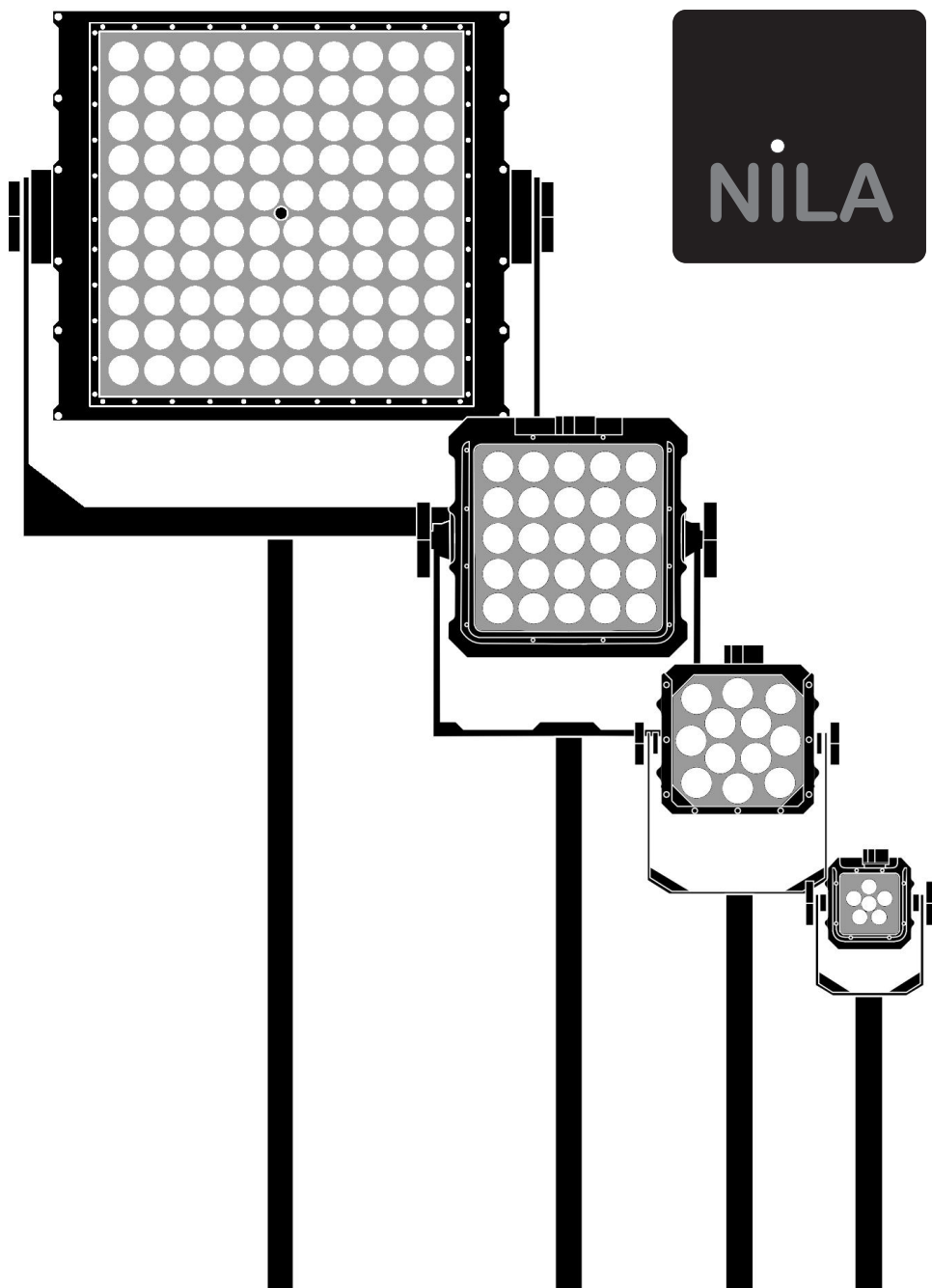




USER GUIDE



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.

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Patents Pending

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ENVIRONMENTALLY SUSTAINABLE LED LIGHTING

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.

STATEMENT OF WARRANTY

Please register your new Nila fixture to protect your investment:

<http://nila.tv/register>

All Nila products are covered by a warranty against manufacturing defects from the date of purchase by the original owner for two (2) years. Under this guarantee Nila Inc.'s liability is limited to repair or replacement of the product with the same or an equivalent product and does not include installation costs, removal costs, or transportation costs, nor loss or damage of any kind whatsoever, whether incidental, consequential or otherwise. Nila Inc. reserves the right to determine whether the equipment manufactured by Nila Inc. is defective. Damage due to normal wear and tear, incorrect installation, misuse, abuse, accident, or any cause other than a manufacturing defect 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. Commodities not manufactured by Nila Inc. are subject to the warranty or guarantee set forth by the manufacturer, and then only to the extent Nila Inc. is able to enforce the warranty or guarantee.

