

Zapi Features

Zapi's user-friendly interface guides you through identifying and addressing your Color Kinetics lights. Follow the instructions for your lights to easily setup Zapi to begin addressing.

Features	Description
LCD Screen	Prompts you for information needed to identify, address, and test the lights.
Thumb Wheel	Scrolls through programmed options.
OK Button	Press OK to enter information, accept prompt options, and proceed to the next prompt.
Cancel Button	Press CANCEL to decline menu option and move one prompt back.
iColor Cove	Use this 3-pin connector with the iColor Cove cable to address iColor Cove fixtures without the need of a power supply.
Data Out	Use this connector with a CAT5 data cable with RJ45 connectors to address fixtures attached to a power/data supply.
Power	Plug the Zapi power cable to this connector.
Accessories	Description
Power Plug	Connect plug to a wall outlet and to the Power connector or Zapi.
Cove Cable	Use this jumper cable to connect iColor Cove fixture directly to Zapi for programming.
Items Needed	Description
RJ45 Connector Cable	Use a CAT5 RJ45 connector to attach Zapi to the DMX IN port on PDS-150e or PDS-500e

Zapi Modes

Zapi uses four modes to set light address and standalone effects: **SERIAL NUMBER**, **ALL SAME ADDRESS**, **STANDALONE**, and **FRESCO**. Mode choice is product dependent. Refer to the table below for the modes to use with your Color Kinetics light. Refer to the section for your lights for the appropriate mode for your installation.

	Serial Number	All Same DMX	Standalone	Fresco
iColor Accent	X	X		
iColor Cove		X		
iColor Fresco		X		X
iColor MR		X		
ColorBlast 6	X	X		
ColorBlast 12	X	X		
ColorBurst 4	X	X		
ColorBurst 6	X	X		
C-Splash		X	X	

Scope of This User Guide

The goal of this user guide is to explain in an easily understood language the necessary steps to setup and address Color Kinetics lights using Zapi.

The following sections contain instructions for setting up and addressing each type of Color Kinetics light. Refer to the section for your lights for step-by-step addressing instructions.

Hint: *Have the installation guides for your lights and power supply handy during set up.*

Understanding Addressing

Color Kinetics lights use the DMX512 protocol to stream data from the controller to the fixtures. Each light uses three sequentially numbered DMX channels: one each for the colors red, green, and blue. Therefore, you can assign 170 Color Kinetics light numbers to a DMX512 universe. (See *Zapi DMX Table* on page 37 for a complete listing of all light numbers and their corresponding DMX channels.)

Address the fixtures by assigning each one a light number. This light number corresponds to the three DMX channels used by the light—light number 1 is DMX channels 1, 2, and 3; light number 2 is DMX channels 4, 5, and 6; and so on.

For light show designs with all lights working in unison—the same color at the same time—no re-addressing is necessary. If the light show design has lights working independently—different colors at different times—then the fixtures must be re-addressed with unique light numbers.

Color Kinetics bColor Series—C-Splash, ColorBlast, and ColorBurst—fixtures are pre-addressed to light number 1. While iColor Series—iColor Accent, iColor Fresco, and iColor Cove—fixtures are pre-addressed in sequence according to the number of one-foot segments in the fixture. For example, a four-foot iColor Accent fixture has four one-foot segments, numbered 1 through 4, that can be addressed separately.

Setting Up Light Fixtures

How you set up your fixtures for addressing depends on the light product and the addressing mode you choose. You can use Zapi to set each fixture with an individual address or set all fixtures to the same DMX address. Depending on the installation, light addressing can occur pre-installation or post-installation.

The following section demonstrate the methods for setting up single-light address, multi-light addressing, and multi-power supply addressing. The addressing method you choose is based on the nature of the installation, the placement of the fixtures and power/data supplies, and the intended lighting effects for your installation.

For all set ups, record the serial numbers of each fixture and note their location in the installation scheme. Having these serial numbers recorded and their positions noted will save expedite the addressing process and minimize the time needed to generate beautiful light shows.

Refer to the following methods for the set up best suited for your product and addressing scheme.

Note: *If your lights have user-accessible DIP switches, set all switches to the OFF position for DMX Control Mode.*

CAUTION: Refer to the installation guide for your products for detailed wiring instructions and maximum number of fixtures per power supply.

Single Light Set Up

Single light set up can be used with any Color Kinetics fixture. Attach a fixture to the power/data supply. Using a CAT5 data cable with RJ45 connectors, attach Zapi to *DMX IN* on the power/data supply. This set up method is ideal for setting individual light numbers prior to installation. See Fig. 2.

Multi-Light Set Up

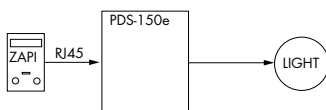
Multi-light set up can be used with any Color Kinetics fixture, and is ideal for the serial addressed fixtures. Attach fixtures to the power/data supply. Using a CAT5 data cable with RJ45 connectors, attach Zapi to *DMX IN* on the power/data supply. This set up method lets you set all fixtures to the same address or assign individual addresses to serial number addressed fixtures – pre- or post-installation. See Fig. 2.

Multi-Power/Data Supply Set Up

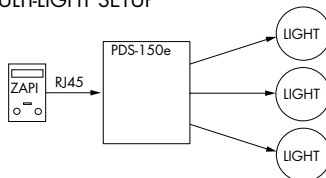
Multi-power/data supply set up can be used with any Color Kinetics fixture, and is ideal for serial addressing. After installing the fixtures and power/data supplies, attach Zapi to the first power supply in the installation using a CAT5 data cable with RJ45 connectors. See Fig. 2.

Note: For post-installation serial addressing, record all serial numbers and layout positions prior to installation.

