

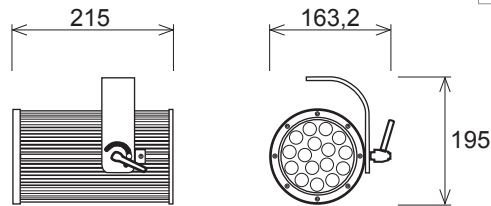
USER MANUAL

LL STAGE SPOT VARIO OPTIC

Without optic: **LL36 203**
With optic: **LL36 202**



All dimensions are in millimeters



Following items are included:

1. LL STAGE SPOT VO without optic

- LL STAGE SPOT 16 RGBA , without optic 1 pc.
- PowerCon type "A" + "B" 1 pc.
- User manual 1 pc.

2. LL STAGE SPOT VO with optic.

- LL STAGE SPOT 16 RGBA , without optic 1 pc.
- LL VARIO OPTIC SPOT 16 25° 1 pc.
- PowerCon type "A" + "B" 1 pc.
- User manual 1 pc.

Additional items needed:

- Data cables with XLR 5pin Female/Male 1 pc.
- Controller compatible with DMX 1 pc.
- Mounting accessories as necessary
- Surface mounting:
 - Screws and washers 1xM12 or 2xM10

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ENVIRONMENT

Do not throw away the appliance with the normal household waste at the end of its life, but hand it in at an official collection point for recycling. By doing this, you help to preserve the environment.



01 SAFETY INFORMATION

WARNING!!!

Carefully read before installing, powering or servicing.
Nothing to do if anything misunderstand! Installation can be done only by a qualified professional in accordance with relevant local codes.

01.1 Risk of eyes damage

- Do not look directly into LED lamps.
- Do not look into light beam from a distance of less than 40 cm (16 inches)!

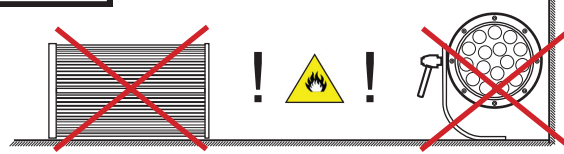
01.2 Protection from electric shock

- Shut down power before installation or maintenance.
- Luminaries and recommended AC power supply must be installed by a qualified professional in accordance with relevant local codes. Only acceptable source of AC power and frequency that complies with local building and electrical codes to use.
- Do not use or do not connect the products if the power cable, power plug or fixtures are any way damaged, wet, or if they are overheating.
- Do not modify, alter, or attempt to service the LeaderLight appliance. Doing so will void the warranty.
- Before removing or installing any cover or part of appliance disconnect it from AC power.
- Appliance always connect to earth (eltech.).

01.3 Fire prevention

- Follow all safety consideration.
- Thermostatic switches or fuses never to bypass.
- Device never shield. Around the axis of the fitting (180°) must be maintained space for cooling. Minimum distance from the surrounding objects must be 100mm (4 in.) (figure 1.1).
- LEDs never direct cover with filters or other materials.
- Allowing max. ambient temperature is 40°C (104°F).
- Luminaries never use without mounting brackets. The housing never install directly to the surface.

WARNING!!!




Non-minimum distance and / or non-use the original brackets is at your own risk!

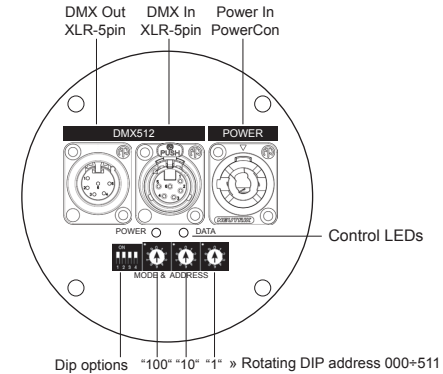
02 PRODUCT SPECIFICATION

02.1 Technical Specification

Lamp type:	16xRGBA OneChip LED *
Lifetime:	Long 60 000 hrs 90% degradation
Vario Optic:	10°, 25°, 40° and EL (Elliptical 15°x90°)
Control data connection:	DMX 512 In/Out with 5pin XLR
Input power:	150W
Power connection:	100-260V AC In/Out PowerCon
Net weight:	3kg
IP:	IP20
Ambient temp. (Ta):	Maximum 40°C
Cooling:	Conventional
Materials and finish:	Housing: powder-painted anodized aluminium in black (other colours on request)
Installation:	Surface mounting

* Note: LED:  RGBA-Red and Green and Blue and Amber

02.2 Back panel



Control LEDs Indication

LED	INDICATION	STATUS
POWER (Red)	blinking – 2Hz	OK - inside fixture is everything correct
DATA (Green)	light off	NO DMX512 signal
DATA (Green)	blinking – 4Hz	OK- income correct DMX512 signal
DATA (Green)	fast blinking	NON correct digital signal
POWER (Red)	alternate blinking	Autotest function
DATA (Green)		

03 INSTALLATION

03.1 Unpacking

- Unpack carefully.
- This is electronic equipment and should be handled carefully.
- Damaged delivered package or if are any mechanical parts broken – it must be claim immediately by the transport company. Photo pictures as evidence are valuable for future claim.


