

hal:on

by LEDBLADE

User manual for
sw. v1.1

Thank you for purchasing hal:on! The RGBW LED Halo Set



Please read the user manual carefully before using hal:on. If you have any further questions, please contact your LEDBLADE distributor!

For further information, please contact:

info@ledblade.com

Manufacturer:

Nádorliget Invest Kft.

Kelenföldi út 2.

H-1115 Budapest, HUNGARY

www.ledblade.com

info@ledblade.com



Keep your hal:on trending!

Sign up for our firmware updates & news:

<https://www.ledblade.com/halon-newsletter/>

Contents

General description of the Halo Set ...5

Description ... 5

How to install the hal:on LED Halo Set ...6

-the gibbon ...6

-the hal:on controller ...6

-the hal:on LED ring ...7

Safety points ... 7

Basics ... 8

Power Connectors

Input and Output connectors

Network connectors

Details ...9

Networking ... 9

Handling ... 9

ArtNet	... 9
Firmware update	...10
Main screen details	...10
<u>hal:on Menu Map</u>	...11
<u>hal:on Direct Mode DMX Sheet</u>	...12
<u>hal:on Fixture Mode DMX Sheet</u>	...13
<u>hal:on Technical Specifications</u>	...14

General description of the Halo Set

Description

The hal:on LED Halo consists of 2x73 (146) RGBW pixels in total, with 4000K white color temperature.

The hal:on set is available in different configurations:

1. hal:on basic set for the 'P1' retro lamp:

contains the following:

- 1 x LED Halo (2 semi-LED-circle),
- 2 sets x fixing clamps (4),
- 1 x hal:on controller,
- 1 x gibbon for P1,
- 1 x power cable for controller,
- 1 x connecting cable to 'P1' luminaire.

2. hal:on mini set for 'p1 mini':

contains the following:

- 1 x LED Halo (2 semi-LED-circle),
- 1 set x fixing clamps (4),
- 1 x hal:on controller,
- 1 x gibbon for P1 mini,
- 1 x power cable for controller,
- 1 x connecting cable to 'P1 mini' luminaire.

3. hal:on light set for standalone mode:

contains the following:

- 1 x LED Halo (2 semi-LED-circle),
- 1 x hal:on controller,
- 1 x power cable for controller,
- 1 x upper link (to connect and fix the upper half of the 2 LED semi-circles),
- 1 x lower stand (to connect and fix the lower half of the 2 LED semi-circles),
- 1 x gibbon (to mount the hal:on controller onto any available stand).

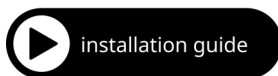
The above sets are also available in add-on configurations as extensions to any of the above sets.



The hal:on set is designed for indoor usage!

How to install the hal:on LED Halo set

Access and watch the installation guide videos for the different hal:on sets by scanning the following QR Code:



1. The Gibbon

Mount the gibbon of your hal:on set with the removed 4 screws of the P1/P1 mini's case. In light set mode, first assemble the LED ring and connect the gibbon to the assembled lower stand fixed on your layar with the layar's top screw.



Gibbon mounted on P1's case / Speaker Stand / P1 mini's case

2. The hal:on controller

Attach the hal:on controller's plate into and through the gibbon and fix with the black handscrew on the top.

3. The hal:on led ring

For the hal:on basic set for P1 & P1 mini set:

Join the 2 half segments together and attach the LED ring to the frontal outer frame of the P1 or P1 mini luminaire using the 4 fixing clamps.

A clamp screw is already attached on the back side of one of the semi-circles. Remove a screw from one of the 4 clamps and replace it with the one attached to the segment.

In case of 'P1' luminaire, make sure, that two opposite clamps should face inwards and the other pair of clamps should face outwards of the ring.

For easier assembly, start with the clamps facing inwards at first, followed by the clamps facing outwards.

