600W LED Profile

USER MANUAL

Summary

INTRODUCTION
Thank you for selecting the 600W LED profile luminaire.

WARNING !
This product is not suitable for household use.

You now own a professional lighting unit that offers endless possibilities. Before installing, make sure that no damage was done to your luminaire during transport.

For your own safety and that of others, please read this instruction manual carefully before installing the unit.
Anyone involved in installing, operating or servicing the 600W LED profile must:
• Be a qualified, authorized professional
• Strictly follow the instructions in this user manual.

Please take the time to read this manual carefully and thoroughly before installing and operating the luminaire. You should have a good knowledge of its operating conditions and all pertinent product information.

After you have become familiar with this manual, we recommend that you keep a copy for future use.

SAFETY INSTRUCTIONS
Please read the safety instructions and warnings in this manual carefully before installing and operating the 600W LED profile .

WARNING!
Risk of electric shock.
Use caution when handling. This luminaire requires high voltage, which can result in electric shock.
The 600W LED profile left our factory in perfect working condition. However, if you notice a defect, immediately contact our factory before use.

Failure to observe the safety, installation or assembly instructions contained herein, or any modification made to the 600W LED profile will render the warranty null and void.

Check that the supply voltage does not exceed the maximum authorized limit. Check that your electrical installation complies with current standards.

In all cases, make sure that the power cables attached to your 600W LED profile have not been damaged due to cuts and splices or crushed in any way. Handle these cables with extreme caution while they are connected to a power source.

Your 600W LED profile conforms to Class 1 safety standards. The unit must be grounded electrically. Make sure that the power source connected to your 600W LED profile is switched o ffbefore attempting any work on it.

Installation and connection to an electrical source must be performed by an authorized installer.

Our factory declines all responsibility should this luminaire be installed by an unqualified person.

Never disconnect your 600W LED profile by pulling on the power cable! First unlock the connector lock ring on the power cable until it is fully disengaged, and then gently pull on the connector to disconnect the cable.

Do not connect or disconnect the power cable of your 600W LED profile with wet hands.
At first use, your 600W LED profile may give o ffan odor. This is a normal occurrence that should dissipate after a few minutes of operation.

WARNING!
Do not connect or disconnect the power cable at your 600W LED profile if the cable is energized! This could cause arcing and damage your 600W LED profile , requiring repair.

Be careful to power o ffyour 600W LED profile by removing the power plug from the source, before connecting or disconnecting the luminaire.

WARNING!
Never look directly into the lamps if lit or stand directly in line with the luminaire if close by.
Installation, removal or replacement of the unit must be performed with power o ffto prevent any risk of glare and eye injury.

WARNING!
The fixture quickly becomes very hot during operation.

To avoid risk of burn, never handle or adjust the luminaire while it is energized and after it has been lit for more than 10 consecutive minutes. Some parts of the luminaire can reach a high temperature, particularly the body/radiator. Turn o ffthe luminaire and wait for it to cool before handling.

CONDITIONS OF USE
Your 600W LED profile is a moving-head luminaire equipped with LED source intended for professional use (e.g., architectural, stage, television, theater, or museum lighting).

The 600W LED profile luminaire has an IP20 protection rating. It is intended strictly for indoor use. It must never be partially or fully submerged, even temporarily.

Condensation may form on your 600W LED profile in the following cases:
• Immediately after turning on the heating
• In places with fog or a high level of humidity
• When the luminaire is suddenly moved from a cold to a warm
environment, or vice versa.

In such cases, you must wait until the luminaire readjusts to the ambient
temperature of the room where it will be installed for operation.

Do not shake the 600W LED profile while installing or handling.
Do not pull the 600W LED profile by one of its cables to move it. Lift the luminaire
by its handles.

Choosing the appropriate place to install the 600W LED profile is essential. The
following points should be observed:
• Do not expose it to a heat source.
• Do not install it near flammable materials.
• Be sure that dust or miscellaneous debris cannot clump around the
body of the luminaire as this may interfere with its optimal cooling and
proper operation.
• The 600W LED profile must be installed out of reach of the public and all persons
not authorized to operate the luminaire.

We recommend a minimum distance of 5 m between the outside surface
of the light and the illuminated object.

