

STREET LIGHTING
SOLUTIONS
LED ROADWAY LIGHTING



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Andrey Saramud
SEO of AMIRA JSC

JSC AMIRA more over than 25 years are leading in the industry of design, engineering and installation of:

- modern lighting systems (lighting poles and masts, lamps and spotlights),
- lightning protection,
- radio masts and cellular communication poles,
- flagpoles,
- towers of overhead electric lines
- etc.

AMIRA's production capacity includes 3 plants in St-Petersburg and Leningrad region, own design office and company spacializing on design and installation (Petrosvet Ltd).

JSC AMIRA is in the register of reliable partners for business of Russia and abroad of Russian Chamber of Commerce and Industry.

JSC AMIRA possesses an international Certificate of quality management system compliance with the regulations of the ISO standard 9001:2015.

Products by JSC AMIRA are successfully operates in all regions in Russia. Even in Russian Arctic zone and earthquake-prone areas. Also, the company's products are installed in Europe, CIS countries.

The company closely cooperates with leading Russian and foreign manufacturers Osram, Philips, GE, Thorn, Siteco, Schneider Electric, ELT, VS, TECNOPALI, AL-BABTAIN, Schreder, TIME SYSTEMS, etc. and uses their products in their projects.

Among our clients are: Administrations of city illumination in Russia and near abroad countries, The Ministry of Defense of the Russian Federation, Gazprom, Russian Railways, Road Service, Bashneft, Lukoil, Rosneft, Novatek, GSM Megaphone, «The Moscow Railway», SHELL, Neste, etc.

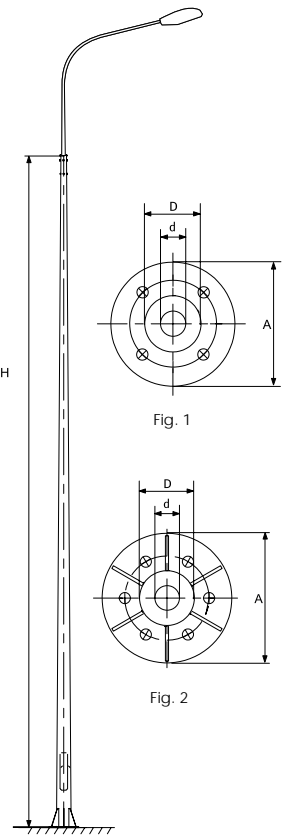
In 2019, the company became the exclusive supplier of GigaTera led lights and spotlights.

In 2018 we made the highest flagpole in Europe. The 100-meter flagpole in Hamina.

OKK

CONICAL CIRCULAR
POLES

DIMENSIONS



THE POLE HEIGHT IS FROM 3m TO 12m

- Easy installation and maintenance
- Aesthetic appearance and the ability to install additional equipment
- High corrosion resistance of the coating, even for marine climate
- Long service life
- Possibility of manufacturing according to individual parameters and colors in any color according to the RAL table
- Possibility of installation and service from the manufacturer

APPLICATION

Lighting of highways, traffic intersections, bridges, squares, courtyards, parks, parking lots, etc.

SPECIFICATIONS

Examples of typical versions of OKK series

Model	Weight, m	Height, H	Top diameter, d	Bottom diameter, D	Pole flange diameter, A	Hole center distance, B
OKK-3	25.7kg	3m	60mm	92mm	240mm	160mm
OKK-4	35.2kg	4m	60mm	103mm	240mm	160mm
OKK-5	45.9kg	5m	60mm	114mm	300mm	200mm
OKK-5	94kg	5m	128mm	193mm	450mm	320mm
OKK-6	57.6kg	6m	60mm	125mm	300mm	200mm
OKK-6	78.5kg	6m	76mm	154mm	370mm	240mm
OKK-6	113kg	6m	128mm	206mm	450mm	320mm
OKK-7	75.6kg	7m	60mm	136mm	370mm	240mm
OKK-7	93.8kg	7m	76mm	167mm	370mm	240mm
OKK-7	133.6kg	7m	128mm	219mm	450mm	320mm
OKK-8	91.6kg	8m	60mm	146mm	370mm	240mm
OKK-8	116kg	8m	76mm	180mm	450mm	320mm
OKK-8	156.7kg	8m	128mm	232mm	470mm	340mm
OKK-9	106.5kg	9m	60mm	157mm	370mm	240mm
OKK-9	134kg	9m	76mm	193mm	450mm	320mm
OKK-9	179.7kg	9m	128mm	245mm	470mm	340mm
OKK-10	122.3kg	10m	60mm	168mm	370mm	240mm
OKK-10	153.2kg	10m	76mm	206mm	450mm	320mm
OKK-10	204kg	10m	128mm	258mm	470mm	340mm
OKK-11	144.9kg	11m	60mm	179mm	450mm	320mm
OKK-11	173.8kg	11m	76mm	219mm	450mm	320mm
OKK-12	161.7kg	12m	60mm	188mm	450mm	320mm
OKK-12	196kg	12m	76mm	232mm	470mm	340mm