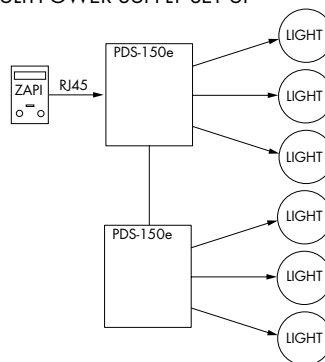
SINGLE LIGHT SET UP



MULTI-LIGHT SETUP



MULTI-POWER SUPPLY SET UP



iColor Fresco Single Light Set Up

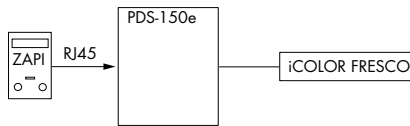
iColor Fresco single light set up lets you address an iColor Fresco fixture. Use the *Serial* mode to address each 1-foot segment of the Fresco fixtures or use the *All Same DMX* mode to address all segments of a multi-segment fixture to the same light number. Attach a fixture to the power/data supply. Using a CAT5 data cable with RJ45 connectors, attach Zapi to *DMX IN* on the power/data supply. See Fig. 3

iColor Fresco Multi-Light Set Up

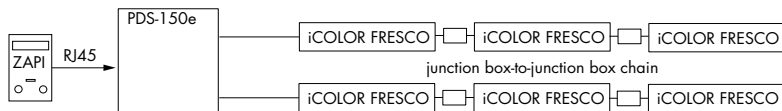
iColor Fresco multi-light set up lets you address the iColor Fresco fixtures. Use the *Serial* mode to address each 1-foot segment of the Fresco fixtures or use the *All Same DMX* mode to address all segments to the same light number. Attach fixtures to the power/data supply following the instructions in the iColor Fresco Installation Guide. Using a CAT5 data cable with RJ45 connectors, attach Zapi to *DMX IN* on the power/data supply. This set up method lets you set all segments, of a multi-segment fixture, to the same address or assign individual light numbers to individual segments – pre- or post-installation. See Fig 3.

Fig 3

iCOLOR FRESCO SINGLE LIGHT SET UP



iCOLOR FRESCO MULTI-LIGHT SET UP



See *iColor Fresco Installation Guide* for number of lights per run.

iColor Cove Single Light Set Up

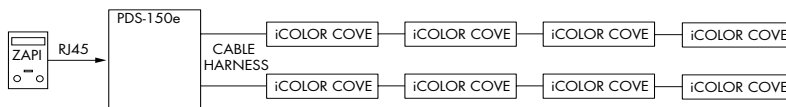
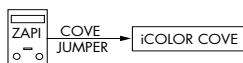
iColor Cove single light set up lets you individually set the DMX address for iColor Cove fixtures without the necessity of a power/data supply. Using the provided iColor Cove cable, connect Zapi directly to an iColor Cove fixture. Using the *All Same DMX* mode, set a light number for the fixture. This method is best for pre-installation addressing. See Fig. 4.

iColor Cove Multi-Light Set Up

iColor Cove multi-light set up lets you set multiple fixtures to the same DMX address. Attach fixtures to the power/data supply following the instructions in the iColor Cove Installation Guide. Using an RJ45 connector, attach Zapi to the power supply. Using the *All Same DMX* mode, set a light number for all fixtures simultaneously. See Fig. 4.

Fig. 4.

iCOLOR COVE SINGLE LIGHT SET UP



See *iColorCove Installation Guide* for number of lights per run.

NOTE: In the multi-light setup, all fixtures attached to the power/data supply will be addressed simultaneously with the same light number.

iColor Accent Single Light Set Up

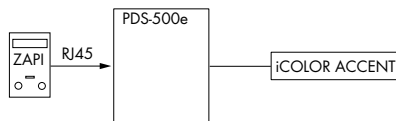
iColor Accent single light set up lets you address an iColor Accent fixture. Use the *Serial* mode to address each 1-foot segment of the Accent fixtures or use the *All Same DMX* mode to address all segments of a multi-segment fixture to the same light number. Attach a fixture to the power/data supply. Using a CAT5 data cable with RJ45 connectors, attach Zapi to *DMX IN* on the power/data supply. See Fig 5.

iColor Accent Multi-Light Set Up

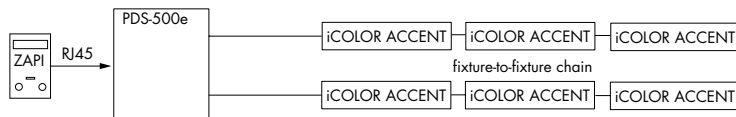
iColor Accent multi-light set up lets you address the iColor Accent fixtures. Use the *Serial* mode to address each 1-foot segment of the Fresco fixtures or use the *All Same DMX* mode to address all segments to the same light number. Attach fixtures to the power/data supply following the instructions in the iColor Accent Installation Guide. Using a CAT5 data cable with RJ45 connectors, attach Zapi to *DMX IN* on the power/data supply. This set up method lets you set all segments, of a multi-segment fixture, to the same address or assign individual light numbers to individual segments—pre- or post-installation. See Fig. 5.

Fig. 5

iCOLOR ACCENT SINGLE LIGHT SET UP



iCOLOR ACCENT MULTI-LIGHT SET UP



See *iColor Accent Installation Guide* for number of lights per run.

Using Zapi with bColor Series

ColorBlast 6, ColorBlast 12, ColorBurst 4, and ColorBurst 6

The ColorBlast and ColorBurst series fixtures all feature serial number addressing. Each ColorBlast and ColorBurst fixture is programmed with a serial number and addressed to light number one at the time of manufacture. Fixtures can be address before or after installation.

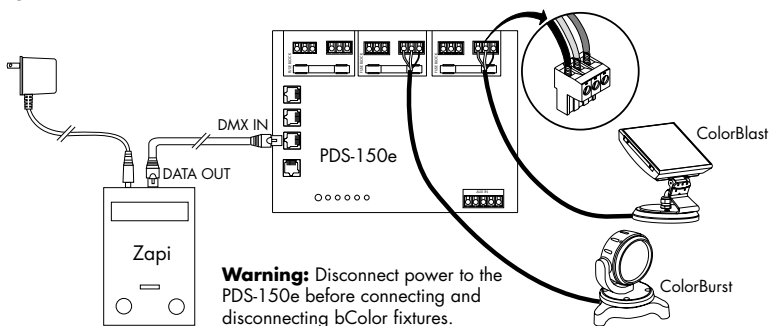
Serial number addressing is flexible, allowing for pre- and post-installation addressing. However, pre-addressing is recommended for most installations. Refer to *Setting Up Light Fixtures* on page 5 for the set up instructions. Record the serial numbers and note the fixture's placement in the installation prior to installing and/or addressing the lights.