1 - QUICK START GUIDE

- Mount your Nila light fixture in such a way that it receives adequate ventilation. Do not mount it to a flammable surface.
- An AC power cord is supplied with each fixture. A variety of plug styles is available.
- Some Nila fixtures can be powered by batteries. Please see section 2.2 for more information on DC operation.
- Verify that the power switch on the unit is in the "off" position, then locate an AC power outlet that provides grounded AC power between 90 and 240 volts and plug the unit in.
- Switch the power switch to the "ON" position.
- The LCD screen on the rear of the unit will indicate the control mode setting. Verify that the light is set to "Master Mode". See section 3.2 for more information on how to set the control mode.
- The light will fade up to the level at which it was last set. The output level is indicated by a percentage readout on the LCD screen on the rear of the fixture.
- You may now change the output level manually by using the up and down arrows on the rear of the fixture.
- You may also connect a Nila Net or DMX network to control your fixture remotely. See section 3 for more details on remote operation.
- You may use any of the optional lenses to adjust the focus of your light fixture. See section 4 for more details on lenses.
- You may use any of the optional Nila hard gels to adjust the color temperature of your light fixture. See section 4 for more details on gels.
- Depending on your fixture and optional accessories, you may attach barn doors or a Chimera soft box directly to your fixture. See the specifications for your particular fixture for more details on optional accessories.

2 - POWER OPTIONS

2.1 - 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.

2.2 - 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 the battery to the rear of your fixture and run the light as usual.

For the Varsa and 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 Varsa and Zaila accept 10-18 volt DC input and the Boxer accepts 20-30 volt DC. If your battery's voltage falls outside 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 and built in polarity protection will protect your Nila light fixture from damage.

Both AC and DC power can be connected at the same time without risk of failure. If both are connected, the fixture will continue to draw power from the DC input until the battery's voltage drops below nominal voltage. You can hot swap AC and DC cables with the light powered on and you will not see any change in the light output.

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

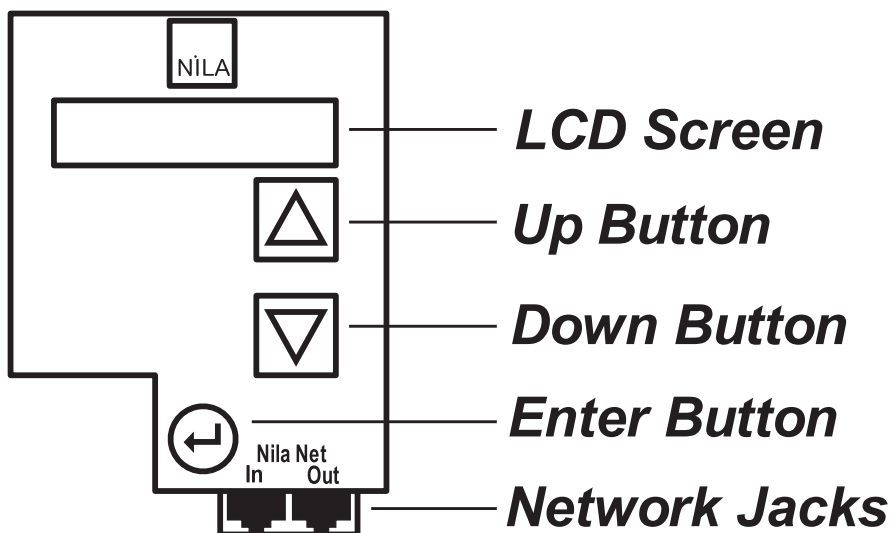
Zaila & Varsa XLR Pins: 1 & 2: Negative DC V In
 3 & 4: Positive DC V In

Boxer XLR Pins: 1: Negative DC V In
 2: Positive DC V In
 3: Not Used

3 - CONTROLS

3.1 - PHYSICAL CONTROLS

All standard Nila light fixtures use the same control pad. Weatherproof fixtures have a similar set of controls but they are arranged slightly differently to accomodate weather resistant buttons.



3.2 - CONTROL MODES

There are two different operating modes for controlling Nila light fixtures. On power up, the LCD screen on the rear of the fixture will display the startup screen followed by the software version. Once startup is complete, the display will indicate both the output level (0 to 100%) and the operating mode that the fixture was in when last switched off.

The two operating modes are Master Mode and Nila Net Mode. The light fixture will arrive from the factory in Master Mode. It will automatically switch to Nila Net mode when a cat6 control cable is inserted and a Nila Net signal is present. It will remain in Nila Net mode until it is manually reset to Master Mode.

To force a Nila light fixture into Nila Net mode when there is no Nila Net signal present, turn the unit off and hold down the **Down Arrow** while turning the unit back on. Continue to hold the **Down Arrow** until startup is complete. The lower half of the LCD screen should now indicate "Nila Net Mode".

To reset a Nila light fixture to Master Mode, turn the unit off and hold down the **Up Arrow** while turning it back on. Continue to hold the **Up Arrow** until startup is complete. The lower half of the screen should now indicate "Master Mode".

3.3 - MASTER MODE

Master 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%.