Due to the nature of its cooling principle, you should never prevent air
from circulating around the body of the luminaire. You must provide a
minimum clearance around your 600W LED profile to allow for cooling.
The 600W LED profile can be installed in a ground pit or any other confined enclosure
only under certain conditions. With this kind of installation, a system
of forced ventilation should be used up to allow air to circulate freely
around the luminaire(s). The air must be constantly renewed because the
luminaire cannot be operated in closed system. Failure to comply with
these requirements may destroy or prematurely wear the 600W LEDprofile , and
our company cannot be held responsible.

No load should be placed on the 600W LED profile . The fixture must not be installed
in such a way as to allow a person, vehicle or any object to run over or
park on it.

Never lay or drop any hard, heavy, or blunt, objects on the 600W LEDprofile . This
includes items made of glass or porcelain (e.g., bottles, dishware, or glass
beads). The luminaire is made of materials such as plastic and extruded
aluminum, making it resistant but not unbreakable. Objects made of hard
materials such as steel or glass that fall on the unit may cause breakage
of the plastic parts or the body. Our company cannot be held responsible for
the luminaire's broken plastic parts or body, which are not covered under
warranty.

The temperature of the room where the 600W LED profile is installed must never
exceed 45°C (Ta = 45°C).

The 600W LED profile luminaire requires a 110-240 VAC supply voltage. Check that
your luminaires have been installed for an application that is compatible
with this information.

Check that the brackets on which you hang or attach your 600W LED profile can
sustain the weight of the luminaire (30kg), taking into consideration all

necessary safety factors.

Do not use your 600W LED profile before being familiar with these recommendations
and do not allow unqualified personnel to handle the product.

To transport your 600W LED profile , we strongly recommend that you use the
complete original packaging, including the dense protective foam inserts.

If your 600W LED Profile is not being used for a long period, you should disconnect
the luminaire from the power source.

Never dispose of the 600W LED profile in a rubbish bin.

PRESENTATION AND FEATURES
The 600W LED profile is a non-waterproof moving head wash light (IP20 protection rating)
using the latest generation of high-performance of LED-type lamps.

This luminaire can be controlled remotely by an external DMX512 signal.
The 600W LED profile incorporates high power white LED source.
The luminaire requires from 36 to 58 DMX channels to be controlled via
an external command system that sends a DMX512 signal (see below for
details).
To adjust the settings on the 600W LED profile (i.e., DMX address, DMX operating
mode and other options), a Remote Device Management (RDM)-type DMX
controller may be required. The DMX RDM protocol is a universal, widely
used standard.
A light console or any standard DMX-type controller is sufficient.
The 600W LED profile consists of a metal frame and plastic covers. The power
connectors and DMX512 signal connectors are on the back of the fixture's
base.