03.2 Physical installation

- Loading capacity of bearing area has to be at least 10 times the weight of all device clusters (luminaries, clamps, cables, ...).
- Hairbreadth from combustible materials is 0,5m.
- Before physical installation insert the optic modul on front of luminary. The optic installation is easy and fast by 1 screw (figure Nr. 2.1).

03.3 Connecting to AC power

- **To tackle all Safety Information- 01!**
- For protection from electric shock, the device must be grounded (earthed)!
- It is not necessary to open the fixture before power supply.
- Power supply is solved simple with Neutrik PowerCon connectors.
- The fixture is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-260V.

- Cord plug connections:

Symbol	Pin	Wire Colour	Screw (US)
L	live	brown	yellow or brass
N	neutral	blue	silver
	ground (earth)	yellow/green	green

03.4 Control data connecting

- Control data cable length is specified by Norm IEC929 Annex E4.
- It is not necessary to open the fixture before connecting of DMX512 control signal. Interconnections are realized by Neutrik XLR 5pin IN/Out connectors.
- Pin connections:
 - Pin 1 – ground
 - Pin 2 – signal negative
 - Pin 3 – signal positive

03.5 DMX channels - subject to change

- The latest version of DMX channels appendix are on the websites - www.leaderlight.eu

DMX channels:	
dmx1	= Red
dmx2	= Green
dmx3	= Blue
dmx4	= Amber
dmx5	= Master (Dip1=On)
dmx6	= Strobo (Dip1=On)

Switch functions Dip4:	
Dip1	= ExtMode (+2 ch.: Master, Strobo)
Dip2	for future
Dip3	for future
Dip4	= Ultra soft curve

04 MAINTENANCE

- To tackle all Safety Information- 01!
- Damage caused by inadequate cleaning or maintenance is not covered by warranty.
- Regular cleaning is demand (dust, dirt, ...)

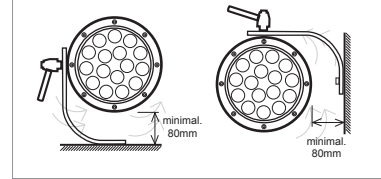


Maintenance policy:

- Unplug mains before maintenance and at least 10 minutes cool off
- Appliance do not illegal open or demount
- Clean-up dust only from outer surface (for ex. scuttle, diffuser and lenses).
- Use vacuum or dumpy duster (warm water)
- Before reinstalling to check failure-free state – no wet parts!

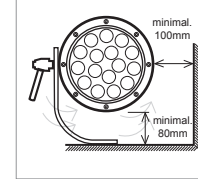
INSTALLATION SPACE

Ventilation space 180° free



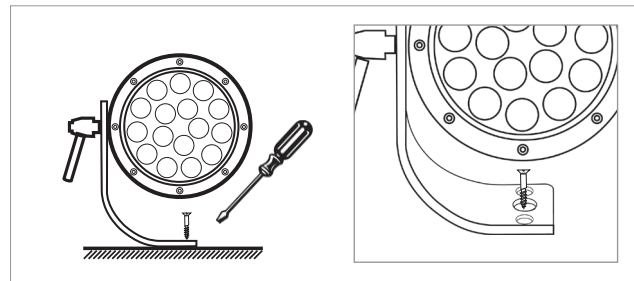
Minimal mounting distance from surface

Ventilation space 90° free

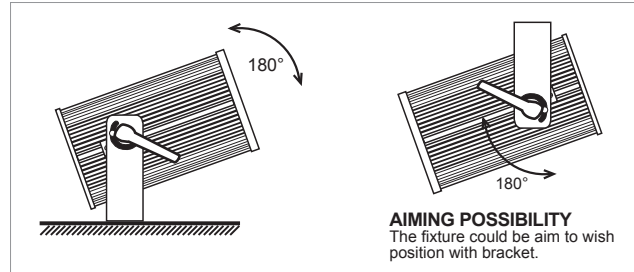


1.1

Surface installation



Screw the fixture to the surface (M12 or 2xM10)



Unfix by hand the screw and aim the fixture to the wish position and fix.

1.2

Vario Optic installation

It is not necessary to open the fixture for exchange of Vario Optic



LL VARIO OPTIC SPOT 16

The optic installation is easy and fast by 1 screw. Carefully remove the optic modul and insert the new one and fix with screw.

2.1

If you have any question please, contact support@leaderlight.sk

Order code	Product name
LL36 202	LL STAGE SPOT 16 RGBA VO, 25°
LL36 203	LL STAGE SPOT 16 RGBA, without optic
Accessories:	
LL37 190	LL VARIO OPTIC SPOT 16 10°
LL37 191	LL VARIO OPTIC SPOT 16 25°
LL37 192	LL VARIO OPTIC SPOT 16 40°
LL37 193	LL VARIO OPTIC SPOT 16 EL (Elliptical 15°x90°)