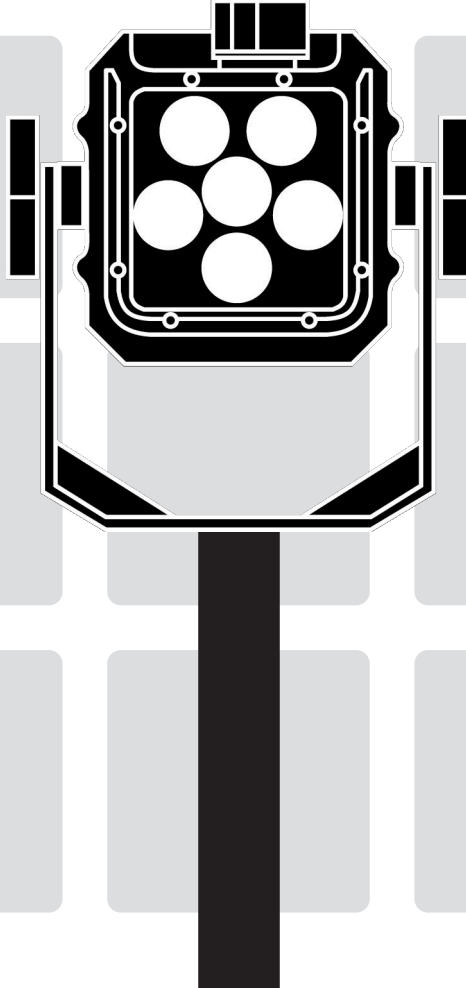




NILA



**ZAILA BI-COLOR  
USER GUIDE**



Nila light fixtures are intended for indoor use only (unless clearly specified for outdoor use).

Nila light fixtures should not be used if the ambient temperature is over 50° C (120°F).



Do not use Nila light fixtures in wet conditions unless clearly specified for all-weather use. A shock hazard may exist if a fixture is placed directly in water.



Nila light fixtures are not suitable for direct mounting on normally flammable surfaces (suitable only for mounting on non-combustible surfaces).



When mounting a Nila light fixture for use, make sure the power cable is not stressed or kinked. A shock hazard may exist if the power cable is being stressed due to the position of the fixture.



Only connect Nila light fixtures to grounded power supplies. Nila lights can only be attached to AC power supplies of 90 to 240 volts AC, 50 to 60 hertz (unless specifically noted as DC compatible).



Nila products conform to all applicable CE directives.



Nila products comply with North American safety standards.

**RoHS**

Nila products comply with the Restriction of Hazardous Substances Directive.

This user guide is published by Nila, Inc. without any warranty. Improvements and changes to this user guide necessitated by typographical errors, inaccuracies of current information, or improvements to programs and/or equipment may be made by Nila, Inc. at any time and without notice. Such changes will, however, be incorporated into new editions of this user guide. All rights reserved.

Zaila Bi-Color user guide updated 8-1-19

Patents Pending

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Thank you for purchasing a Nila LED light fixture. You're now a member of an elite group of savvy lighting professionals who are ushering in a new age of lighting possibilities. Take a moment to read this manual and familiarize yourself with the operation of your new light fixture. With a little care, your Nila light fixture should give you many years of exceptional service.