Dimension

117mm   160mm

170mm

521mm

559mm

393mm

252mm

89mm

722mm   757mm
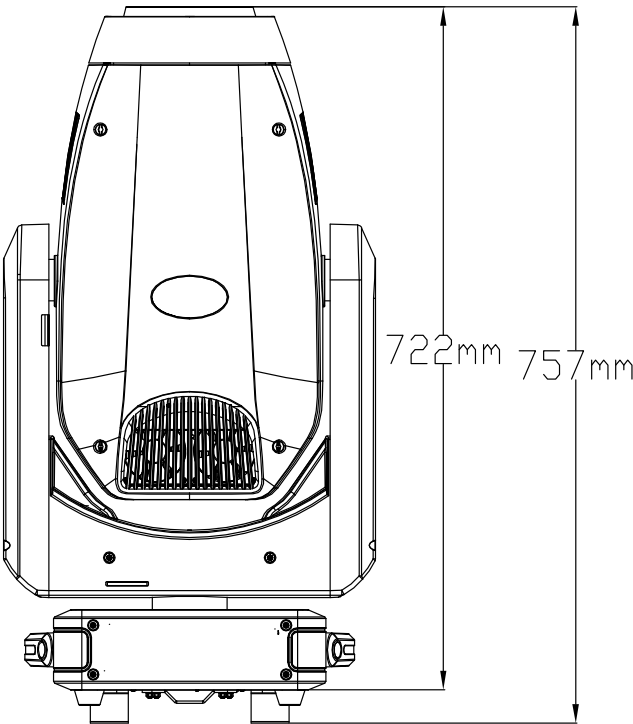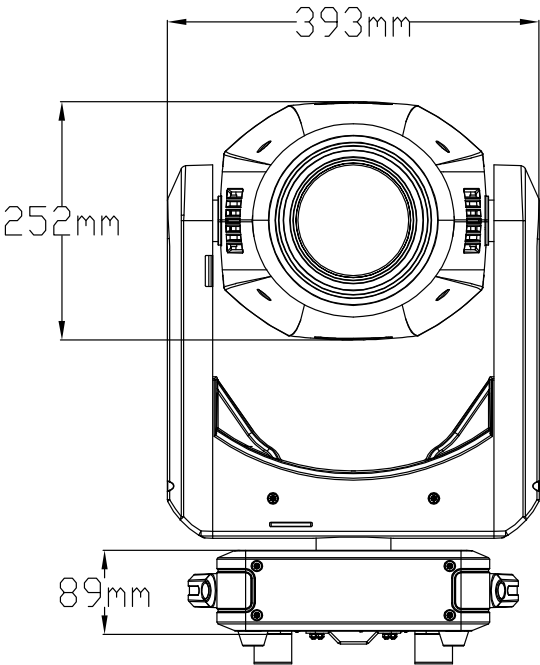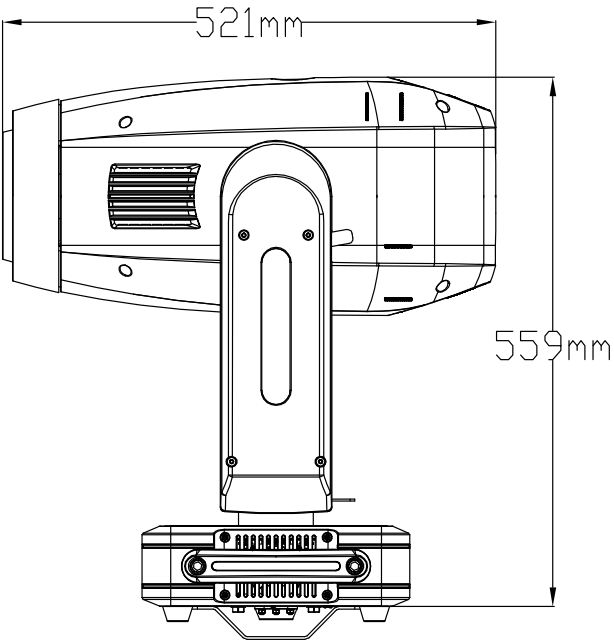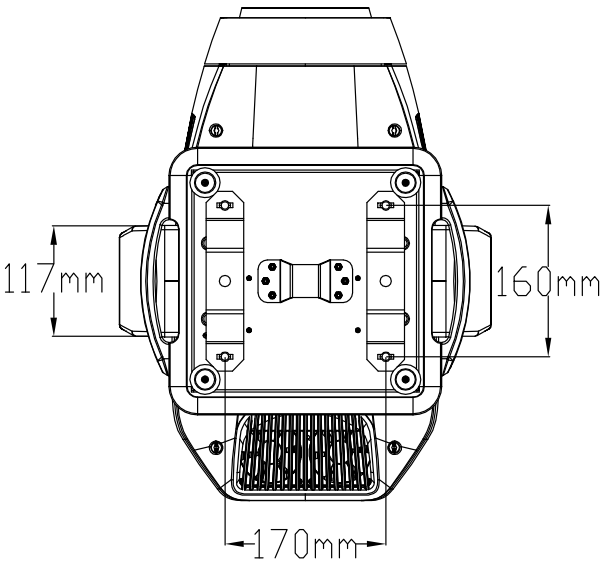
INSTALLATION INSTRUCTIONS.

This luminaire should be installed by a qualified technician.

The fixture should be used in an environment with a temperature between -5°C and +45°C. Do not operate the luminaire outside this temperature range.

The luminaire must be hung so that the weight of this unit multiplied by 10 can be sustained for 1 hour without causing the suspension system or the supporting structure to be deformed.

The installation must always be secured at a second attach point, e.g., by a safety cable of the appropriate size.

Do not stand under the luminaire while it is being installed, dismantled or serviced.

The operator must ensure that a qualified technician has approved the installation of the luminaire for safety before it is first operated. Installation should be inspected once a year by a qualified technician.
WARNING!
The installation of this luminaire must be validated by a qualified technician before it is used for the first time.

The luminaire should be installed in a location where the public cannot, touch, walk or sit on the luminaire.

Suspending the luminaire and/or installing it high up requires considerable experience, e.g., calculating load, selecting and adapting quality fastening materials, and periodically inspecting the entire installation. Without this skill and knowledge, do not attempt to install this unit by yourself. Improper installation may cause an accident resulting in personal injury or death.