A Nila fixture in Master Mode may also be used to control other Nila fixtures. Simply connect a cat6 cable from the **Nila Net Out** jack on the rear of the Master fixture to the **Nila Net In** jack on any other Nila fixture. Slave fixtures will automatically switch to Nila Net Mode and will mirror the intensity setting of the Master Mode unit.

No two fixtures in a chain may be in Master Mode at the same time.

3.4 - NILA NET MODE

Nila Net Mode allows for remote dimming control of individual fixtures. This mode requires input from a Nila fixture in Master Mode or a DMX control system with a Nila Net adapter.

Nila Net allows for each fixture to be addressed to a single control channel between 1 and 512. These addresses correspond to those of a DMX control device. When there is a valid Nila Net signal present, the LCD screen will display the fixture's current channel setting and output level. If there is no Nila Net signal present, the LCD screen will read "Nila Net signal not present".

To change the control address of any Nila light fixture, press the **Enter Button** to display the current address. An asterisk will be visible above the first digit in the address. Use the **Up and Down Arrows** to change that digit, then press the **Enter Button** again to move the asterisk to the next digit. Cycle through the digits to set a channel number between 1 and 512. Once the channel is set, the display will return to the mode screen. The channel is now written to memory and will not change even if the light fixture is powered off.

If the screen reads "XXX is not a Legal Value", you've chosen an invalid address. All addresses must be between 1 and 512.

When in Nila Net 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.

LEVEL	20.0%
NilaNet Ch 003	T

"T" Indicates DMX Termination Point

3.5 - NETWORKING EXAMPLES

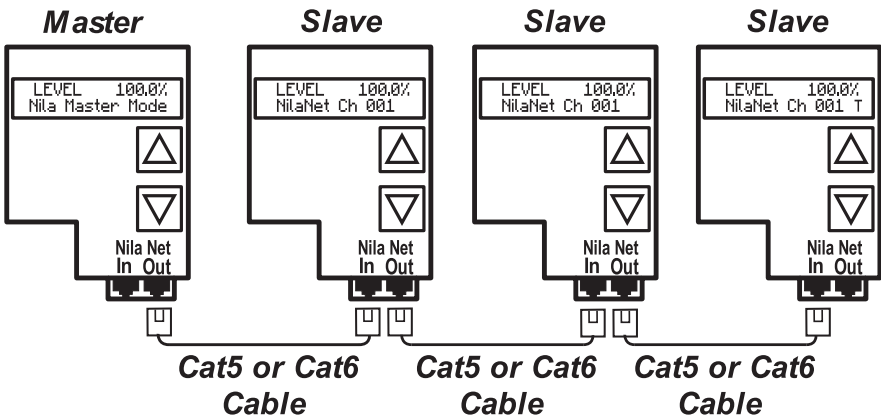
All of the examples presented here require all Nila light fixtures to be in Nila Net mode. When connected to a Nila Net controller or DMX-to-Nila Net adapter cable, the light fixtures will switch to Nila Net Mode automatically. The fixtures may also be set to Nila Net Mode manually.

To force a Nila light fixture into Nila Net mode when there is no Nila Net signal present, turn the unit off and hold down the **Down Arrow** while turning the unit back on. Continue to hold the **Down Arrow** until startup is complete. The lower half of the LCD screen should now indicate "Nila Net Mode".

To reset a Nila light fixture to Master Mode, turn the unit off and hold down the **Up Arrow** while turning it back on. Continue to hold the **Up Arrow** until startup is complete. The lower half of the screen should now indicate "Master Mode".

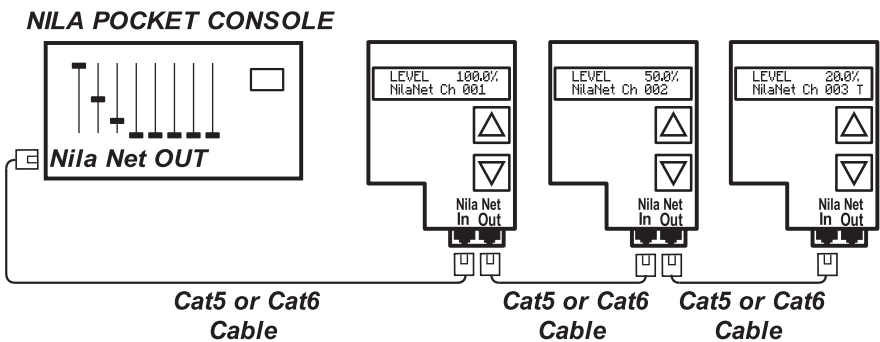
3.5.1 - USING A MASTER FIXTURE

The simplest control network uses a Nila light fixture in Master Mode to control others in Nila Net Mode. Simply connect a cat6 data cable as shown and make sure all fixtures are on the same control channel. The **Up and Down Arrows** on the back of the fixture that is in Master Mode will now control the level of all of the lights in the chain.