Setting Up bColor Series Fixtures

Warning: Ensure power to the PDS-150e is off before connecting or disconnecting fixtures.

1. Connect ColorBlast or ColorBurst fixtures to the PDS-150e power supply as described in the PDS-150e Installation Guide. Refer to *Setting Up Light Fixtures* on page 5.
2. Connect one end of a CAT5 data cable with RJ45 connectors to the DMX IN port on the PDS-150e, and the other end to the DATA OUT port on Zapi. See Fig. 6.

Fig. 6



Addressing bColor Fixtures

After powering up Zapi the product titles display on the LCD screen followed by the initial default prompt: **ZAPI MODE: SERIAL NUMBER**. At this point, follow the prompts detailed below to address each bColor fixture.

Note: *At any point during the addressing you can return to the previous prompt by pressing the red cancel button.*

Prompt	Action
ZAPI MODE: Serial Number	At the ZAPI MODE: SERIAL NUMBER prompt, press the green OK button to enter the mode and proceed.
S/N Byte 0? >00< 00 00 00	Enter the first two digits of the fixture serial number. Scroll to the characters that correspond to the first two digits, then press the OK button.
S/N Byte 1? 00 >00< 00 00	Enter the second two digits of the fixture serial number. Scroll to the characters that correspond to the second two digits, then press the OK button.
S/N Byte 2? 00 00 >00< 00	Enter the third two digits of the fixture serial number. Scroll to the characters that correspond to the third two digits, then press the OK button.
S/N Byte 3? 00 00 00 >00<	Enter the fourth two digits of the fixture serial number. Scroll to the characters that correspond to the fourth two digits, then press the OK button.
Test S/N? Cancel / OK?	Press the OK button to test the serial number for fixture you are addressing. The fixture will blink three time then come on in standby mode to indicate that you've entered the correct serial number.

Prompt	Action
S/N Test OK? Cancel / OK?	<p>If the lights are on, press OK to continue.</p> <p>If the lights are off, then you've enter an incorrect serial number. Press cancel to move back and correct your mistake.</p> <p>After correcting and testing the serial number, press the OK button to proceed.</p>
Light Number? 001	<p>Use the thumb wheel to select a light number (001 to 170) for the segment.</p> <p>Press OK to enter the number and proceed.</p>
Program Light #? Cancel / OK?	<p>If you are satisfied with your selection, press OK.</p> <p>The lights turn red while programming then come on in standby mode.</p>
Test Light #? Cancel / OK?	<p>Press OK to test the light number.</p> <p>A successful test is indicated when the lights blink red, green, blue, then off.</p>
Light Test OK? Cancel / OK?	<p>If the lights blinked red, green, blue, then off, press OK to proceed.</p> <p>If lights did not blink, press cancel and begin addressing process from the beginning.</p>
S/N Byte 0? >00< 00 00 00	<p>After the fixture is addressed, enter the serial number for the next fixture and repeat the steps to address the next fixture. Continue until all fixtures are addressed.</p>

Using Zapi with iColor Accent

iColor Accent is available in one-, four-, and eight-foot sizes. Each fixture contains one, four, or eight light segments, depending on the size, which must be addressed separately. Each segment is programmed with a serial number and addressed sequentially beginning with light number one at the time of manufacture. For example, a four-foot fixture is addressed with light numbers one through four. Fixtures can be addressed before or after installation.

Serial number addressing is flexible, allowing for pre- and post-installation addressing. However, pre-addressing is recommended for most installations. Refer to *Setting Up Light Fixtures* on page 5 for the set up instructions. Record the serial numbers and note the fixture's placement in the installation prior to installing and/or addressing the lights.

Set up fixtures for pre-installation addressing or install fixtures for post-installation addressing. Refer to the product installation guides for instructions.

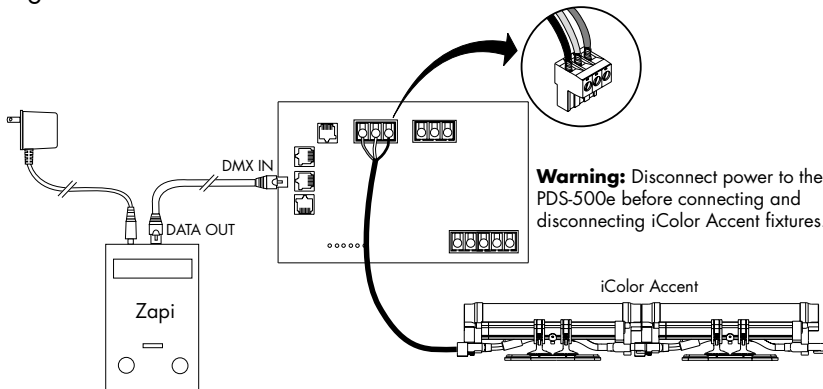
Setting Up iColor Accent

Warning: Ensure power to the PDS-500e is off before connecting or disconnecting iColor Accent.

1. Connect iColor Accent fixtures to the PDS-500e power/data supply as described in the PDS-500e Installation Guide. Refer to *Setting Up Light Fixtures* on page 5.
2. Connect one end of a CAT5 data cable with RJ45 connectors to the DMX IN port on the PDS-500e, and the other end to the DATA OUT port on Zapi. See Fig. 7.

After connecting fixtures to the PDS-500e, connect power to the Zapi and the PDS-500e. The fixtures are in standby mode and you are now ready to begin addressing the connected fixture.

Fig 7



Addressing iColor Accent Fixtures

After powering up Zapi the product titles display on the LCD screen followed by the initial default prompt: **ZAPI MODE: SERIAL NUMBER**. At this point, follow the prompts detailed below to address each segment of iColor Accent.

Note: At any point during the addressing you can return to the previous prompt by pressing the red cancel button.