WARNING!
The luminaire should be connected to an electrical source by a qualified electrician.

Before installing the luminaire make sure that the selected installation spot can support at least 10 times the weight of the unit. Connect the luminaire to the power source by the power cord.

DMX channel list

Mode		Value	Function	
34CH	54CH			
1	1		**Pan Movement 8bit:**	
		0-255	Pan Movement	
2	2		**Pan Fine 16bit**	
		0-255	Fine control of Pan movement	
3	3		**Tilt Movement 8bit:**	
		0-255	Tilt Movement	
4	4		**Tilt Fine 16bit**	
		0-255	Fine control of Tilt movement	
5	5		**Speed Pan/Tilt movement：**	
		0-255	max to min speed	
6	6		**Shutter,strobe**	
		0-31	Shutter closed	
		32-63	Shutter open	
		64-95	Strobe effect slow to fast	
		96-127	Shutter open	
		128-159	Pulse-effect in sequences	
		160-191	Shutter open	
		192-223	Random strobe effect slow to fast	
		224-255	Shutter open	

7	7		**Dimmer intensity:**	
		0-255	Intensity0 to 100％	
	8		**Dimmer intensity Fine:**	
		0-255	Dimmer intensity fine	
8	9		**Zoom:**	
		0-255	Zoom adjustment from small to big	
	10		**Zoom Fine:**	
		0-255	Zoom adjustment Fine	
9	11		**Focus:**	
		0-255	Continuous adjustment from near to far	
	12		**Focus Fine:**	
		0-255	Continuous adjustment Fine	
10	13		**Auto Focus:**	
		0-51	Auto Focus Off	
		52-102	5m	
		103-153	7.5m	
		154-204	10m	
		205-255	15m	
11	14		**Auto Focus Fine:**	
		0-255	Continuous adjustment Fine	

12	15		**Color Wheel:**	
		0-15	Open	
		16-22	Open/Color1	
		23-29	Color1	
		30-36	Color1/Color2	
		37-43	Color2	
		44-50	Color2/Color3	
		51-57	Color3	
		58-64	Color3/Color4	
		65-71	Color4	
		72-78	Color4/Color5	
		79-85	Color5	
		86-92	Color5/Color6	
		93-99	Color6	
		100-106	Color6/Color7	
		107-113	Color7	
		114-120	Color7/Open	
		121-127	Open	
		128-189	Forwards rainbow effect from fast to slow	
		190-193	No rotation	
		194-255	Backwards rainbow effect from slow to fast	

	16		**Color Wheel Fine:**	
		0-255	Color Wheel colour change to any position Fine	
13	17		**Cyan Color:**	
		0-255	Cyan (0-white,255-100% Cyan)	
	18		**Cyan Color Fine:**	
		0-255	Cyan Fine	
14	19		**Magenta Color:**	
		0-255	Magenta (0-white,255-100% Magenta)	
	20		**Magenta Color Fine:**	
		0-255	Magenta Fine	
15	21		**Yellow Color:**	
		0-255	Yellow (0-white,255-100% Yellow)	
	22		**Yellow Color Fine:**	
		0-255	Yellow Fine	

16	23		**CTO Color:**	
		0-255	CTO (0-white,255-100% CTO)	
	24		**CTO Color Fine:**	
		0-255	CTO Fine	
17	25		**Rotating gobos,cont.rotation 1:**	
		0-21	Open	
		22-35	Rot.gobo1	
		36-49	Rot.gobo2	
		50-63	Rot.gobo3	
		64-77	Rot.gobo4	
		78-91	Rot.gobo5	
		92-105	Rot.gobo6	
		106-119	Gobo 1 shake slow to fast	
		120-133	Gobo 2 shake slow to fast	
		134-147	Gobo 3 shake slow to fast	
		148-161	Gobo 4 shake slow to fast	
		162-175	Gobo 5 shake slow to fast	
		176-189	Gobo 6 shake slow to fast	
		190-221	Gobo wheel rotation forwards from fast to slow	
		222-223	No rotation	
		224-225	Gobo wheel rotation backwards from slow to fast	
18	26		**Rotating gobo index,rotating gobo rotation 1:**	
		0-127	Gobo indexing	
		128-189	Forwards gobo rotation from fast to slow	
		190-193	No rotation	
		194-255	Backwards gobo rotation from slow to fast	
	27		**Rotating gobo indexing Fine 1:**	
		0-255	Fine indexing	