Body	Sheet steel. The pole is made by a method of bending
Cover	Hot galvanizing (ISO 1461). The guarantee for corrosion resistance makes at least 25 years.
Finish	Paintwork by the RAL table
Wind District	up I to VII
Climatik version	I ₂ , II ₄



Innovative Center SKOLKOVO

Installation:
conical circular poles

OGK

OCTAGONAL
CONICAL POLES

THE POLE HEIGHT IS FROM 3m TO 16m

- Easy installation and maintenance
- Aesthetic appearance and the ability to install additional equipment
- High corrosion resistance of the coating, even for marine climate
- Long service life
- Possibility of manufacturing according to individual parameters and colors in any color according to the RAL table
- Possibility of installation and service from the manufacturer

APPLICATION

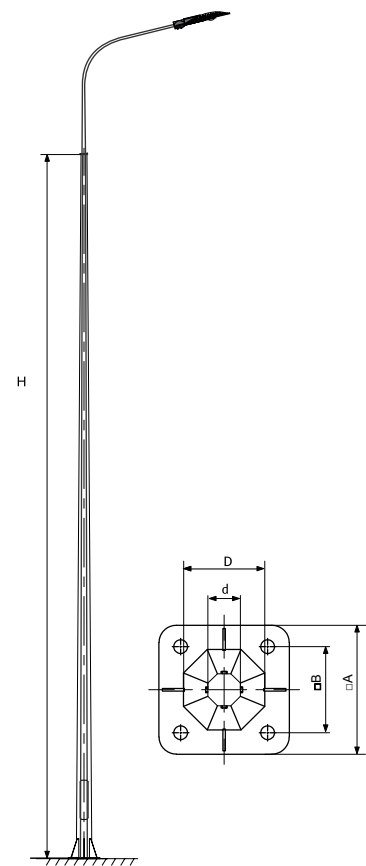
Lighting of highways, traffic intersections, bridges, squares, courtyards, parks, parking lots, etc.

SPECIFICATIONS

Examples of typical versions of OGK series

Model	Weight, m	Height, H	Top diam-eter, d	Bottom di-iameter, D	Pole flange diameter, A	Hole center distance, B
OGK-3	24.5kg	3m	60mm	132mm	245mm	160mm
OGK-4	33.3kg	4m	60mm	136mm	245mm	160mm
OGK-5	40.6kg	5m	60mm	136mm	245mm	160mm
OGK-6	47.9kg	6m	60mm	136mm	245mm	160mm
OGK-7	67.5kg	7m	68mm	150mm	295mm	200mm
OGK-7	69.4kg	7m	68mm	150mm	295mm	200mm
OGK-8	91.1kg	8m	68mm	166mm	395mm	300mm
OGK-9	97.2kg	9m	68mm	166mm	395mm	300mm
OGK-10	136.7kg	10m	68mm	166mm	395mm	300mm
OGK-10	152kg	10m	75mm	190mm	395mm	300mm
OGK-10	175kg	10m	100mm	210mm	395mm	300mm
OGK-12	180.8kg	12m	72mm	200mm	395mm	300mm
OGK-16	368.4kg	16m	90mm	300mm	495mm	400mm

DIMENSIONS



- Body
Sheet steel.
The pole is made by a method of bending
- Cover
Hot galvanizing (ISO 1461). The guarantee for corrosion resistance makes at least 25 years.
- Finish
Paintwork by the RAL table
- Wind District
up I to VII
- Climatik version
I₂, II₄



Stadium «Rostov Arena»
Rostov-on-Don, FIFA World Cup 2018

Installation:
octagonal conical lighting poles

OKKLI

CONICAL CIRCULAR BENT POLE

THE POLE HEIGHT IS FROM 6m to 9m

- Easy installation and maintenance
- Aesthetic appearance and the ability to install additional equipment
- High corrosion resistance of the coating, even for marine climate
- Long service life
- Possibility of manufacturing according to individual parameters and colors in any color according to the RAL table
- Possibility of installation and service from the manufacturer

APPLICATION

Lighting of highways, streets, avenues, squares, parks, squares, pedestrian zones, etc.