## LIMITED LIFETIME WARRANTY

Nila, Inc. ("Nila") guarantees its light fixtures against defects in workmanship for the lifetime of the product. Nila will either repair or replace any defective product, at our sole discretion. To the extent permitted by law, this shall be the sole and exclusive remedy of the purchaser. Nila reserves the right to determine whether the equipment manufactured by Nila is defective. This warranty does not cover accessories. All warranty claims of any nature are barred if the product has been altered, damaged or in any way physically changed, or subjected to abuse, misuse, negligence or accident. Damage due to normal wear and tear is not covered by the warranty. Nila disclaims any liability for damage to products, adapters, other property, or personal injury resulting in whole or in part, from improper installation or use of its products. In no event shall Nila be liable for any indirect, punitive, incidental or consequential damages, regardless of whether a claim for such damages is based on warranty, contract, negligence or otherwise, nor shall Nila's liability to the purchaser for damages exceed the purchase price of the product in respect of which damages are claimed. Any warranty claims shall be made by the purchaser as soon as practicable. The purchaser must obtain a Return Merchandise Authorization (RMA) number from Nila prior to returning any product, and is responsible for paying for all warranty freight costs. To make a warranty claim, the original purchaser must contact Nila at [support@nila.tv](mailto:support@nila.tv) or through the online form at <http://nila.com/service> to obtain their RMA. Some products may be field repairable. You must contact Nila before returning any products. If Nila determines that any returned product is not defective, within the terms of this warranty, the purchaser shall pay Nila all costs of handling, return freight and repairs at Nila's prevailing rates. All warranty shipments must be pre-paid and insured. Nila cannot be liable for lost in-bound packages.

**<http://nila.com/register>**

Please register your new Nila fixture to protect your investment:

# POWER OPTIONS

## AC OPERATION

All Nila light fixtures have universal switching power supplies that work at 90-240V AC input. Make sure that the main power switch is in the OFF position before attaching or removing the power cord from the fixture.

An AC power cord is provided for each Nila fixture. A variety of plug types is available. Your Nila light fixture will work anywhere in the world as long as you have the proper plug type for the region. Regardless of plug type, a grounded power source is always necessary for safe operation.

Nila fixtures are not designed to be used with external dimmers.

## DC OPERATION

Nila's revolutionary **Direct DC™** option makes it possible to connect your Nila light fixtures directly to a DC source. **Direct DC™** makes powering your lights in the field a snap. Simply connect an XLR output from your battery to the rear of the fixture and switch the power switch to the on position.

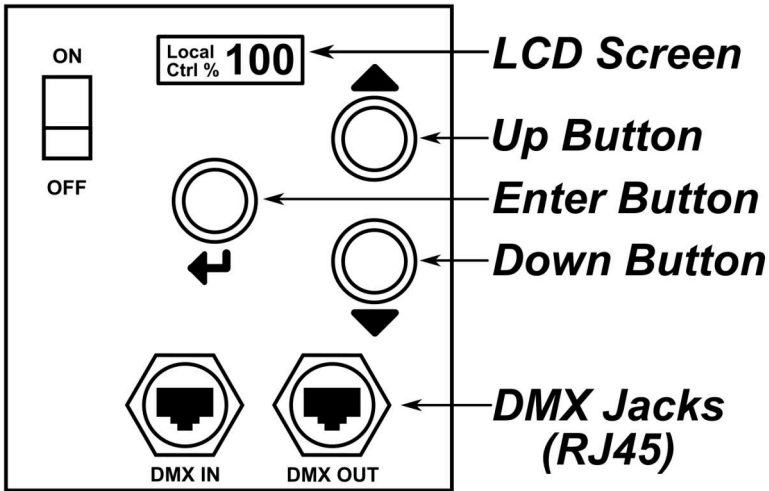
For the Zaila, an optional V-mount or gold-mount battery plate is available. It's designed to be conveniently attached to the fixture's yoke.

The Zaila accepts 10-18 volt DC input via the XLR connector on the rear panel of the fixture. If your battery's voltage falls outside of the recommended range, the fixture will not function. We recommend that you use batteries rated at 6 amps or higher. If you use a battery whose current rating is lower than 6 amps, you risk damaging the battery. If a battery is connected with its polarity reversed, the fixture will not function. Built-in polarity protection will protect your Nila light fixture from damage.

DC extension cables should not exceed 10' (3m) in length.

Zaila XLR Pins:                      1 & 2: Negative DC V In  
   3 & 4: Positive DC V In

# CONTROLS



**NOTE:** There are multiple versions of the Nila Net control system. The mode selection and networking illustrations presented here are for the version that came with your fixture. Other Nila fixtures may operate differently.