Prompt	Action
ZAPI MODE: Serial Number	At the ZAPI MODE: SERIAL NUMBER prompt, press the green OK button to enter the mode and proceed.
S/N Byte 0? >00< 00 00 00	Enter the first two digits of the fixture serial number. Scroll to the characters that correspond to the first two digits, then press the OK button.
S/N Byte 1? 00 >00< 00 00	Enter the second two digits of the fixture serial number. Scroll to the characters that correspond to the second two digits, then press the OK button.

Prompt	Action
S/N Byte 2? 00 00 >00< 00	Enter the third two digits of the fixture serial number. Scroll to the characters that correspond to the third two digits, then press the OK button.
S/N Byte 3? 00 00 00 >00<	Enter the fourth two digits of the fixture serial number. Scroll to the characters that correspond to the fourth two digits, then press the OK button.
Test S/N? Cancel / OK?	Press the OK button to test the serial number of the fixture you are addressing. The fixture will blink three time then come on in standby mode to indicate that you've entered the correct serial number.
S/N Test OK? Cancel / OK?	If the lights are on, press OK to continue. If the lights are off, then you've enter an incorrect serial number. Press cancel to move back and correct your mistake. After correcting and testing the serial number, press the OK button to proceed.
Light Number? 001	Use the thumb wheel to select a light number (001 to 170) for the segment. Press OK to enter the number and proceed.
Program Light #? Cancel / OK?	If you are satisfied with your selection, press OK . The lights turn red while programming then come on in standby mode. NOTE: Standby mode may be hard to detect due to the opacity of the iColor Accent lens, especially in bright ambient lighting.
Test Light #? Cancel / OK?	Press OK to test the light number. A successful test is indicated when the lights blink red, green, blue, then off.

Prompt	Action
Light Test OK? Cancel / OK?	If the lights blinked red, green, blue, then off, press ok to proceed. If lights did not blink, press cancel and begin the addressing process from the beginning.
S/N Byte 0? >00< 00 00 00	After the fixture is addressed, enter the serial number for the next fixture and repeat the steps until all fixtures/segments are addressed.

Using Zapi with iColor Fresco

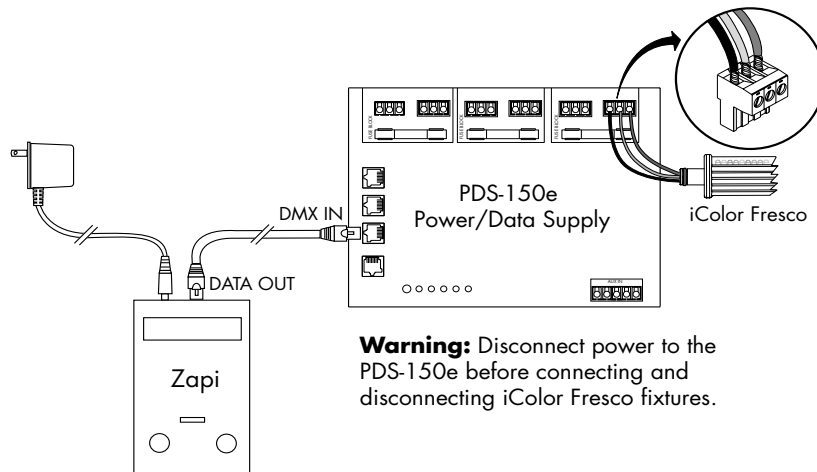
iColor Fresco is available in one-, two-, and four-foot sizes. Each fixture contains one, two, or four light segments, respectively. Each segment is addressed sequentially beginning with light number 1. For example, a four-foot fixture is pre-address with light numbers 1 through 4.

Setting Up iColor Fresco

Warning: Ensure power to the PDS-150e is off before connecting or disconnecting iColor Fresco.

1. Connect an iColor Fresco fixture to the PDS-150e power supply as described in the PDS-150e Installation Guide.
2. Connect one end of a CAT5 data cable with RJ45 connectors to the DMX IN port on the PDS-150e, and the other end to the DATA OUT port on Zapi. See Fig. 8.
3. After connecting iColor Fresco and Zapi to the PDS-150e, connect power to the Zapi and the PDS-150e. You are now ready to begin addressing the connected fixture.

Fig. 8



Addressing iColor Fresco

After powering up Zapi the product titles display on the LCD screen followed by the initial default prompt: **ZAPI MODE: SERIAL NUMBER**. Use the thumb wheel to scroll to **FRESCO**. At this point, follow the prompts detailed below to address each segment of iColor Fresco.

Note: *At any point during the addressing you can return to the previous prompt by pressing the red cancel button.*

Prompt	Action
ZAPI MODE: Fresco	After using the thumb wheel to scroll to ZAPI MODE: FRESCO , press the green OK button to enter the mode and proceed.
Fresco Size? 1 foot	At the FRESCO SIZE? prompt, use the thumb wheel to scroll to the correct size of the product you are addressing, then press the OK button to enter the size and proceed.
Clear Memory? Cancel / OK?	<p>Press the OK button to clear the iColor Fresco memory and prepare the fixture for addressing. You will receive a STATUS CLEAR MEMORY and STATUS RESET LIGHT message.</p> <p>All segments blink red, then each segment turns off in sequential order. When the reset is complete, the fixture goes into standby mode (indicated when all LEDs are on at low intensity.)</p>
Power Cycle Unit then press OK	<p>If the lights are in standby mode, press OK to continue.</p> <p>If the lights are off, power cycle the unit by disconnecting then reconnecting power to the PDS-150e. When the lights turn on, all segments are in standby mode.</p> <p>After power cycling the light, press the OK button to proceed.</p>

Prompt	Action
Seg 1 Light #?	<p>Use the thumb wheel to select a light number (001 to 170) for the segment.</p> <p>Press OK to enter the number and proceed.</p> <p>Repeat this step for each segment in the fixture.</p>
Program Fresco? Cancel / OK?	<p>If you are satisfied with your selections, press OK.</p> <p>Each segment turns red while programming then comes on in standby mode.</p>
Power Cycle Unit then press OK	<p>If the lights are in standby mode, press OK to continue.</p> <p>If the lights are off, power cycle the unit by disconnecting then reconnecting power to the PDS-150e. When the lights turn on, all segments are in standby mode.</p> <p>After power cycling the light, press the OK button to proceed.</p>
Test Fresco? Cancel / OK?	<p>Press OK to test the light number for each segment.</p> <p>A successful test is indicated when the lights blink red, green, blue, then off.</p>
Fresco Size? 1 Foot	<p>After the test is complete, the FRESCO SIZE? 1 FOOT prompt appears and you are ready to address the next fixture/segment.</p> <p>Continue addressing each segment until all segments of each fixture are addressed.</p>

Using Zapi with iColor Cove

iColor Cove is available in six-inch and twelve-inch sizes with each fixture containing one segment. With Zapi you can address iColor Cove individually using the iColor Cove cable or address a sequence of fixtures on a harness connected to the PDS-150e power/data supply. Connecting a multiple sequence of lights to the PDS-150e results in all lights receiving the same light number.