			Fixed Gobo 2:	
19	28	0-13	Open	
		14-24	Gobo 1	
		25-35	Gobo 2	
		36-46	Gobo 3	
		47-57	Gobo 4	
		58-68	Gobo 5	
		69-79	Gobo 6	
		80-90	Gobo 7	
		91-101	Gobo 8	
		102-112	Gobo 1 shake slow to fast	
		113-123	Gobo 2 shake slow to fast	
		124-134	Gobo 3 shake slow to fast	
		135-145	Gobo 4 shake slow to fast	
		146-156	Gobo 5 shake slow to fast	
		157-167	Gobo 6 shake slow to fast	
		168-178	Gobo 7 shake slow to fast	
		179-189	Gobo 8 shake slow to fast	
		190-221	Gobo wheel rotation forwards from fast to slow	
		222-223	No rotation	
		224-255	Gobo wheel rotation backwards from slow to fast	

20	29		**Animation wheel:**	
		0-127	Animation indexing	
		128-189	Forwards rotation from fast to slow	
		190-193	No rotation	
		194-255	Backwards rotation from slow to fast	
21	30		**Iris:**	
		0-255	Max.diameter to Min.diameter	
	31		**Iris Fine:**	
		0-255	Iris Fine	
22	32		**Prism:**	
		0-127	Open	
		128-255	Prism	
23	33		**Rotating prism index,rotating prism rotation**	
		0-127	Prism indexing	
		128-189	Forwards prism rotation from fast to slow	
		190-193	No rotation	
		194-255	Backwards prism rotation from slow to fast	
	34		**Rotating prism indexing Fine:**	
		0-255	Fine indexing	
24	35		**Frost:**	
		0-127	Open	
		128-255	Frost	
25	36		**Blade 1A:**	
		0-255	Open to Close	
	37		**Blade 1A Fine:**	
		0-255	Open to Close Fine	
26	38		**Blade 1B:**	
		0-255	Blade 1 Rotation	
	39		**Blade 1B Fine:**	
		0-255	Blade 1 Rotation Fine	
27	40		**Blade 2A:**	
		0-255	Open to Close	

	41		**Blade 2A Fine:**	
		0-255	Open to Close	
28	42		**Blade 2B:**	
		0-255	Blade 2 Rotation	
	43		**Blade 2B Fine:**	
		0-255	Blade 2 Rotation Fine	
29	44		**Blade 3A:**	
		0-255	Open to Close	
	45		**Blade 3A Fine:**	
		0-255	Open to Close	
30	46		**Blade 3B:**	
		0-255	Blade 3 Rotation	
	47		**Blade 3B Fine:**	
		0-255	Blade 3 Rotation Fine	
31	48		**Blade 4A:**	
		0-255	Open to Close	
	49		**Blade 4A Fine:**	
		0-255	Open to Close	
32	50		**Blade 4B:**	
		0-255	Blade 4 Rotation	
	51		**Blade 4B Fine:**	
		0-255	Blade 4 Rotation Fine	
33	52		**All Blade Rotation:**	
		0-255	All Blade Rotation	
	53		**All Blade Rotation Fine:**	
		0-255	All Blade Rotation Fine	

34	54		**Reset、LCD 、Fans**	
		0-9	unused	
		10–19	Display Off	
		20-29	Display On	
		30-39	Display InvertOff	
		40-49	Display InvertOn	
		50-59	Auto fan control mode	
		60-69	High fan control mode	
		70-79	Silent fan control mode	
		80-89	Square Law	
		90-99	Linear	
		100-109	unused	
		110-119	unused	
		120-129	unused	
		130-139	unused	
		140-149	unused	
		150-159	All motor reset	
		160-169	Scan motor reset	
		170-179	Colors motor reset	
		180-189	Gobo motor reset	
		190-199	Other motor reset	
		200-255	unused	

ERROR MESSAGES

When you turn on the 600W LED profile , it will first perform an automatic reset

The display may show "Err channel is XX" indicating there is a problem with one or more of the channels. "XX" represents channel 1, 2, 3, 4, 5 or 6, which contain the testing sensor for positioning. For example, the message, "Err channel is Pan movement", indicates an error in channel 1. If there is an error on channel 1 and channel 3 at the same time, the following error message may appear: "Err channel is Pan movement", "Err channel is Tilt movement". The system will flash twice, and the fixture will generate a second reset. If the error message persists after more than two resets, the channels showing errors will not work properly but the other channels will function normally.