# SOFTWARE CONTROLS

Press the ENTER button to bring up the next control screen. Each press of the button advances to the next screen. The screens are:

1. Local Control Mode
2. Color Temperature
3. Red Boost
4. DMX Channel Select
5. DMX Control Mode

The fixture will be in local control mode when any of the first three screens are displayed and in DMX control mode when screens four or five are displayed.



On power up, the LCD screen will display the startup screen with the software version number followed by the operating mode that the fixture was in when last switched off.

## 1. LOCAL CONTROL MODE



**Local Control Mode** allows for local dimming control of each individual fixture. To change the intensity of a fixture's light output, press the **Up or Down Arrows** on the rear of the fixture. The LCD screen will display the intensity of the output from 0 to 100%.

## 2. COLOR TEMPERATURE SCREEN



Nila's proprietary **Precision Colortune™** system allows for precise color temperature settings on bi-color fixtures.

When the **Color Temp Screen** is accessed, the display will show the color temperature of the light that the fixture is currently producing. This color temperature value is only applied when in Local Control Mode.

To change the color temperature of the light, press the **Up or Down Arrows** to increase or decrease the color temperature in 200° kelvin increments.

Please note that these color temperature values are based on the fixture's light output with the **Red Boost** set to a value of zero. (see page 6 for more information on the **Red Boost** circuit).

For those unfamiliar with color temperature values, 5600°K is the daylight-balanced photographic film standard. It is the value of vertical daylight and most photographic flashes.

3200°K is the standard value of tungsten light (light generated by the burning of a tungsten filament) and it is considerably "warmer" than the blue-hued daylight color range.

Your Nila fixture is capable of reproducing light between the values of 2600°K and 6400°K for a range of colors from very warm (amber) to very cool (blue). Experiment with the **Color Temp** setting to find the best color for your particular application and camera.

### 3. RED BOOST SCREEN



The **Red Boost** screen allows for additional red light to be added to the color temperature that has been set on the **Color Temp** screen.

The amount of **Red Boost** is variable from 0 to 500 in increments of 50. At a setting of zero, the circuit is turned off completely. At a setting of 500, the circuit will add a visible red hue to the light.

Many users find that lower **Red Boost** values can help with the reproduction of skin tones when utilizing certain cameras even when the boost is not visible to the naked eye. Every chip set is different, so experiment with your camera in order to determine the optimum setting for your aesthetic preference.

### 4. DMX CHANNEL SELECT SCREEN



DMX Mode allows for remote dimming control of individual bi-color fixtures. This mode requires input from a DMX control system with an RJ45 adapter.

When there is a valid DMX signal present, the LCD screen will display the fixture's current primary control channel and output level. If there is no DMX signal present, the LCD screen will read "No Signal".





Use the **Up and Down Arrows** to change the MASTER DMX channel. Once the channel is set, the display will switch to the DMX CONTROL MODE screen. The channel is now written to memory and will not change even if the light fixture is powered off.

## 5. DMX CONTROL MODE

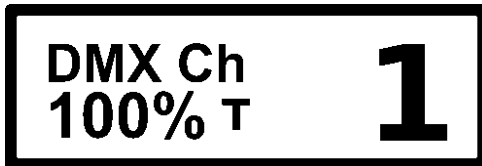
The MASTER DMX channel controls the light level.

Master DMX Channel +1 controls the Color Temperature.

Master DMX Channel +2 controls the Red Boost level.

For example, if the Master channel is set to DMX channel 1, the color control will be on DMX channel 2 and the red boost control will be on DMX channel 3.

See the charts on pages 8 & 9 to determine color settings.



When in DMX Mode, the last light in any chain will display a "T" on its display. This indicates that the control signal is terminated at that light fixture. If more than one light fixture in a chain displays a "T", then there is a faulty cable or fixture.