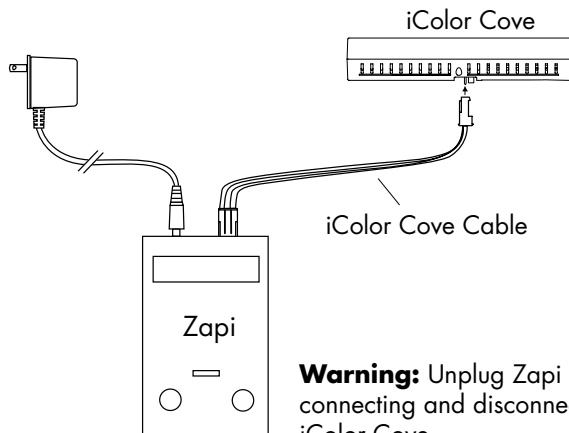
Setting Up iColor Cove

1. Use the iColor Cove cable, provided with Zapi, to connect an iColor Cove fixture to the iColor Cove port on Zapi for a single light set up. See Fig. 9

For a multi-light set up connect iColor Cove to the power/data supply as detailed in the PDS-150e installation guide. Refer to *iColor Cove Multi-Light Set Up* on page 8. When power is applied to the PDS-150e, connected lights come on in standby mode (indicated when all LEDs are on at low intensity.)

2. Connect the Zapi power cable to a power source.

Fig. 9



Warning: Unplug Zapi before connecting and disconnecting iColor Cove.

Addressing iColor Cove

After powering up Zapi the product titles display on the LCD screen followed by the initial default prompt: **ZAPI MODE: SERIAL NUMBER**. Use the thumb wheel to scroll to *All Same DMX*. At this point, follow the prompts, detailed below, to address each segment of iColor Cove.

If your iColor Cove fixture features DIP switches, set all to zero before addressing with Zapi.

Note: At any point during the addressing you can return to the previous prompt by pressing the red cancel button.

Prompt	Action
ZAPI MODE: All Same DMX	After using the thumb wheel to scroll to ZAPI MODE: ALL SAME DMX , press the green OK button to enter the mode and proceed.
Reset/Set DMX? Set DMX Addr	At the SET DMX ADDR prompt, press the OK button to proceed.
Light Number? 001	Scroll to select the light number for the fixture, or sequence of fixtures. Press OK .
Program Light? Cancel / OK?	Press OK to program the lights. The fixture blinks red and then off. When the reset is complete, the fixture goes into standby mode indicated when all LEDs are on at low intensity.
Power Cycle Unit then press OK	If the lights are in standby mode, press OK to continue. If the lights are off, power cycle the unit by disconnecting then reconnecting power to the PDS-150e. When the lights turn on, all segments are in standby mode. After power cycling the light, press the OK button to proceed.

Prompt	Action
Test Unit? Cancel / OK?	Press OK to test the light number for each segment. A successful test is indicated when the lights blink red, green, blue, then off.
Reset/Set DMX? Set DMX Addr	After the test is complete the SET DMX ADDR prompt appears and you are ready to address the next fixture/sequence. Continue addressing until all fixtures are addressed.

Resetting iColor Cove

For iColor Cove fixtures that have DIP switches, once you've addressed them with Zapi, they must be reset in order that they can once again be addressed using the fixture's DIP switches.

Follow the instructions below to reset your iColor Cove fixtures.

Prompt	Action
ZAPI MODE: All Same DMX	Use the thumb wheel to scroll to ZAPI MODE: ALL SAME DMX , press the green OK button to enter the mode and proceed.
Reset/Set DMX? Clear Memory	Scroll to CLEAR MEMORY prompt, then press the OK button to proceed.
Reset DMX Addr? Cancel / OK?	Press OK to clear the memory. Lights flash red then off.

Prompt	Action
Power Cycle Unit then press OK	If the lights are in standby mode, press OK to continue. If the lights are off, power cycle the unit by disconnecting then reconnecting power to the PDS-150e. When the lights turn on, all segments are in standby mode. After power cycling the light, press the OK button to proceed.
Power Cycle Unit then press OK	If the lights are in standby mode, press OK to continue. If the lights are off, power cycle the unit by disconnecting then reconnecting power to the Zapi for single light set up or the PDS-150e for multi-light setup. When the lights turn on, all segments are in standby mode. After power cycling the light, press the OK button to proceed.
Reset/Set DMX? Set DMX Addr	After the test is complete the SET DMX ADDR prompt appears and you are ready to continue clearing the memory of all fixtures.

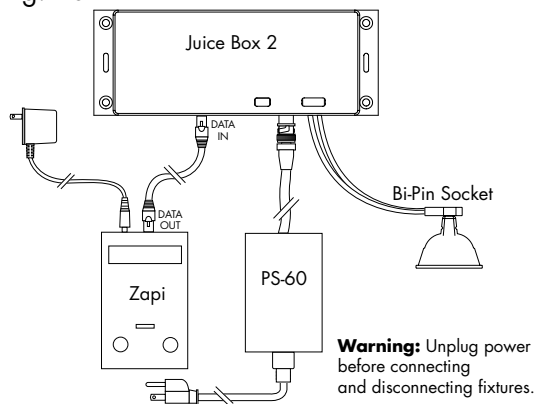
Using Zapi with iColor MR

iColor MR requires a Juice Box 2 and a PS-60 power supply. With Zapi you can address iColor MR individually using Bi-Pin socket attached to the Juice Box or address a sequence of fixtures on a track connected to the Juice Box 2. Connecting a multiple sequence of lights on a track results in all lights receiving the same light number.