SPECIFICATIONS

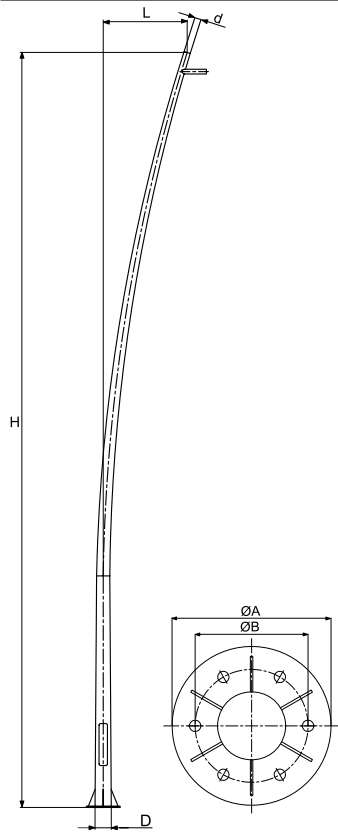
Examples of typical versions of OKKLI series

Model	Weight, m	Height, H	Console Length, L	Pole flange diameter, A	Hole center distance, B
OKKLI - 6	61kg	6m	0,8m	300mm	200m
OKKLI - 8	87kg	8m	1m	370mm	270m
OKKLI -9	134kg	9m	1m	450mm	320m

The table is for reference only. When placing an order, specify in the commercial units of the AMIRA group of companies the possibility of manufacturing equipment taking into account your wind region

Body	Sheet steel. The pole is made by a method of bending
Cover	Hot galvanizing (ISO 1461). The guarantee for corrosion resistance makes at least 25 years.
Finish	Paintwork by the RAL table
Wind District	up I to IV
Climatik version	I ₂ , II ₄

DIMENSIONS



Road to International Airport Ivanovo, Russia



Festival Boulevard (Reconstructed for 2018 World Cup)
Kazan, Russia

Installation:
conical circular bent lighting poles

OGKS

OCTAGONAL CONICAL
FOLDING POLE

CONVENIENT FOLDING MECHANISM

- The possibility of safe maintenance of lighting devices without the involvement of special equipment, at ground level
- High corrosion resistance of the coating, even for marine climate
- Long service life
- Possibility of manufacturing according to individual parameters and colors in any color according to the RAL table
- Possibility of installation and service from the manufacturer

APPLICATION

Installation in places that are difficult to access for installation and maintenance for lighting sports grounds, ski slopes, residential areas, alleys, etc.

SPECIFICATIONS

Examples of typical designs of poles OGKS series. Poles dimensions may vary, from customer specification

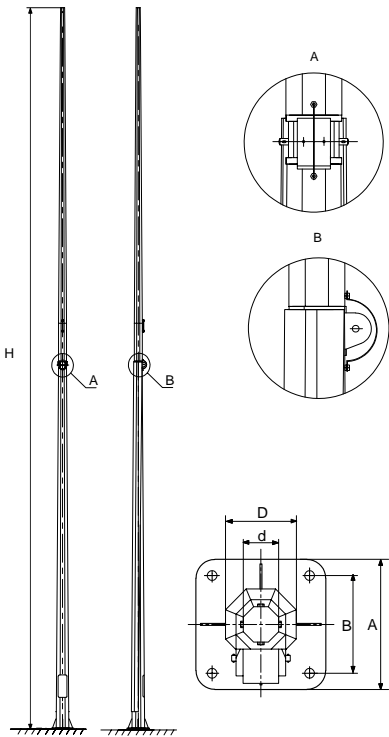
Model	Typ	Height, H	Top diameter, D	Bottom diameter, D	Pole flange diameter, A	Hole center distance, B	Foundation embedded element
OGKS-3	2	41,8kg	3m	60mm	136mm	295mm	FE 0,133
OGKS-4	2	49,9kg	4m	60mm	136mm	295mm	FE 0,133
OGKS-5	2	57,4kg	5m	60mm	136mm	295mm	FE 0,133
OGKS-6	2	65kg	6m	60mm	136mm	295mm	FE 0,133
OGKS-7	2	84,3kg	7m	68mm	166mm	295mm	FE 0,159
OGKS-8	2	156,8kg	8m	68mm	166mm	395mm	FE 0,159
OGKS-9	2	169,7kg	9m	68mm	166mm	395mm	FE 0,159
OGKS-10	2	191,9kg	10m	68mm	166mm	395mm	FE 0,159
OGKS-7,5	1	130kg	7,5m	76mm	180mm	395mm	FE 0,219
OGKS-10,5	1	243,4kg	10,5m	90mm	180mm	395mm	FE 0,219
OGKS-12	1	325,4kg	12m	100mm	225mm	395mm	FE 0,219
OGKS-14	1	535kg	14m	90mm	280mm	495mm	FE 0,273
OGKS-16	1	640,5kg	16m	90mm	280mm	495mm	FE 0,273
OGKS-18	1	746kg	18m	93mm	275mm	495mm	FE 0,325
OGKS-20	1	819,4kg	20m	88mm	300mm	550mm	FE 0,325
OGKS-25	1	1331kg	25m	124mm	456mm	660mm	FE 0,325

The table is for reference only. When placing an order, specify in the commercial units of the AMIRA group of companies the possibility of manufacturing equipment taking into account your wind region