The master DMX channel +1 controls the Color Temperature corresponding to the values on the chart below.

| COLOR TEMP | DMX VALUE |
|------------|-----------|
| 2600°K     | 0-12      |
| 2800°K     | 13-25     |
| 3000°K     | 26-38     |
| 3200°K     | 39-50     |
| 3400°K     | 51-63     |
| 3600°K     | 64-76     |
| 3800°K     | 77-89     |
| 4000°K     | 90-101    |
| 4200°K     | 102-114   |
| 4400°K     | 115-127   |
| 4600°K     | 128-140   |
| 4800°K     | 141-152   |
| 5000°K     | 153-165   |
| 5200°K     | 166-178   |
| 5400°K     | 179-191   |
| 5600°K     | 192-203   |
| 5800°K     | 204-216   |
| 6000°K     | 217-229   |
| 6200°K     | 230-242   |
| 6400°K°K   | 243-255   |

The master DMX channel +2 controls the Red Boost level corresponding to the values on the chart below.

| RED BOOST AMOUNT | DMX VALUE |
|------------------|-----------|
| 0                | 0         |
| 20               | 10        |
| 40               | 20        |
| 60               | 30        |
| 80               | 40        |
| 100              | 50        |
| 120              | 60        |
| 140              | 70        |
| 160              | 80        |
| 180              | 90        |
| 200              | 100       |
| 220              | 110       |
| 240              | 120       |
| 260              | 130       |
| 280              | 140       |
| 300              | 150       |
| 320              | 160       |
| 340              | 170       |
| 360              | 180       |
| 380              | 190       |
| 400              | 200       |
| 420              | 210       |
| 440              | 220       |
| 460              | 230       |
| 480              | 240       |
| 500              | 250       |

# DMX CONFIGURATIONS

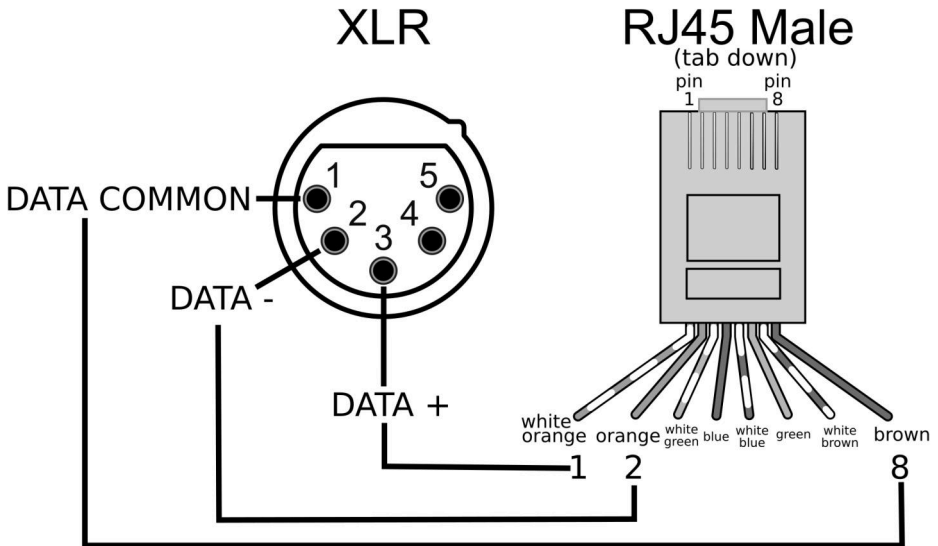
All of the examples presented here require the controlled fixtures to be in DMX Control Mode. Each fixture may be set to DMX Mode manually by pressing the **Enter Button** until the DMX Channel Select screen appears on the fixture's display.