Setting Up iColor MR

1. Set all DIP switches to OFF.
2. Use Bi-Pin socket to connect an iColor MR fixture to a Juice Box 2.
3. Connect one end of a CAT5 data cable with RJ45 connectors to the DATA IN port on the Juice Box 2, and the other end to the DATA OUT port on Zapi. See Fig. 10.
4. Attach a PS-60 power supply to the Juice Box 2
5. Plug an iColor MR into the Bi-Pin connector.
6. After connecting the fixture to the Juice Box 2, connect power to the Zapi and the Juice Box 2. The fixture is in standby mode, indicated by lights on at low intensity, and you are now ready to begin addressing the connected fixture

Fig. 10



Addressing iColor MR

After powering up Zapi the product titles display on the LCD screen followed by the initial default prompt: **ZAPI MODE: SERIAL NUMBER**. Use the thumb wheel to scroll to *All Same DMX*. At this point, follow the prompts, detailed below, to address each iColor MR fixture.

If your iColor Cove fixture features DIP switches, set all to zero before addressing with Zapi.

Note: At any point during addressing you can return to the previous prompt by pressing the red cancel button.

Prompt	Action
ZAPI MODE: All Same DMX	After using the thumb wheel to scroll to ZAPI MODE: ALL SAME DMX , press the green OK button to enter the mode and proceed.
Reset/Set DMX? Set DMX Addr	At the SET DMX ADDR prompt, press the OK button to proceed.
Light Number? 001	Scroll to select the light number for the fixture, or sequence of fixtures. Press OK .
Program Light? Cancel / OK?	Press OK to program the lights. The fixture blinks red and then off. When the reset is complete, the fixture goes into standby mode indicated when all LEDs are on at low intensity.
Power Cycle Unit then press OK	If the lights are in standby mode, press OK to continue. If the lights are off, power cycle the unit by disconnecting then reconnecting power to the PDS-150e. When the lights turn on, all segments are in standby mode. After power cycling the light, press the OK button to proceed.

Prompt	Action
Test Unit? Cancel / OK?	Press OK to test the light number for each segment. A successful test is indicated when the lights blink red, green, blue, then off.
Reset/Set DMX? Set DMX Addr	After the test is complete the SET DMX ADDR prompt appears and you are ready to address the next fixture/sequence. Continue addressing until all fixtures are addressed.

Resetting iColor MR

For iColor MR fixtures that have DIP switches, once you've addressed them with Zapi, they must be reset in order that they can once again be addressed using the fixture's DIP switches.

Follow the instructions below to reset your iColor MR fixtures.

Prompt	Action
ZAPI MODE: All Same DMX	Use the thumb wheel to scroll to ZAPI MODE: ALL SAME DMX , press the green OK button to enter the mode and proceed.
Reset/Set DMX? Clear Memory	Scroll to CLEAR MEMORY prompt, then press the OK button to proceed.
Reset DMX Addr? Cancel / OK?	Press OK to clear the memory. Lights flash red then off.

Prompt	Action
Power Cycle Unit then press OK	If the lights are in standby mode, press OK to continue. If the lights are off, power cycle the unit by disconnecting then reconnecting power to the PDS-150e. When the lights turn on, all segments are in standby mode. After power cycling the light, press the OK button to proceed.
Power Cycle Unit then press OK	If the lights are in standby mode, press OK to continue. If the lights are off, power cycle the unit by disconnecting then reconnecting power to the Zapi for single light set up or the PDS-150e for multi-light setup. When the lights turn on, all segments are in standby mode. After power cycling the light, press the OK button to proceed.
Reset/Set DMX? Set DMX Addr	After the test is complete the SET DMX ADDR prompt appears and you are ready to continue clearing the memory of all fixtures.

Using Zapi with C-Splash

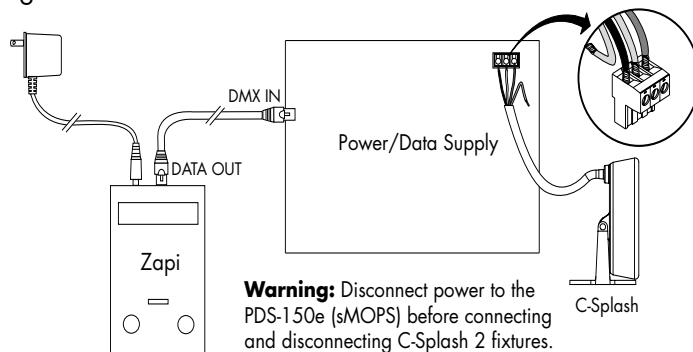
C-Splash offers the options of addressing the fixture with a DMX light number or setting a pre-programmed standalone effect. Zapi is the tool for setting either of these options. For unique light numbers or standalone effects, address lights individually. Connecting multiple fixtures to the power/data supply results in all connected fixtures receiving the same light number or standalone effect.

Setting Up C-Splash

Warning: Ensure power to the power/data supply is off before connecting or disconnecting C-Splash.

1. Connect C-Splash fixture to the power/data supply as described in the power/data supply Installation Guide. Refer to *Setting Up Light Fixtures* on page 5.
2. Connect one end of a CAT5 data cable with RJ45 connectors to the DMX IN port on the power/data supply, and the other end to the DATA OUT port on Zapi. See Fig. 11.
3. After connecting the fixture to the power/data supply, connect power to the Zapi and the power/data supply. The fixture is in standby mode, indicated by lights on at low intensity, and you are now ready to begin addressing the connected fixture.

Fig. 11



Addressing C-Splash

After powering up Zapi the product titles display on the LCD screen followed by the initial default prompt: **ZAPI MODE: SERIAL NUMBER**. Use the thumb wheel to scroll to **ALL SAME DMX**. At this point, follow the prompts, detailed below, to address each C-Splash.

