

# LEDBLADE

CRE:ON – Hybrid Pixel Drive

User manual v0.93  
firmware v1.7

# THANK YOU FOR PURCHASING LEDBLADE CREON-HYBRID PIXEL DRIVE

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Please read the user manual carefully before using the CRE:ON Hybrid Pixel Drive. If you have any further questions, please contact The LEDBLADE Team.

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Keep your CRE:ON HD trending! Don't forget to sign up for our firmware updates newsletter.

<https://subscribe.ledblade.com/creon>

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## General description of the equipment

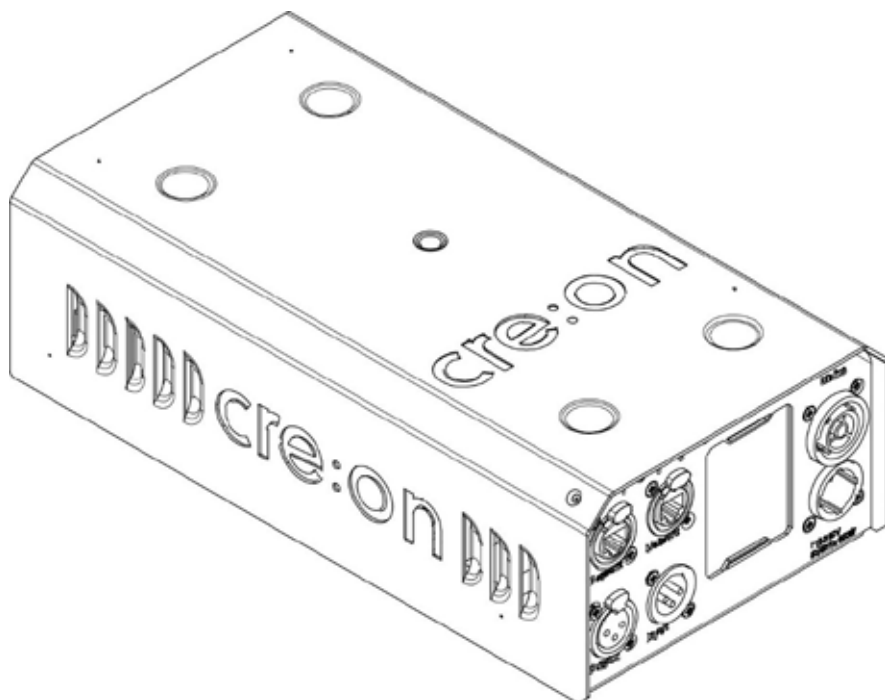
### Description

The LEDBLADE CRE:ON-HD unit is a power supply and a digital led strip controller card in one case as a "Hybrid Drive". The CRE:ON HD was developed specially for the event industry.