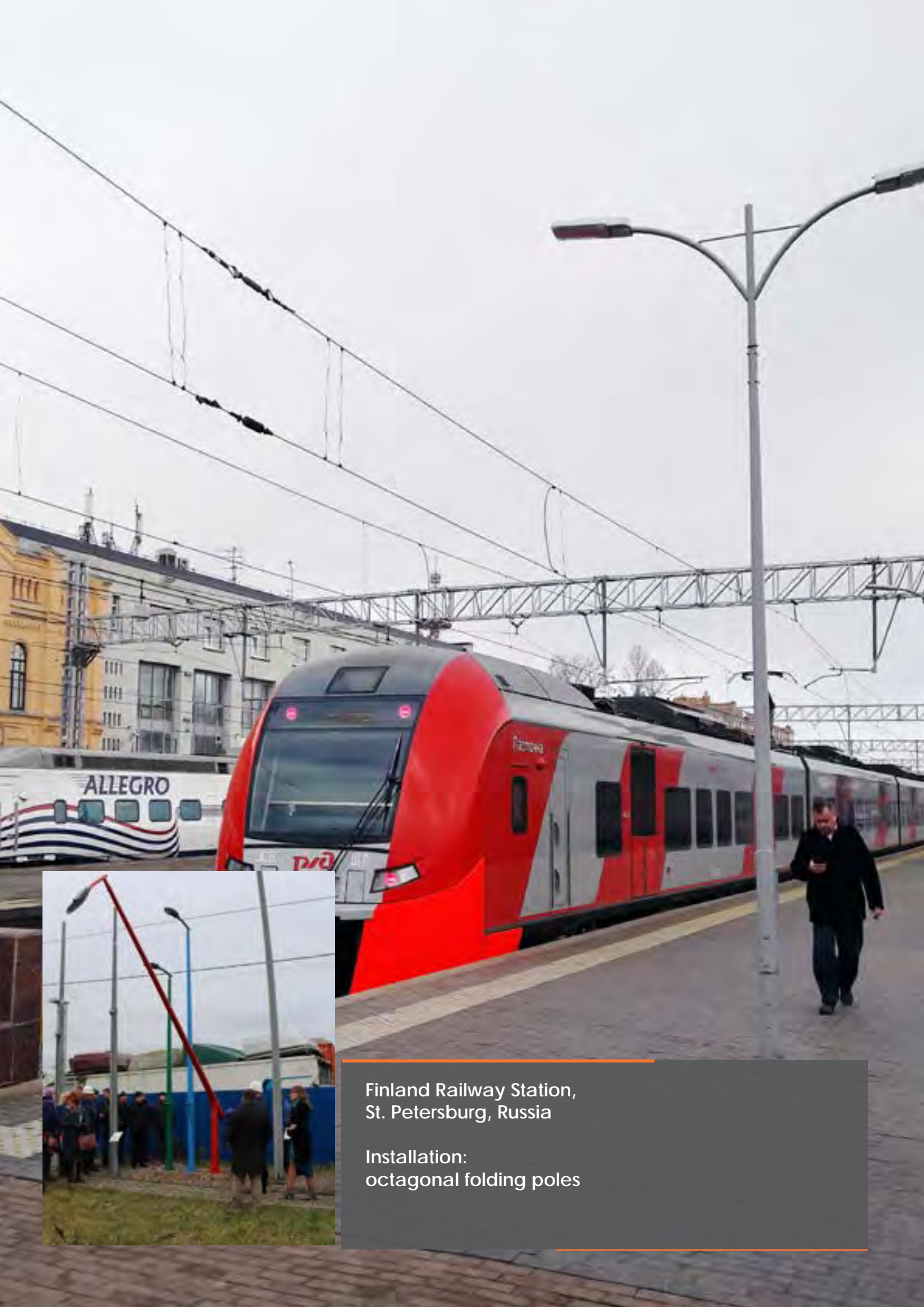
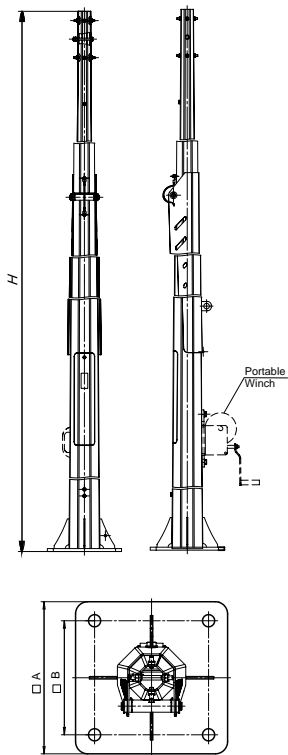
Body	Sheet steel. The pole is made by a method of bending	Wind District	up I to IV
Cover	Hot galvanizing (ISO 1461). The guarantee for corrosion resistance makes at least 25 years.	Climatik version	I ₂ , II ₄
Finish	Paintwork by the RAL table	Mechanism	Power lock. A special hand tool is used for tilting.