Note: *At any point during addressing you can return to the previous prompt by pressing the red cancel button.*

Prompt	Action
ZAPI MODE: All Same DMX	After using the thumb wheel to scroll to ZAPI MODE: ALL SAME DMX , press the green OK button to enter the mode and proceed.
Reset/Set DMX? Set DMX Addr	At the SET DMX ADDR prompt, press the OK button to proceed.
Light Number? 001	Scroll to select the light number for the fixture, or sequence of fixtures. Press OK .
Program Light? Cancel / OK?	Press OK to program the lights. The fixture blinks red and then off. When the programming is complete, the fixture goes into standby mode indicated when all LEDs are on at low intensity.
Power Cycle Unit then press OK	If the lights are in standby mode, press OK to continue. If the lights are off, power cycle the unit by disconnecting then reconnecting power to the PDS-150e (sMOPS). When the lights turn on, all segments are in standby mode. After power cycling the light, press the OK button to proceed.

Prompt	Action
Test Unit? Cancel / OK?	Press OK to test the light number for each segment. A successful test is indicated when the lights blink red, green, blue, then off.
Reset/Set DMX? Set DMX Addr	After the test is complete the SET DMX ADDR prompt appears and you are ready to address the next fixture/sequence. Continue addressing until all fixtures are addressed.

Setting Standalone Effects on C-Splash

The C-Splash features six built-in effects that can be used in Standalone mode. In this mode, light numbers are not used.

Standalone Effects

- Fixed Color - A static display of one color achieved by blending intensity values of red, green, and blue.
- Color Wash - A smooth transition in hue progressing through the color spectrum: red, orange, yellow, green, blue, indigo, violet.
- Cross Fade - A smooth transition from one color to another and back.
- Random Color - A randomly generated color display at specified intervals.
- Strobe - A series of short, bright flashes that can produce a “stop action” effect.
- Variable Color Strobe - A series of short, bright, multi-colored flashes that can produce a “stop action” effect.

Setting Standalone Effects

From the default prompt: **ZAPI MODE: SERIAL NUMBER**, use the thumb wheel to scroll to **STANDALONE**. At this point, follow the prompts, detailed below, to address each C-Splash

Note: At any point during the addressing you can return to the previous prompt by pressing the red cancel button.

Fixed Color

Prompt	Action
ZAPI MODE: Standalone	After using the thumb wheel to scroll to ZAPI MODE: STANDALONE , press the green OK button to enter the mode and proceed. Use the thumb wheel to select a FIXED COLOR effect then press OK .
Standalone Mode? Fixed Color	Follow the prompts below to select the color for your Fixed Color effect.
Red Value? 0 [Off]	Use the thumb wheel to select the intensity value, 0 to 7. Click OK .
Green Value? 0 [Off]	Use the thumb wheel to select the intensity value, 0 to 7. Click OK .
Blue Value? 0 [Off]	Use the thumb wheel to select the intensity value, 0 to 7. Click OK .
Program SA Mode? Cancel / OK?	Press OK to program the lights. The fixture blinks red and then off. When the programming is complete, the fixture goes Fixed Color mode.

Color Wash

Prompt	Action
ZAPI MODE: Standalone	After using the thumb wheel to scroll to ZAPI MODE: STANDALONE , press the green OK button to enter the mode and proceed. Use the thumb wheel to select a COLOR WASH effect then press OK .
Standalone Mode? Color Wash	Follow the prompts below to select the color for your Color Wash effect.
Wash Dir? Counterclockwise	Use the thumb wheel to select the order that the colors will display, then press OK . Clockwise - ROYGBIV, Counterclockwise - VIBGYOR
Wash Brightness Low	Use the thumb wheel to select the brightness of the effect-Low or High. Press OK .
Wash Saturation Low	Use the thumb wheel to select the saturation of the effect-Low or High. Press OK .
Wash Speed 0.5s	Use the thumb wheel to select a time period for one complete color cycle between 0.5 seconds and 40 seconds. Press OK .
Program SA Mode? Cancel / OK	Press OK to program the lights. The fixture blinks red and then off. When the programming is complete, the fixture goes into Color Wash mode.

Cross Fade

Prompt	Action
ZAPI MODE: Standalone	<p>After using the thumb wheel to scroll to ZAPI MODE: STANDALONE, press the green OK button to enter the mode and proceed.</p> <p>Use the thumb wheel to select a CROSS FADE effect then press OK.</p>
Standalone Mode? Cross Fade	Follow the prompts below to select the color for your Cross Fade effect.
Fade Speed? 5s	<p>Use the thumb wheel to select the amount of time, between 5 seconds and 1 hour, it takes for the effect to fade from the start color to the end color and back.</p> <p>Press OK to continue.</p>
Fade Start? Black	Use the thumb wheel to select the start color, then press OK .
Fade End? Black	Use the thumb wheel to select the end color, then press OK .
Program SA Mode? Cancel / OK	<p>Press OK to program the lights.</p> <p>The fixture blinks red and then off. When the programming is complete, the fixture goes into Cross Fade mode.</p>

Random Color

Prompt	Action
ZAPI MODE: Standalone	After using the thumb wheel to scroll to ZAPI MODE: STANDALONE , press the green OK button to enter the mode and proceed. Use the thumb wheel to select a RANDOM COLOR effect then press OK .
Standalone Mode? Random Color	Follow the prompts below to select the color for your Random Color effect.
Random Start? 1	Use the thumb wheel to select a start color number. Press OK . This feature is used to synchronize multiple lights with matching Random Color shows.
Random Saturation Low	With the thumb wheel, select Low or High to indicate the level of color saturation you want, then press OK .
Random Speed? 0.05s	Use the thumb wheel to select a time increment between 0.05 seconds and 3 minutes, to indicate the length of time that you want each color to display. Press OK .
Program SA Mode? Cancel / OK	Press OK to program the lights. The fixture blinks red and then off. When the programming is complete, the fixture goes into Random Color mode.