In case of using a 'P1 mini' lamp, it's easier to tilt the 'P1 mini' with 90° into horizontal position before attaching the LED ring. Make sure, that all 4 clamps should face inwards of the ring in uniform alignment towards the P1 mini's frame.

When attaching the clamps to the 'P1's or 'P1 mini's frontal frame, be careful not to apply extra strength or excessive force to click mount the clamps of the LED ring, otherwise the clamps may break.

For the 'hal:on light set', use the upper and lower connecting parts to join the 2 half LED segments. When connected, mount the lower stand (connecting link) and thus the assembled LED ring to your layar by using its top fixing screw.

Safety points

You can find safety hole on the halon's case and on the gibbon. Please everytime use a safety wire when installing the unit!

Basics

Let's see the basics of the hal:ion RGBW LED Halo Set:

Power Connectors

The input voltage is 100 - 240V @50-60Hz, maximum power consumption: 75W. Please use at least 3x1,5mm² cable with standard Neutrik powerCON connector for power connection and for daisy chain.

Connector Blue: Power input

Connector White: Daisy chain to the 'P1' or 'P1 mini'



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

DMX input 5-pin: standard DMX512, RDM not supported, pixel mode not supported

DMX output 5-pin: standard DMX512 output to 'P1' and 'P1 mini'

Halon output 4-pin: direct 5V and SPI out to the LED ring

Network connectors

It has a separated network switch inside with communication feedback on the top of the connectors.

Standard RJ45 connectors: ArtNet 4.0 & ArtNet RDM supported.

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 dasy chain and standard connectors for the best result. We suggest maximum 10 units in chain, use a standard gigabit switch to expand the networking.



In every case we suggest to use ArtNet Unicast / when send data directly to exact IP's/, to avoid the package lost and process lag on the network when use a lot of parameters.

Handling

You can find a display and 5 buttons on the front:
4 buttons for the navigation and the middle one is the 'Enter'.

In Main Menu, you can easily modify a lot of setup parameters, such as:

- Pixel controlled or fixture mode
- Full manual control
- Test animations
- Networking setup

ArtNet

The device communication based on the Artistic License ArtNet 4 standards. If you want to know more about ArtNet4, please visit: <https://art-net.org.uk/>



To get discoverable hal: on nodes on the network, use the 255.0.0.0 subnet mask.

Firmware update

It has a fail safe updater feature, but take care of the power and network connections during the update!

1. Turn off the unit.
2. Connect to a DHCP based ethernet network with internet connection.
3. Push and hold the 'down' button.
4. Turn on the unit.
5. Check the display screen for details.
6. You can see the updating progress bar on the LED ring when firmware update starts.
7. The unit will restart.
8. Apply (press) 'Reset Config' in 'Menu'.

Firmware update complete.

Main screen details

The screen turns off automatically after 30 seconds. By pushing any buttons, it will turn on.

- SW: software version of the unit
- M: mode indicator /Fixture, Direct/
- IP: IP address of the unit
- NM: Network mask of the unit
- Connection feedbacks

SRV-NO: No ArtNet server connection

SRV-OK: ArtNet server discovered on the network

STREAM: incoming ArtNet stream

DMX-OK: incoming DMX512 signal on the XLR

hal: on Menu Map

Halon Menu map	
Main Network	
IP:	255.255.255.255
Mask:	255.255.255.255
Personality	
Mode:	Mode 0-Direct
	Halo config
	Address Universe
	1-512 64k
	Lamp config
	Address
	Default (146RGBW-Zimmer)
	Manual
	Address
	1-512
	Universe
	64k
	Fixture config
	Address Universe
	1-512 64k
Reset Config	
	Mode 1-Fixture (lamp 7ch + each halo ring control) Set the P1's dmx add. !f
Reset unit configuration	
Manual	
Enable	Yes
	No
Intensity	0-255
Strobe	0-255
FX Red	0-255
FX Green	0-255
FX Blue	0-255
FX White	0-255
FX select	0-255
FX speed	0-255
FX background Red	0-255
FX background Green	0-255
FX background Blue	0-255
FX background White	0-255
Prism	not implemented, fix in 0.8
Prism rot	not implemented, fix in 0.8