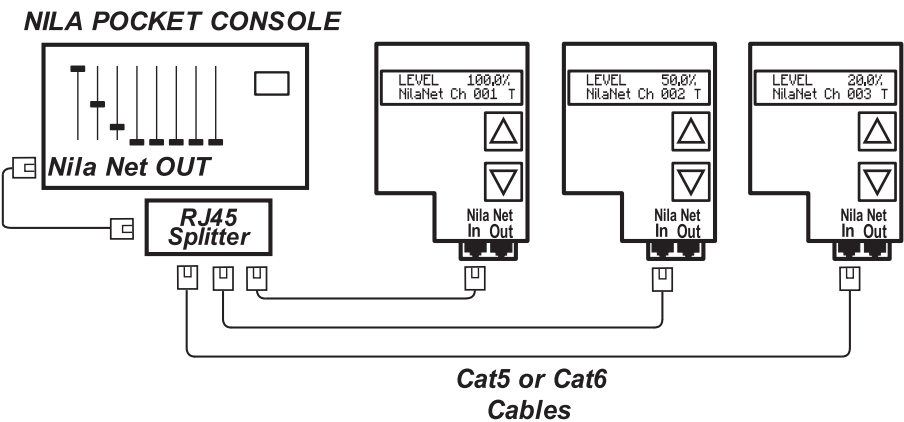
3.5.2 - USING A NILA POCKET CONSOLE™ (in series)

Nila's Pocket Console™ is equipped with a **Nila Net Out** jack. Simply connect a cat6 data cable as shown and daisy chain additional cables from fixture to fixture. Each fixture can be assigned its own channel or controlled together on the same channel. For more detailed information on the operation of the Pocket Console™, please refer to the Pocket Console™ manual.



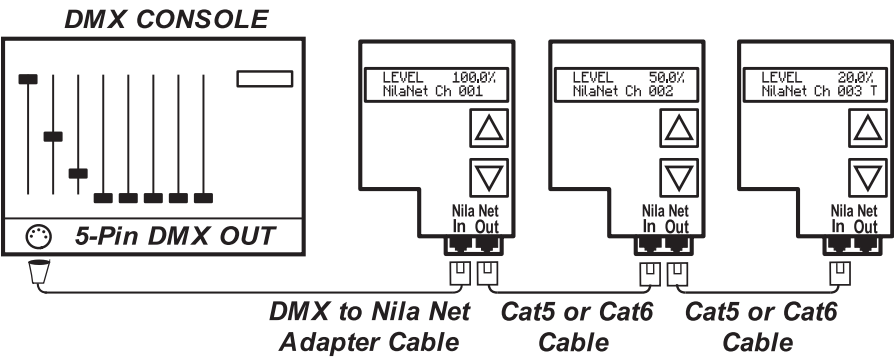
3.5.3 - USING A NILA POCKET CONSOLE™ (in parallel)

Nila's Pocket Console™ is equipped with a **Nila Net Out** jack. Simply connect a cat6 data cable as shown and use a non-powered RJ45 splitter box to distribute the control signal to each fixture. Each fixture can be assigned its own channel or controlled together on the same channel. When using this sort of arrangement, every fixture will display a "T" on its screen, indicating that the control signal terminates at each fixture.



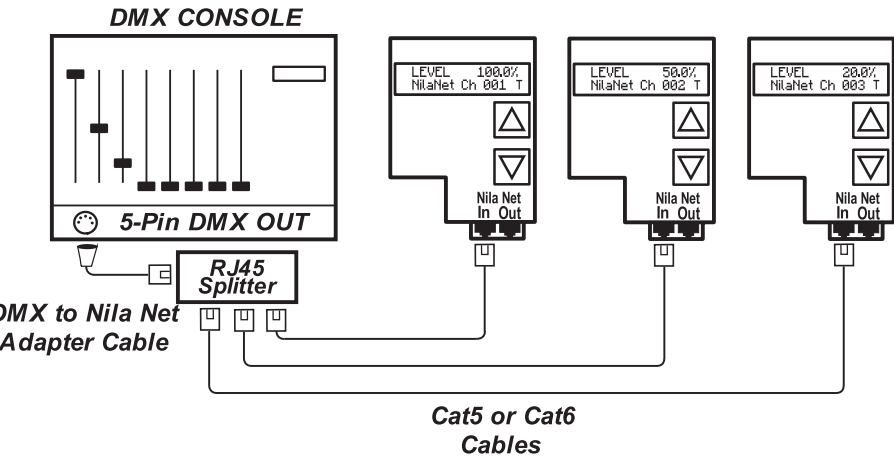
3.5.4 - USING A STANDARD DMX CONSOLE (in series)

Nila light fixtures can be controlled by any standard DMX control console. The DMX standard 5-pin XLR output must simply be adapted to the Nila Net standard RJ45 connector. Nila offers a 5-pin DMX to RJ45 adapter cable.



3.5.5 - USING A STANDARD DMX CONSOLE (in parallel)

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



4 - LENSES & GELS

The output of Nila light fixtures can be manipulated through the use of Nila's holographic film lenses and hard gels. Nila fixtures are designed to accommodate one or both media in the slots on the fixtures' faces.