DIMENSIONS

TYPE 1



TYPE 2



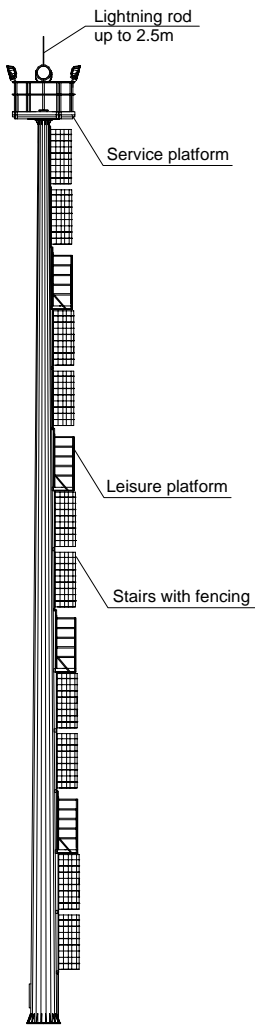
Finland Railway Station,
St. Petersburg, Russia

Installation:
octagonal folding poles

VMON

High lighting pole with stationary crown with spotlights

DIMENSIONS



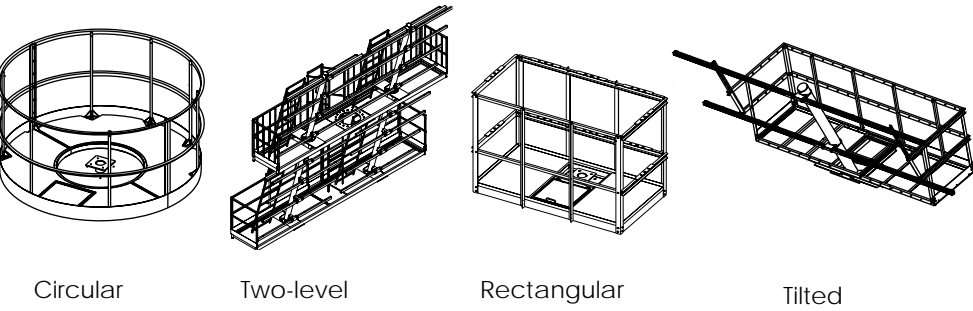
THE HEIGHT IS UP TO 50M

- Easy installation and maintenance
- High corrosion resistance of the coating, even for marine climate
- Long service life
- Possibility of manufacturing according to individual parameters and colors in any color according to the RAL table
- Possibility of installation and service from the manufacturer
- Types of VMON series: with stairs; without stairs (serviced by a hydraulic lift); with a ladder without a fence with a safety rope

APPLICATION

Lighting for sports facilities, large open spaces, industrial areas with limited access for maintenance of lighting installations, warehouses, airports, ports.

TYPES OF SERVICE PLATFORMS



SPECIFICATIONS

Examples of typical designs of poles VMON series. Poles dimensions may vary from customer specification

Model	Weight, m	Height, H	Bottom diameter, D	Pole flange diameter, A	Hole center distance, B	Sections Qty, K
VMON-16	555 ~ 1103kg	16m	400 ~ 785mm	580 ~ 820mm	490 ~ 720mm	2 шт.
VMON-20	827 ~ 2132kg	20m	525 ~ 850mm	750 ~ 1130mm	650 ~ 1020mm	2 шт.
VMON-25	1570 ~ 2660kg	25m	480 ~ 770mm	700 ~ 1095mm	600 ~ 960mm	3 шт.
VMON-30	2420 ~ 3990kg	30m	770 ~ 870mm	1000 ~ 1130mm	890 ~ 1020mm	3 шт.
VMON-35	2835 ~ 7517kg	35m	820 ~ 1145mm	1100 ~ 1400mm	990 ~ 1270mm	4 шт.
VMON-40	2987 ~ 6380kg	40m	860 ~ 1270mm	1100 ~ 1530mm	990 ~ 1400mm	4 шт.
VMON-45	5780kg	45m	1000mm	1300mm	1150mm	4 шт.
VMON-50	6780 ~ 8785kg	50m	1150 ~ 1250mm	1450 ~ 1500mm	1290 ~ 1370mm	4 шт.

Body	Sheet steel. The pole is made by a method of bending	Wind district	up I to VII
Cover	Hot galvanizing (ISO 1461). The guarantee for corrosion resistance makes at least 25 years.	Climatik version	I ₂ , II ₄
Finish	Paintwork by the RAL table		

The table is for reference only. When placing an order, specify in the commercial units of the AMIRA group of companies the possibility of manufacturing equipment taking into account your wind region