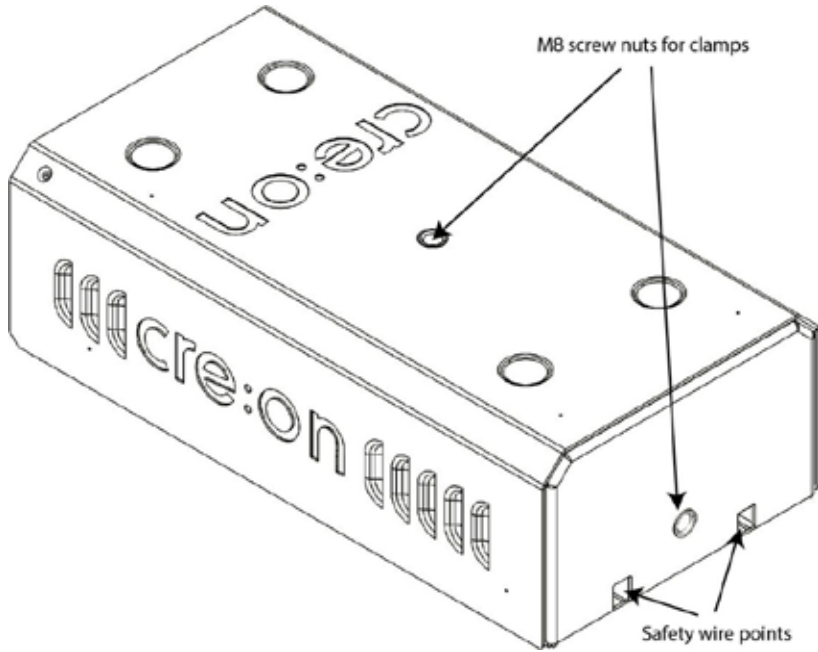


**It has IP33 outdoor rating when the front panel is facing down.**

CRE:ON HD works with and can be connected to both indoor and outdoor versions of straight and curved LEDBLADE ledstripe units.



## Operation of the equipment



### Safety and fixing points

There's one M8x15mm fixing point on the top and one on the back side of the cover for clamps. There are two (2) safety wire fixing points on the back side.

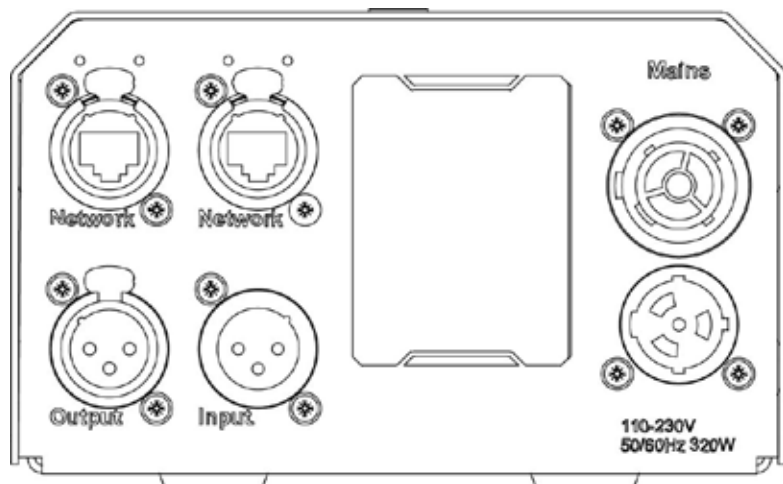


**There are two (2) safety wire fixing points on the back side.**

Maximum operational temperature is 60 Degrees Celsius.

## Basics

Let's see the basics of the CRE:ON HD:



### Power Connectors

The input voltage is 100 - 240V @50-60Hz, maximum power consumption: 320W. Please use at least 3x1,5mm<sup>2</sup> cable with standard Neutrik powerCON true1 series connector for power connection and for daisy chain. We suggest ten (10) CRE:ON HD units connected in daisy chain as maximum.



**There's no dedicated power switch on the device, this function is served by the Neutrik connector. Make sure that the power connectors are easily accessible to turn off the unit for cases of unforeseen emergency situations! Make sure that the power source is protected against overload!**

### Input and Output connectors

Use the Input port when the unit is switched to 'Bypass' mode or in 'SPI mode' for DMX triggering.

The Output port is dedicated to LEDBLADE units.

The output voltage is 24VDC on the standard Neutrik NC3FD-H-BAG

connectors.

## Network connectors

Standard Neutrik NE8FDP-B connectors.