4.1 - HOLOGRAPHIC FILM LENSES

Nila holographic film lenses are available in 10°, 20°, 40°, 60°, 80°, and 10°x60° elliptical beam angles. The lenses bend the light to a precise beam angle. The elliptical lens can be used to spread the light either vertically or horizontally depending on its orientation in the lens holder.

Lenses must be maintained in order to provide consistent performance. Always orient the lens so that the glossy side is facing out, away from the LEDs. You may clean the lenses with water or a non-abrasive window cleaner and a soft cloth. If the matte side of a lens gets wet it may be less effective. Allow it to dry completely before use. Place the lenses in the Nila lens pouch to protect them between uses.

4.2 - HARD GELS

Nila hard gels can be used to change the color temperature of your light. Both CTO (color temperature orange) and CTB (color temperature blue) gels are available for Nila fixtures in 1/8, 1/4, 1/2, and Full densities.

CTO gels are useful if you'd like your daylight fixtures to match other tungsten fixtures. CTB gels are useful if you'd like your tungsten fixtures to match other daylight fixtures.

Nila hard gels can be cleaned with water or a non-abrasive window cleaner and a soft cloth. Be careful not to scratch your gels as scratches can diffuse the light output of the fixture.

5 - ZAILA SPECIFICATIONS



input voltage: 100-240V AC & 10-18V DC

AC input voltage frequency (AC): 50 to 60 hertz

power consumption: 40 watts

dimmer: built in, dims from 0 to 100%

light source: single color, high brightness LEDs

LED rated lifespan: 20,000+ hours

color: available in 6000°K (daylight) or 3400°K (tungsten)

stability: flicker free up to 5000 FPS at any output level

flicker free at any frame rate at 100% output

chassis: anodized aluminum

operating temperature: -40°F to +120°F (-40°C to +50°C)

remote operation: Nila Net or DMX (with adapter)

network connections: RJ45

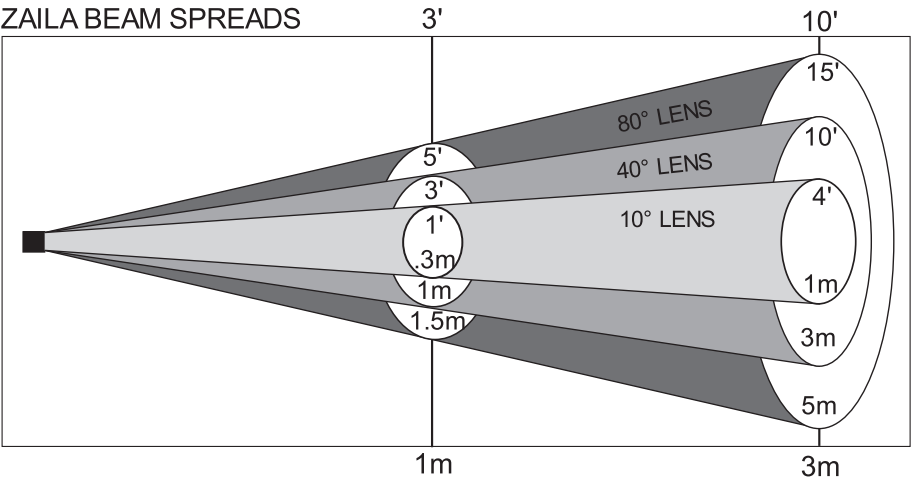
mounting: yoke with junior pin and baby receiver

warranty: two years, limited

ETL & CE approved

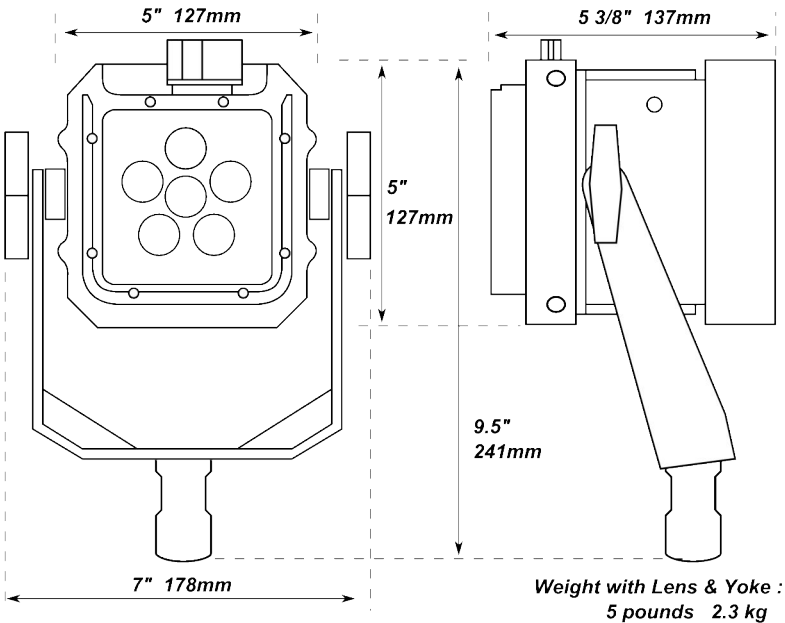
RoHS compliant

ZAILA BEAM SPREADS



ZAILA PHOTOMETRICS (daylight balanced)