hal:on Direct Mode DMX Sheet

HALON DMX CHART

Halon direct (pixelmap) mode, Default P1 layout			
pixel	Mode0 - Direct mode	uni.ch	Default
1	1. RGBW	1.1-4	
2	2. RGBW	1.5-8	
128	128. RGBW	1.509-512	
...	
129	129. RGBW	2.1-4	
...	
146	146. RGBW	2.69-72	
P1	Dimm1	2.73	0-255
P1	Dimm2	2.74	0-255
P1	Dimm3	2.75	0-255
P1	Dimm4	2.76	0-255
P1	Dimm5	2.77	0-255
P1	Dimm6	2.78	0-255
P1	Dimm7	2.79	0-255
Halon direct (pixelmap) mode, User defined P1 address			
	Mode0 - Direct mode	ch	Manual
1	1. RGBW	1.1-4	
2	2. RGBW	1.5-8	
128	128. RGBW	1.509-512	
...	
129	129. RGBW	2.1-4	
...	
146	146. RGBW	2.69-72	
P1	Dimm1	us.def	0-255
P1	Dimm2	us.def +1	0-255
P1	Dimm3	us.def +2	0-255
P1	Dimm4	us.def +3	0-255
P1	Dimm5	us.def +4	0-255
P1	Dimm6	us.def +5	0-255
P1	Dimm7	us.def +6	0-255

hal:on Fixture Mode DMX Sheet

Halon fixture mode DMX sheet			
Ch no.	Mode1 - Fixture mode		Set the P1's dmx add. !!
1	Halo Dim	0-255	
2	Halo Strobe	0	open
		1-255	strobe rate up to 100Hz
3	Halo FX Red	0-255	
4	Halo FX Green	0-255	
5	Halo FX Blue	0-255	
6	Halo FX White	0-255	
7	Halo FX select	0-3	fx1
		4-7	fx2
		8-11	fx3
	
		252-255	fx64
8	Halo fx speed	0-255	0-118 backwards speed
			123 -133 stop
			138-255 forward speed
9	FX backgrnd Red	0-255	
10	FX backgrnd Green	0-255	
11	FX backgrnd Blue	0-255	
12	FX backgrnd White	0-255	
13	Prism	0-19	open
		20-39	prism1
		40-59	prism2
		60-79	prism3
		80-255	prism4
14	Prism rot		0-118 backwards speed
			123 -133 stop
			138-255 forward speed
15	P1 - Dimm1	0-255	
16	P1 - Dimm2	0-255	
17	P1 - Dimm3	0-255	
18	P1 - Dimm4	0-255	
19	P1 - Dimm5	0-255	
20	P1 - Dimm6	0-255	
21	P1 - Dimm7	0-255	



hal:on Technical Specifications

Dimensions	
L x W x H (hal:on controller):	270 x 210 x 60 mm
Display:	2 x 16 character, alphanumeric LCD
Weight:	1500 g
Mounting:	QuickSnap system
Main input:	AC 100-240 V @50-60 Hz
Power:	hal:on: 75 W; max. 10A (with 'P1')
Operational temperature:	0° to +40° Celsius
Rating:	IP20
Controller's appearance:	matte black, white texture
Max no. of pixels:	2 x 73 (146 RGBW in total), 4000 K
Output voltage:	5 V DC
Connectors:	RJ45, XLR, PowerCon in/out
Modes:	Fixture mode: 14 ch; Direct mode: 584 ch
Known control protocols:	DMX512; ArtNet

Art-Net™ Designed by and Copyright Artistic Licence Holdings Ltd.

LED **BLADE**

Much more than a LEDSTRIPE

www.ledblade.com