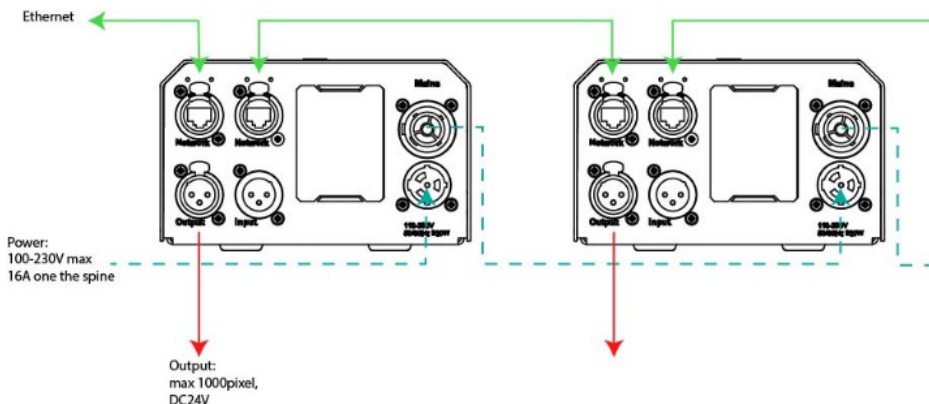
### First start guide as an ArtNet node

- Unwrap the CRE:ON driver
- Connect a LEDBLADE unit to the output
- Connect your controller to the power source
- Connect your devices to the same network
- Set the unit IP range to 2.x.x.x or 10.x.x.x /These are the standard ArtNet ranges, take care of the IP collision/
- Set the subnet mask to 255.0.0.0
- Start the controller software like Madrix, Resolume, Arkaos, or lighting consol...
  - You will see the CREON node on the network
  - Set the subnet to 0 and univers to 0
  - Prefer the unicast instead of broadcasting so choose the correct driver
  - Repeat as many times as the number of CRE:ON units you have in the network




## Details

### Networking



The signal communication is based on standard Ethernet communication and runs through a 100/1000 switch powered separately. Use cat5e or higher ranked cable for daisy chain and standard connectors for the best result. We suggest maximum 10 units in chain, use a standard gigabit switch to expand the networking.



**Every cases we suggest to use ArtNet Unicast / when send data directly to exact IPs/, to avoid the package lost and process lag on the network when use a lot of parameters**

### Handling

You can find a 2,8" resistive touch screen on the front, to manage all of the editable parameters like

- IP address
- modes
- color parameters
- color orders
- test animations

- ...  
To use these controllers choose a standard ArtNet output based software (Resolume, Madrix, Arkaos, MadMapper, etc) or download the latest LedStripStudio software from the [www.ledstripstudio.com](http://www.ledstripstudio.com) website.

## ArtNet, sACN

The device communication based on the Artistic License ArtNet 4 standards. It can receive both protocols at the same time. You don't need to set the control modes, just send your controlling signal to the CREON. If you want to know more about ArtNet4 please visit: <https://art-net.org.uk/>



**To get discoverable CREON nodes on the network, use the 255.0.0.0 subnet mask!**

Control types:






- ArtNet broadcast
- ArtNet unicast
- sACN broadcast
- sACN unicast

Example:

1. grab a CREON with some blades
2. turn on
3. plug in the networking cable
4. set the IP and the starting universe number at the 'Settings/Networking'
5. tap on the '✓' to save the setting
6. Broadcast or multicast the signal to the controller on the selected IP and **255.0.0.0** subnet mask

## User interface

### Basic GUI buttons

- Save 
- Cancel 
- set UP/DOWN  
- Back to the 'Home screen' 

### Main screen

The main screen appears after the unit boot.

- Unit ID
- Current IP
- ArtNet Net and SubUniverse no.
- sACN Hi and Lo universe no.
- Version ID
- Settings icon

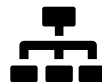
### Settings

#### Protocols:

- ArtNet ON/OFF
- sACN ON/OFF
- PixelSize: set the number of physical LED's that you wish to control by one RGB pixel's three (3) DMX channel. Example: When you want to save DMX parameters on your control network, just set it to 2 or higher and you get smaller pixel groups



## Network:



- Set IPv4 address
- Set Subnet mask
- ArtNet Net and SubUniverse no.

### Example

Here is an example If you have separated net, subnet and univers set-up on your controller:

1. The „sub 0 and uni 0“ is the „subuni 0“ on CRE:ON
2. The „sub 1 and uni 1“ is the „subuni 17th“ on CRE:ON.

- sACN Hi and Lo universe no.