Lens	3 Ft (FC)	10 Ft (FC)	20 Ft (FC)	1m (lux)	3m (lux)	6m (lux)
Raw	2500	200	52	26910	2150	560
10	1400	120	30	15070	1290	320
20	800	64	16	8610	690	170
40	500	42	11	5380	450	115
60	190	17	5	2045	180	55
80	110	11	3	1180	115	30
60x10	500	42	11	5380	450	115

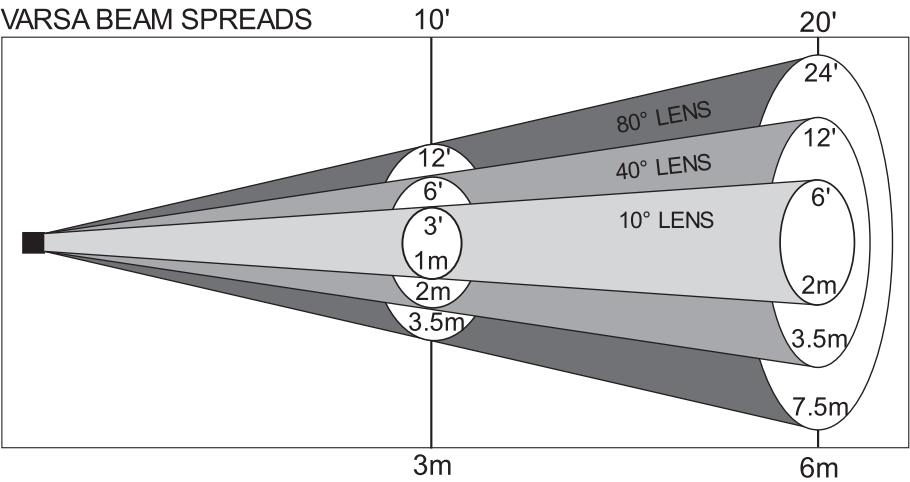


6 - VARSA SPECIFICATIONS



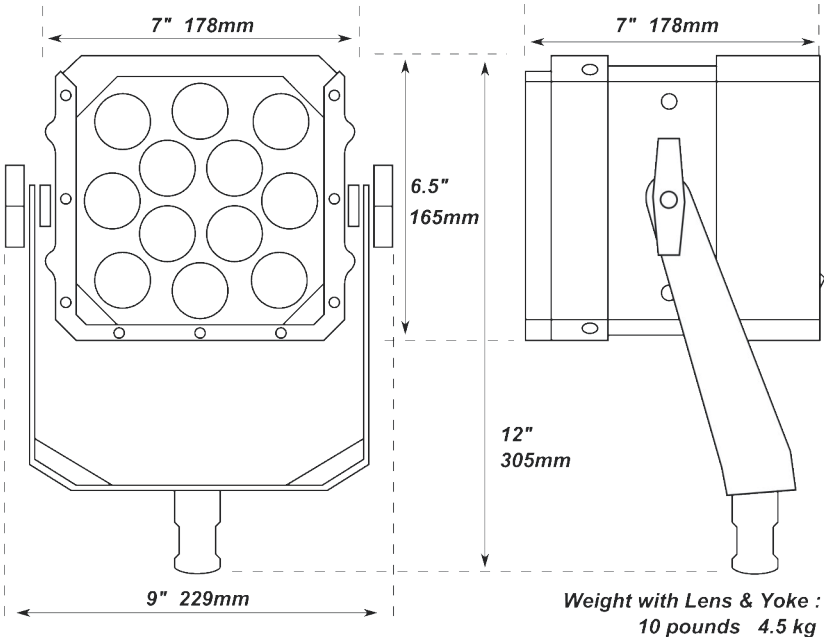
input voltage: 100-240V AC & 10-18V DC
input voltage frequency (AC): 50 to 60 hertz
power consumption: 75 watts
dimmer: built in, dims from 0 to 100%
light source: single color, high brightness LEDs
LED rated lifespan: 20,000+ hours
color: available in 6000°K (daylight) or 3400°K (tungsten)
stability: flicker free up to 5000 FPS at any output level
 flicker free at any frame rate at 100% output
chassis: anodized aluminum
operating temperature: -40°F to +120°F (-40°C to +50°C)
remote operation: Nila Net or DMX (with adapter)
network connections: RJ45
mounting: yoke with junior pin and baby receiver
warranty: two years, limited
ETL & CE approved
RoHS compliant

VARSA BEAM SPREADS



VARSA PHOTOMETRICS (daylight balanced)

Lens	3 Ft (FC)	10 Ft (FC)	20 Ft (FC)	1m (lux)	3m (lux)	6m (lux)
Raw	9400	1200	300	100000	13000	3200
10	5000	500	140	54000	5500	1500
20	2000	190	50	22000	2000	520
40	900	80	20	9600	840	210
60	480	42	11	5000	450	110
80	340	28	7.4	3600	300	80
60x10	1500	140	37	17000	1500	400