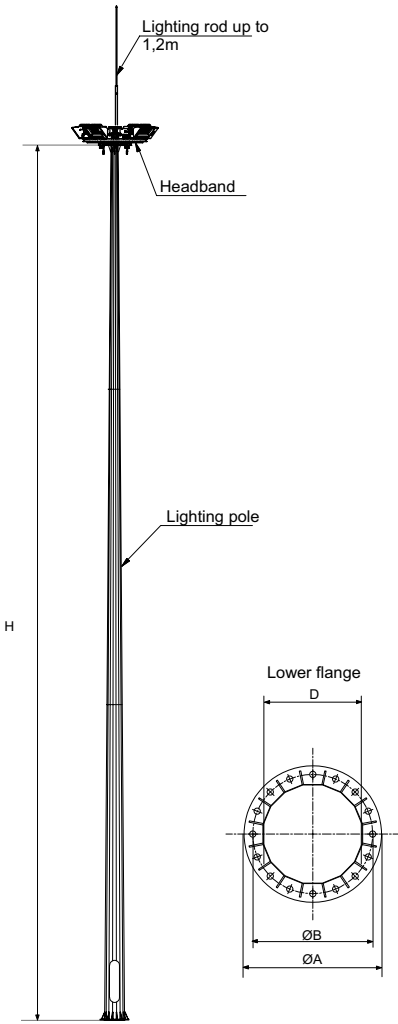
Tyumen Regional Winter Sports Center «Pearl of Siberia». Final stage of the Biathlon World Cup, 2017

Installation: lighting masts with stationary crown

VMO

High lighting pole with mobile crown with spotlights

DIMENSIONS



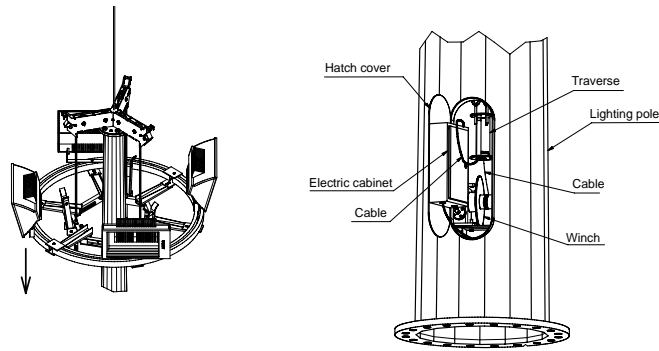
THE HEIGHT IS UP TO 50M

- Easy installation and maintenance
- Safety of service due to the mechanism of lowering and raising the mobile crown
- No special maintenance equipment required
- High corrosion resistance of the coating, even for marine climate
- Long service life
- Possibility of manufacturing according to individual parameters and colors in any color according to the RAL table
- Possibility of installation and service from the manufacturer

APPLICATION

Lighting for sports facilities, ski slopes, large open spaces, industrial areas with limited access for maintenance of lighting installations, warehouses, airports, ports.

CROWN LOWERING AND LIFTING MECHANISM



SPECIFICATIONS

Examples of typical designs of poles VMO series. Poles' dimensions may vary, from customer specification

Model	Weight, m	Height, H	Bottom diameter, D	Pole flange diameter, A	Hole center distance, B
VMO-16	650 ~ 760kg	16m	450 ~ 600mm	640 ~ 820mm	540 ~ 700mm
VMO-20	715 ~ 1840 kg	20m	500 ~ 950mm	700 ~ 1250mm	600 ~ 1080mm
VMO-25	1129 ~ 2300kg	25m	480 ~ 950mm	750 ~ 1200mm	650 ~ 1080mm
VMO-30	1383 ~ 3785kg	30m	600 ~ 1150mm	800 ~ 1400mm	700 ~ 1290mm
VMO-35	1927 ~ 4460kg	35m	600 ~ 1330mm	820 ~ 1580mm	720 ~ 1450mm
VMO-40	2556 ~ 5354kg	40m	750 ~ 1150mm	950 ~ 1430mm	850 ~ 1290mm
VMO-45	3841 ~ 4768kg	45m	780 ~ 920mm	1040 ~ 1180mm	930 ~ 1060mm
VMO-50**	7800kg	50m	965mm	1280mm	1180mm

The table is for reference only. When placing an order, specify in the commercial units of the AMIRA group of companies the possibility of manufacturing equipment taking into account your wind region

Body	Sheet steel. The pole is made by a method of bending	Wind district	up I to VII
Cover	Hot galvanizing (ISO 1461). The guarantee for corrosion resistance makes at least 25 years.	Climatik version	I ₂ , II ₄
Finish	Paintwork by the RAL table		



Vitebsky Avenue
St. Petersburg, Russia

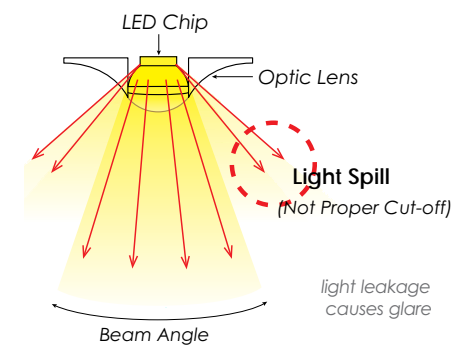
Installation: lighting pole with mobile crown,