Please contact our company for service and do not attempt to repair the luminaire yourself.

PAN- movement Er
(PAN-yoke movement error): This message will appear after the reset if the yoke's magnetic-indexing circuit malfunctions (failed sensor or magnet missing) or the stepping-motor is defective (also caused by its driving IC on the main PCB). The PAN- movement does not return to the default position after the reset.

TILT- movement Er
(TILT-head movement error): This message will appear after the reset if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (also caused by its driving IC on the main PCB). The TILT- movement does not return to the default position after the reset.

Technical parameter

Optics
Lamp: 600W White LED
CT: 8000K/6500K
Life: 20,000H
CRI：≥74 or:≥ 90

Power
Max power consumption: 850W Pf ≥0.98
Power supply: Electronic auto-ranging
Input voltage range: 100–240V, 50-60Hz

Movement
Pan movement: 540°/630°optional (16bit)
Tilt movement: 270° (16 bit)
Advanced motion system: auto repositioning,fast, quiet and smooth

Colors
CMY color mixing
CTO linear
CT1: 2700K~8000K CT2: 2700K~6500K
1 Color wheel: 7 dichroic filters +open

Gobos
1 Rotating gobo wheel: 6 interchangeable +open
1 Static gobo wheel: 7 + open

Features
Rotating prism: 5-facet prism
Focus : motorized focus
Shutter: electronic, variable from 1-25Hz or random
Dimming: 0-100% linear dimming
Frost: 0-100% linear adjustment
Zoom: 7°-42° linear zoom
Animation wheel: special dynamic flame or water effect, etc
Framing system: with 8 independent blades, full field travel with the ability to create different shapes Rotation of ±45°

Display
LCD display with battery operated for
fast addressing
15 second standby auto lock
Pan/ Tilt disengage (hold MENU and ENTER button)

Software
7 built-in program (optional)
Upgrades: fast and convenient using
uploaded over DMX
Remote reset DMX address, fixture reset,
sound control by DMX
Run time of LED engine and fixture
2 Control channel modes: 34/54 channels
Other Specification
Input signal isolation
Optional installed wireless receiver
Optional ArtNET control
RDM compatible

Dimensions and weight
Body size: 290x390x740mm
Net weight:30kg

Illumination

13°
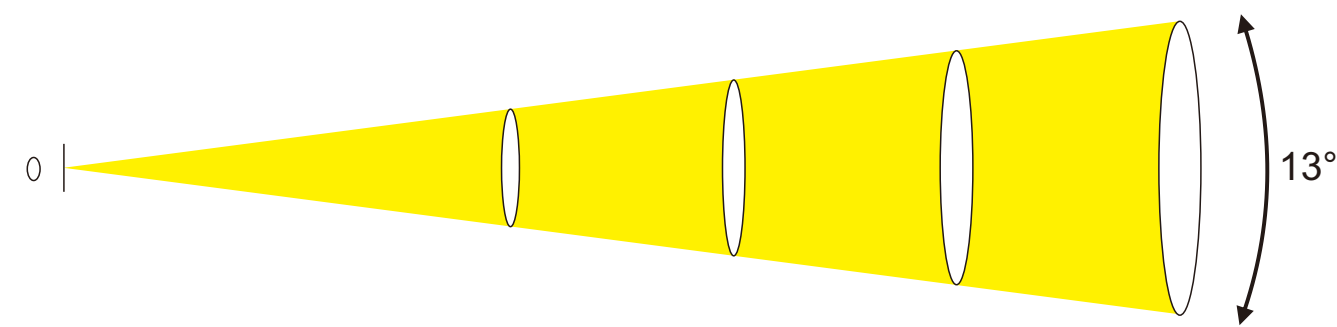
illumination	19347LM	12000LM	2747LM	2000LM
Spot Diameter	⌀1.1m	⌀2.3m	⌀3.17m	⌀4.6m
optical range	5m	10m	15m	20m

Low Ra：	5m	Ra: 74.2	spot	0.65m	23733LM
	5m		spot	1.1m	19347LM
	5m	Ra: 74.2	spot	3.17m	2747LM
Hight Ra：	5m	Ra: 96	spot	0.65m	22298LM
	5m		spot	1.1m	16026LM
	5m	Ra: 95.9	spot	3.17m	2152LM

Static Gobo Wheel

Rotating Gobo Wheel

Animation Wheel