Nila Part # ND16CBC-4

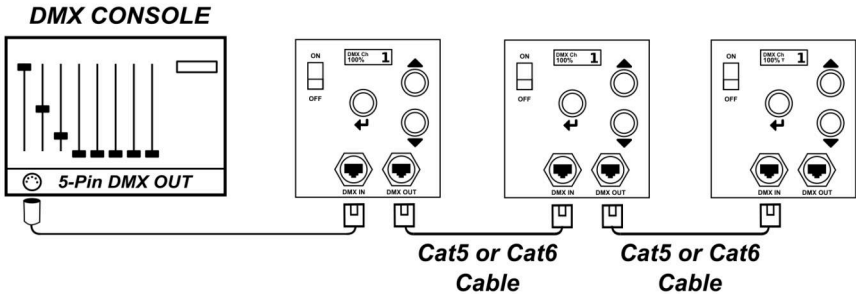
## DMX 5-PIN XLR to RJ45 CONFIGURATION

5-pin DMX to RJ45 adapter cables are available from your Nila dealer. You may also make your own adapters.



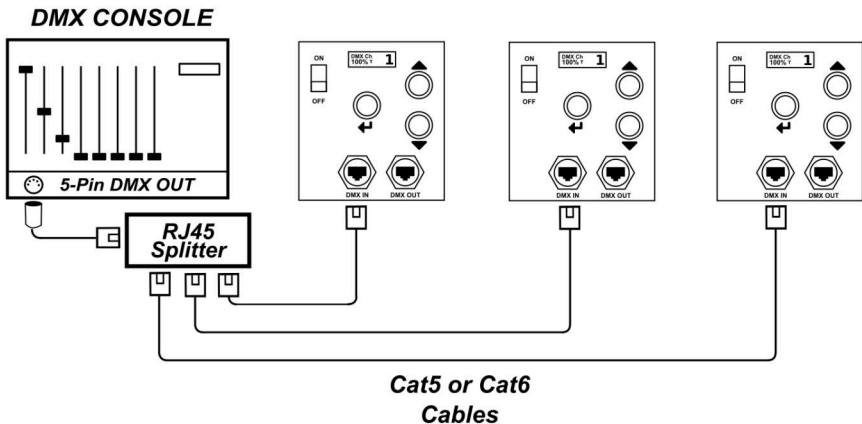
## USING A DMX CONTROL CONSOLE (in series)

Nila light fixtures can be controlled by any standard DMX control console with the use of a 5-pin XLR to RJ45 adapter.



## USING A DMX CONTROL CONSOLE (in parallel)

Connect the 5-pin XLR output of the DMX console to a non-powered RJ45 splitter using a DMX to RJ45 adapter cable. Use the splitter to distribute the control signal to each fixture. Each fixture can be assigned its own channel or be controlled together on the same channel. When using this arrangement, every fixture will display a "T" on its screen indicating that the control signal terminates at each fixture.