BENEFITS OF LED SPORTS LIGHTING by GigaTera

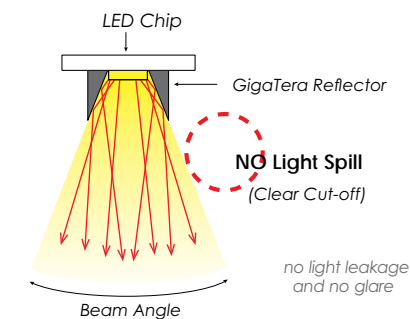
Minimized Glare

Metal halide lighting has a strong light which causes glare. For this reason, it makes it difficult for athletes to secure the optimal view during a competition. GigaTera's SUFA series LED lighting has a structure that features various narrow beam angles applying the reflecting plate method. This minimize the risk of glare caused by light leakage in any stadium and ensures that the athletes can improve their competitiveness and the spectators can enjoy a comfortable viewing experience. We also use an individual reflecting plate for each LED element to make sure the lights remain separated without converging and minimize the phenomenon whereby a flying ball becomes invisible in the light. Our products are thus completely optimized for sports events.

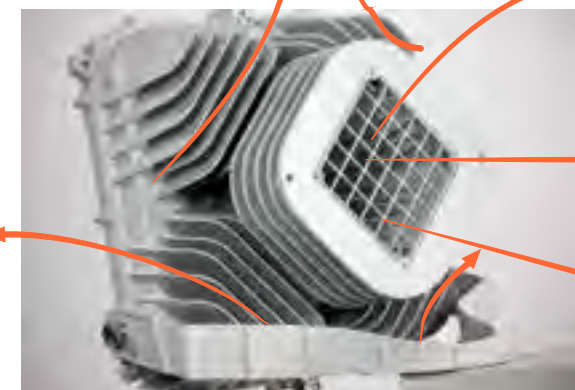
The lens method used by other companies



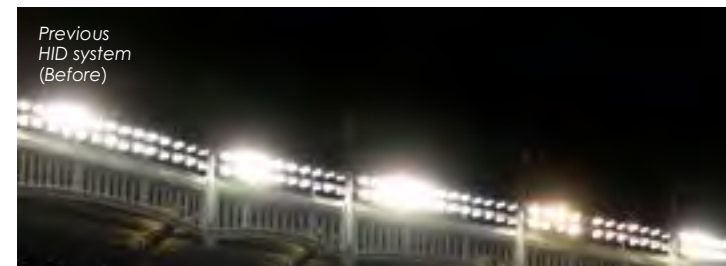
GigaTera SUFA series reflecting plate method



Cooling Technology



GigaTera's SUFA series sports lighting is designed with cooling fins with various structures, in horizontal/vertical directions. Using our structural design technology, we have adopted a natural convection method rather than a forced circulation method, and this solved the heat problem that has been a vulnerability of high power sports lighting. For LED lighting, effective heat management is directly correlated to the product life and therefore cooling technology is one of the most important technological resources



In the installation project cases, we can observe that conventional lighting using the HID method exhibits strong glares and partially stronger areas of light, making it impossible to see the flagpole and other structures. Once these lights were replaced with GigaTera's sports lighting products, the lights were produced in subdivided precision, thereby reducing the light deviation and minimizing glare. The result is that the flagpole and structures are far more clearly visible than they were in the previous lighting.

SET SETA

HIGH EFFICIENCY 135 lm/W

- Wireless Lighting Control
- Built-in 20kV Surge Protection Device

APPLICATION

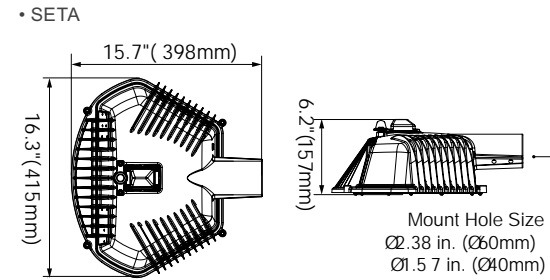
Industry complexes, Business parks, Local-ways, Alley-ways

SPECIFICATIONS

Model	Power	Luminous Efficacy	Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SET 100	100W	135 lm/W	13 500 lm	5000 / 3 000 / 4 000 / 5 700 K	80Ra	4,5 kg	AC100 ~ 277 V AC100 ~ 240	- 30°C ~60°C
SET 080	80W	135 lm/W	10 800 lm		80Ra	4,5 kg		

Body	Cast Aluminium	Mounting Option	Horizontal Tenon Mount
Cover	Tempered Glass 3.2T (Clear)	Light Distribution	Type II-S
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

DIMENSIONS



MT META

HIGH EFFICIENCY 140 lm/W

- Excellent Light Distribution and Uniformity
- Wireless Lighting Control
- Built-in 20kV Surge Protection Device