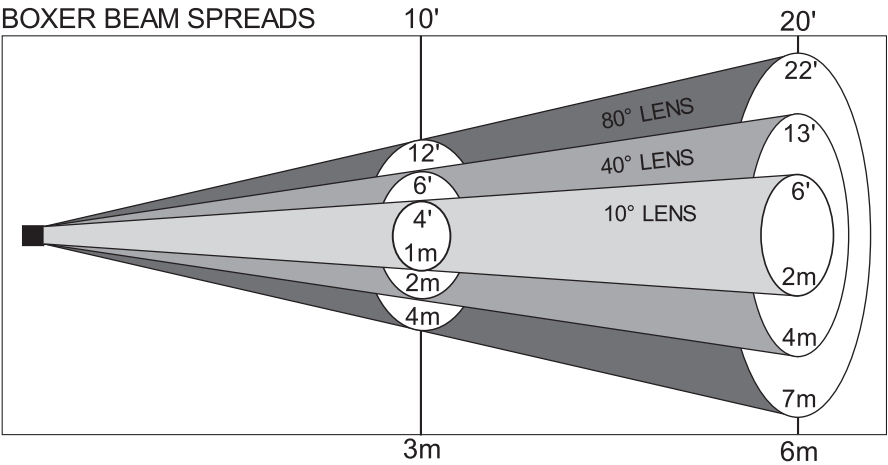


7 - BOXER SPECIFICATIONS



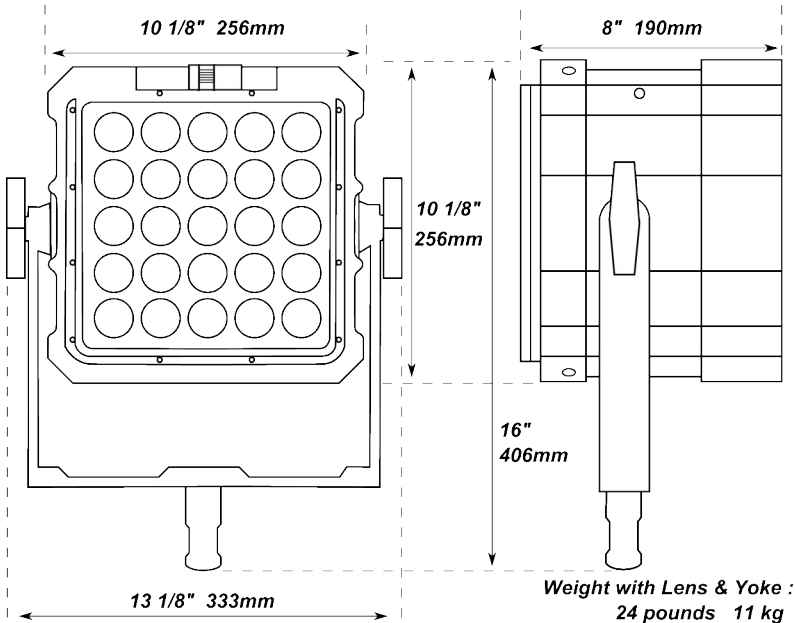
input voltage: 90-305V AC & 20-30V DC
input voltage frequency (AC): 50 to 60 hertz
power consumption: 200 watts
dimmer: built in, dims from 0 to 100%
light source: single color, high brightness LEDs
LED rated lifespan: 20,000+ hours
color: available in 6000°K (daylight) or 3400°K (tungsten)
stability: flicker free up to 5000 FPS at any output level
 flicker free at any frame rate at 100% output
chassis: anodized aluminum
operating temperature: -40°F to +120°F (-40°C to +50°C)
remote operation: Nila Net or DMX (with adapter)
network connections: RJ45
mounting: yoke with junior pin and baby receiver
warranty: two years, limited
ETL & CE approved
RoHS compliant

BOXER BEAM SPREADS



BOXER PHOTOMETRICS (daylight balanced)

Lens	10 Ft (FC)	20 Ft (FC)	30 Ft (FC)	3m (lux)	6m (lux)	10m (lux)
Raw	2900	800	340	31215	8610	3660
10	1300	360	160	14000	3875	1720
20	500	130	60	5380	1400	645
40	190	52	26	2045	560	280
60	100	30	15	1075	320	160
80	80	23	11	860	245	115
60x10	320	84	40	3445	900	430



8 - ARINA SPECIFICATIONS



input voltage: 90-305V AC

input voltage frequency (AC): 50 to 60 hertz

power consumption: 800 watts

dimmer: built in, dims from 0 to 100%

light source: single color, high brightness LEDs

LED rated lifespan: 20,000+ hours

color: available in 6000°K (daylight) or 3400°K (tungsten)

stability: flicker free up to 5000 FPS at any output level

flicker free at any frame rate at 100% output

chassis: anodized aluminum

operating temperature: -40°F to +120°F (-40°C to +50°C)

remote operation: Nila Net or DMX (with adapter)