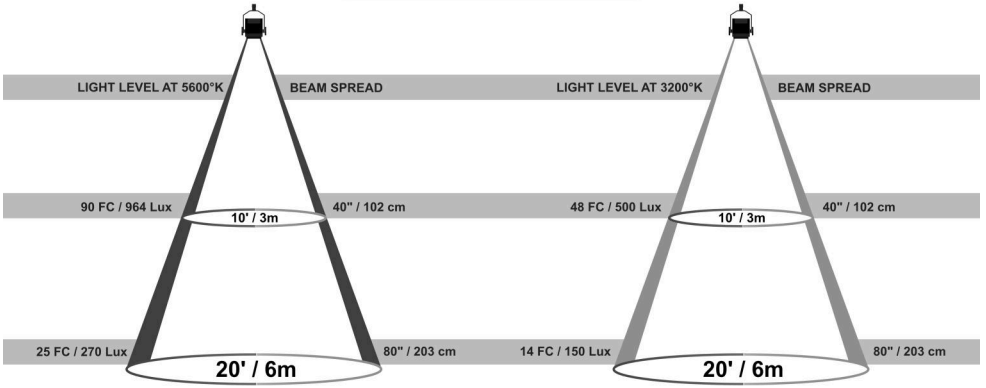


# SPECIFICATIONS

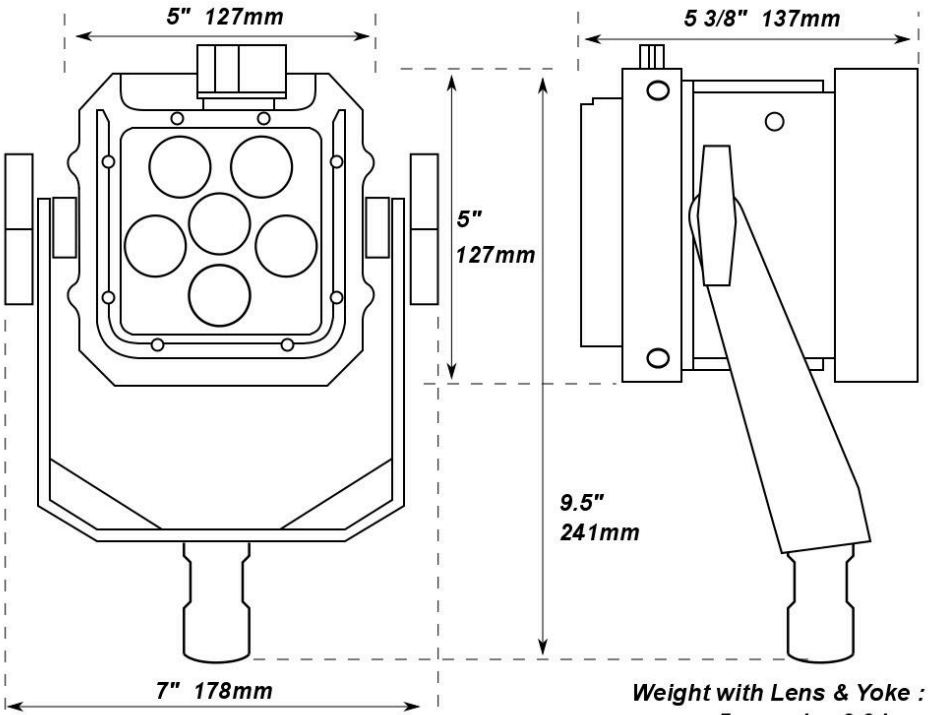


- input voltage: 100-240V AC, 10-18V DC
- input current: 0.4A at 100V AC
- system watts: 45
- dim range: 0-100% (onboard dimmer)
- compatible shutter speeds: all (flicker-free at any frame rate at 100% output, and up to 5000 fps when dimmed)
- light source: high-efficiency daylight, tungsten, and red LEDs
- LED rated lifespan: 20,000+ hours
- color: 2600°K to 6400°K variable in 200° increments with red boost control
- UV output: none
- color spectrum: continuous
- CRI: 96 (5600°K), 98 (3200°K)
- TLCI: 92 (5600°K), 96 (3200°K)
- beam angle: 10° to 80°
- focus method: holographic film lenses
- control network: DMX512 with RDM
- control connections: RJ45 (5-pin XLR adapter optional)
- built-in Chimera mount
- weight: 5 lbs. (2.3 kg)
- certifications: ETL & CE
- operating temperature: -22°F to +122°F (-30°C to +50°C)
- housing construction: aluminum
- mounting: yoke (w/junior pin and baby receiver)
- operating position: any
- cooling: passive (no fans)
- power cable: 10' IEC (to external power supply)
- power connector: NEMA 5-15P
- country of origin: USA
- warranty period: limited lifetime (see page 1 for specifics)

ZAILA BI-COLOR - No Lens - 20° Narrow



TOTAL OUTPUT - 3500 LUMENS





**LIGHT  
SMARTER**