Strobe

Prompt	Action
ZAPI MODE: Standalone	After using the thumb wheel to scroll to ZAPI MODE: STANDALONE , press the green OK button to enter the mode and proceed. Use the thumb wheel to select a STROBE effect then press OK .
Standalone Mode? Strobe	Follow the prompts below to select the color for your Strobe effect.
Strobe Rate? 20/s	Use the thumb wheel to select the number of times per second, between 20 and 2, that you want the light to flash. Press OK .
Strobe Color? Black	Use the thumb wheel to select the strobe color. Press OK .
Program SA Mode? Cancel / OK	Press OK to program the lights. The fixture blinks red and then off. When the programming is complete, the fixture goes into Strobe mode.

Variable Color Strobe

Prompt	Action
ZAPI MODE: Standalone	After using the thumb wheel to scroll to ZAPI MODE: STANDALONE , press the green OK button to enter the mode and proceed. Use the thumb wheel to select a VARIABLE COLOR STROBE effect then press OK .
Standalone Mode? Var Color Strobe	Follow the prompts below to select the color for your Var Color Strobe effect.
Var Strobe Rate? 20/s	Use the thumb wheel to select the number of times per second, between 20 and 2, that you want the light to flash. Press OK .
Var Strobe Dir? Counterclockwise	Select the order that the colors will display, then press OK . Clockwise - ROYGBIV, Counterclockwise - VIBGYOR
Var Strobe Speed	Select the rate of speed, between 0.07% and 49.9%, that you want the colors to advance through the spectrum for each flash. Press OK .
Program SA Mode? Cancel / OK	Press OK to program the lights. The fixture blinks red and then off. When the programming is complete, the fixture goes into Var Color Strobe mode.

Zapi DMX Table

Light Number	DMX Channels	Light Number	DMX Channels	Light Number	DMX Channels
1	1, 2, 3	23	67, 68, 69	45	133, 134, 135
2	4, 5, 6	24	70, 71, 72	46	136, 137, 138
3	7, 8, 9	25	73, 74, 75	47	139, 140, 141
4	10, 11, 12	26	76, 77, 78	48	142, 143, 144
5	13, 14, 15	27	79, 80, 81	49	145, 146, 147
6	16, 17, 18	28	82, 83, 84	50	148, 149, 150
7	19, 20, 21	29	85, 86, 87	51	151, 152, 153
8	22, 23, 24	30	88, 89, 90	52	154, 155, 156
9	25, 26, 27	31	91, 92, 93	53	157, 158, 159
10	28, 29, 30	32	94, 95, 96	54	160, 161, 162
11	31, 32, 33	33	97, 98, 99	55	163, 164, 165
12	34, 35, 36	34	100, 101, 102	56	166, 167, 168
13	37, 38, 39	35	103, 104, 105	57	169, 170, 171
14	40, 41, 42	36	106, 107, 108	58	172, 173, 174
15	43, 44, 55	37	109, 110, 111	59	175, 176, 177
16	46, 47, 48	38	112, 113, 114	60	178, 179, 180
17	49, 50, 51	39	115, 116, 117	61	181, 182, 183
18	52, 53, 54	40	118, 119, 220	62	184, 185, 186
19	55, 56, 57	41	221, 222, 223	63	187, 188, 189
20	58, 59, 60	42	224, 225, 226	64	190, 191, 192
21	61, 62, 63	43	227, 228, 229	65	193, 194, 195
22	64, 65, 66	44	230, 231, 232	66	196, 197, 198

Zapi DMX Table (continued)

Light Number	DMX Channels	Light Number	DMX Channels	Light Number	DMX Channels
67	199, 200, 201	89	265, 266, 267	111	331, 332, 333
68	202, 203, 204	90	268, 269, 270	112	334, 335, 336
69	205, 206, 207	91	271, 272, 273	113	337, 338, 339
70	208, 209, 210	92	274, 275, 276	114	340, 341, 342
71	211, 212, 213	93	277, 278, 279	115	343, 344, 345
72	214, 215, 216	94	280, 281, 282	116	346, 347, 348
73	217, 218, 219	95	283, 284, 285	117	349, 350, 351
74	220, 221, 222	96	286, 287, 288	118	352, 353, 354
75	223, 224, 225	97	289, 290, 291	119	355, 356, 357
76	226, 227, 228	98	292, 293, 294	120	358, 359, 360
77	229, 230, 231	99	295, 296, 297	121	361, 362, 363
78	232, 233, 234	100	298, 299, 300	122	364, 365, 366
79	235, 236, 237	101	301, 302, 303	123	367, 368, 369
80	238, 239, 240	102	304, 305, 306	124	370, 371, 372
81	241, 242, 243	103	307, 308, 309	125	373, 374, 375
82	244, 245, 246	104	310, 311, 312	126	376, 377, 378
83	247, 248, 249	105	313, 314, 315	127	379, 380, 381
84	250, 251, 252	106	316, 317, 318	128	382, 383, 384
85	253, 254, 255	107	319, 320, 321	129	385, 386, 387
86	256, 257, 258	108	322, 323, 324	130	388, 389, 390
87	259, 260, 261	109	325, 326, 327	131	391, 392, 393
88	262, 263, 264	110	328, 329, 330	132	394, 395, 396

Zapi DMX Table (continued)

Light Number	DMX Channels	Light Number	DMX Channels	Light Number	DMX Channels
133	397, 398, 399	146	436, 437, 438	159	475, 476, 477
134	400, 401, 402	147	439, 440, 441	160	478, 479, 480
135	403, 404, 405	148	442, 443, 444	161	481, 482, 483
136	406, 407, 408	149	445, 446, 447	162	484, 485, 486
137	409, 410, 411	150	448, 449, 450	163	487, 488, 489
138	412, 413, 414	151	451, 452, 453	164	490, 491, 492
139	415, 416, 417	152	454, 455, 456	165	493, 494, 495
140	418, 419, 420	153	457, 458, 459	166	496, 497, 498
141	421, 422, 423	154	460, 461, 462	167	499, 500, 501
142	424, 425, 426	155	463, 464, 465	168	502, 503, 504
143	427, 428, 429	156	466, 467, 468	169	505, 506, 507
144	430, 431, 432	157	469, 470, 471	170	508, 509, 510
145	433, 434, 435	158	472, 473, 474		

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