'Hi uni: 0-255', 'Lo uni: 0-255', the state 0 - 0 is invalid by the standard. On the sACN network, the first valid universe is 1. Set the "Hi uni" to 0, and "Lo uni" to 1. to Reach the first universe

### Example

1. Hi uni - Lo uni: 0-1 means sAcn uni 1
2. Hi uni - Lo uni: 0-5 means sAcn uni 5
3. Hi uni - Lo uni: 1-0 means sAcn uni 256
4. Hi uni - Lo uni: 12-5 means sAcn uni 3077

## Manual:



- RGB Color sliders
- Test animations

## System - firmware update:



- CRE:ON ID setting
- BETA firmware update
- Tested 'Firmware update'

### Example

1. Connect the CREON to a LAN with internet connection and use DHCP IP addressing on the network.
  2. Tap on the 'Firmware update' button,
  3. wait until the unit restart,
  4. Check the version no. on the main screen.
- Remember to sign up at <https://subscribe.ledblade.com/creon> for our firmware updates newsletter!



**Don't disconnect the internet while the update is running!**

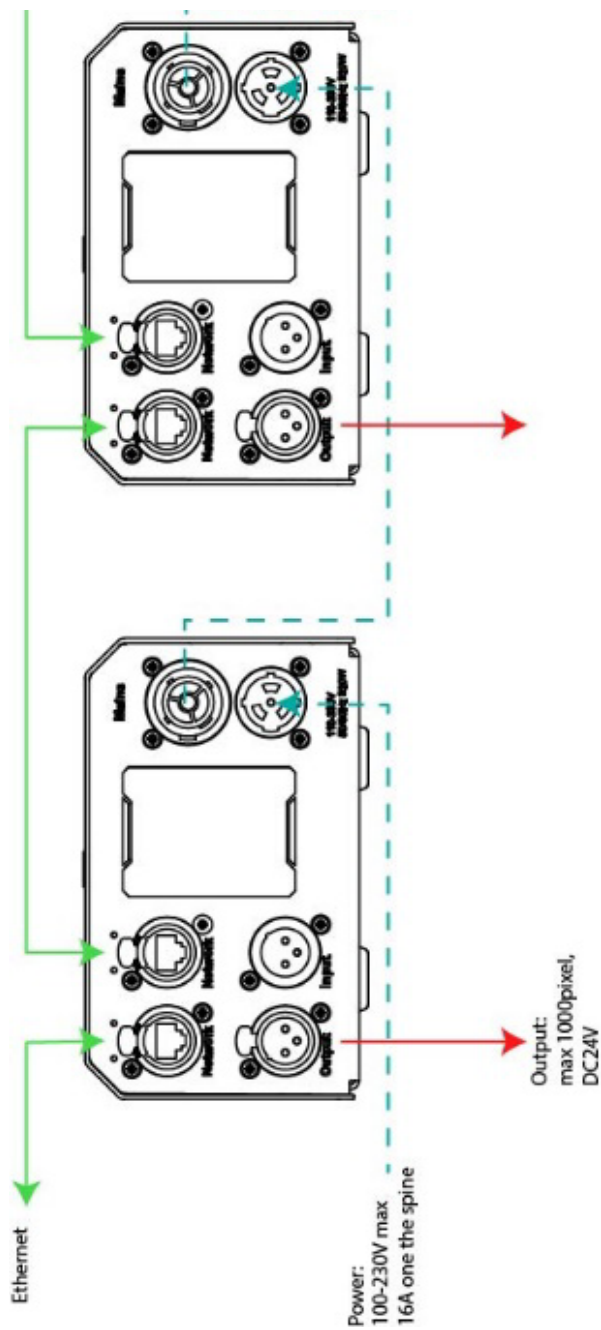
## CRE:ON HD Technical Specifications

Dimensions	
L x W x H	302 x 157 x 96mm
Weight	3700g
<b>Mounting</b>	2x M8x15mm
Main input	100-240V @50-60Hz
Power	320W
Operational temperature	-20 to +60 Celsius
Rating	IP33
Color	outdoor, matt black, macro texture
Output no	1
Max no. of pixels	1000
Output voltage	24VDC
Connectors	RJ45, XLR, PowerCon true1
Touch screen	2,8" resistive
Known control protocols	LSS, ArtNet, sACN, KlingNet

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## Connecting diagram



# LED **BLADE**

Much more than a LEDSTRIPE

[www.ledblade.com](http://www.ledblade.com)