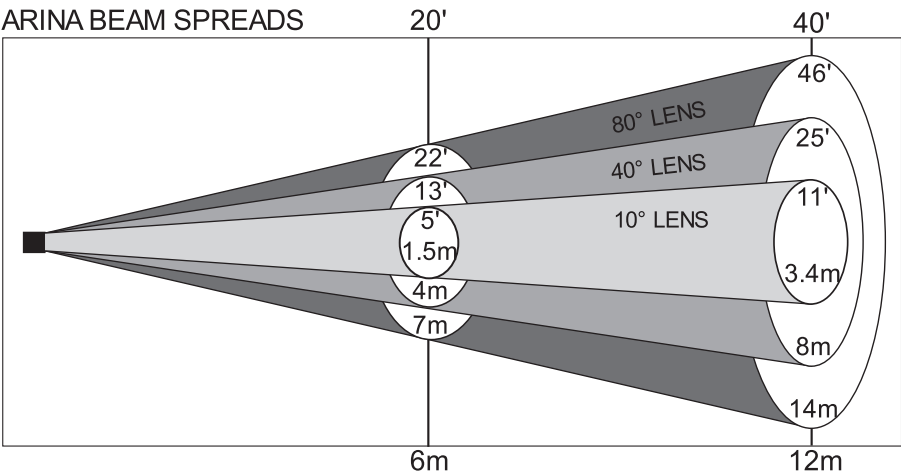
network connections: RJ45

mounting: yoke with junior pin or hanging harness

warranty: two years, limited

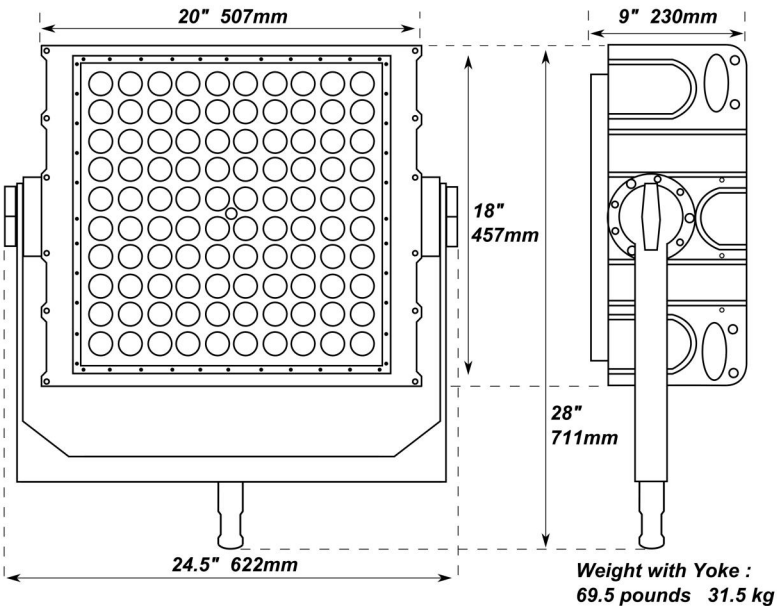
ETL & CE approved

RoHS compliant



ARINA PHOTOMETRICS (daylight balanced)

Lens	20 Ft (FC)	30 Ft (FC)	40 Ft (FC)	6m (lux)	10m (lux)	15m (lux)
Raw	3000	1400	830	32290	15070	5920
10	1300	600	360	14000	6460	2370
20	550	250	150	5920	2690	1075
40	220	110	64	2365	1185	485
60	140	73	42	1505	785	300
80	97	55	32	1045	590	225
60x10	340	170	97	3660	1830	690



9 - LIGHTING KITS

ENG KIT



Nila's ENG kit comes packed with everything you need in one convenient package.

Included in the kit:

2x Nila Varsas - in daylight or tungsten

2x Varsa barn door kits

12x Varsa holographic film lenses

2x Varsa lens pouches

8x Varsa hard gels - in CTO or CTB

2x battery adapter plates - in gold-mount or V-mount

1x Varsa Chimera kit - Super Pro Plus Silver

2x lightweight kit stands

1x Pelican 1740 case with custom foam insert

Total packed weight - less than 70 pounds



HIGH SPEED LAB KIT

Included in the kit:

2x flicker-free* Zaila fixtures - in daylight or tungsten

6x Zaila holographic film lenses - 2 each of 20°, 40°, & 60°

1x Zaila lens pouch

1x Pelican 1514 case with padded divider set

2x lightweight kit stands



HIGH SPEED CAPTURE KIT

Included in the kit:

2x flicker-free* Varsa fixtures - in daylight or tungsten

6x Varsa holographic film lenses - 2 each of 20°, 40°, & 60°

1x Varsa lens pouch

1x Pelican 1740 case with custom foam insert

2x lightweight kit stands

*Nila's fixtures are flicker-free at any frame rate when used at 100% and at speeds up to 5000 FPS when dimmed.



**LIGHT
SMARTER**