APPLICATION

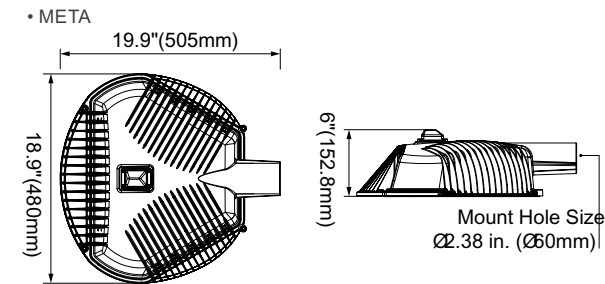
Expressways, Highways, Roadways, streets

SPECIFICATIONS

Model	Power	Luminous Efficacy	Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
MT 200	200W	140 lm/W	28 000 lm	5000 / 3 000 / 4 000 / 5 700 K	80Ra	7,9 kg	AC100 ~ 277 V AC100 ~ 240 V AC347 ~ 480 V	- 30°C ~60°C
MT 180	180W	140 lm/W	25 200 lm		80Ra	7,9 kg		
MT 150	150W	140 lm/W	21 000 lm		80Ra	7,9 kg		
MT 130	130W	450 lm/W	18 200 lm		80Ra	7,9 kg		

Body	Cast Aluminium	Mounting Option	Horizontal Tenon Mount
Cover	Tempered Glass 3.2T (Clear)	Light Distribution	Type III-S
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

DIMENSIONS



SFM SUFA-M

TILT AND ROTATE FOR EASY AIMING
AND OPTIMIZED UNIFORMITY

- Excellent cooling structure design increases heat dissipation
- High CRI & R9 for better visibility
- Wired event lighting
- Color Tunable (4000 K ~ 5 700 K)

APPLICATION

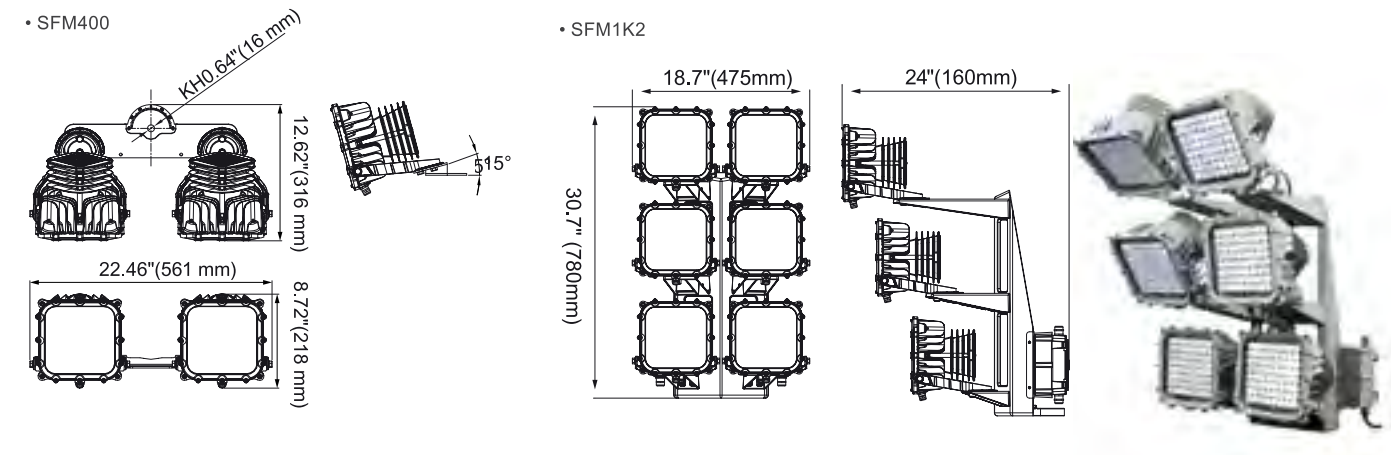
Sports stadiums, Indoor Venues

SPECIFICATIONS

Model	Power	Luminous Efficacy	Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFM 1K2	1200W (200W× 6)	100 lm/W 105 lm/W 115 lm/W	120 000 lm 126 000 lm 138 000 lm	5000 / 3 000 / 4 000 / 5 700 K	90 Ra 80 Ra 70 Ra	21,0 kg	DC100V (RED)	- 30°C ~55°C
SFM 400	400W	100 lm/W 105 lm/W 115 lm/W	42 000 lm 44 000 lm 46 000 lm		90 Ra 80 Ra 70 Ra	8,0 kg	DC100V (Power box)	
SFM 400 Warm / Cool	400W	90 lm/W 95 lm/W 90 lm/W	36 000 lm 38 000 lm 36 000 lm	4 000 K 5 000 K 5 700 K	80 Ra	8,0 kg	DC100V (W/C Power box)	
		90 lm/W 95 lm/W 90 lm/W	36 000 lm 38 000 lm 36 000 lm	4 000 K 5 000 K 5 700 K	90 Ra			
		90 lm/W 95 lm/W 90 lm/W	36 000 lm 38 000 lm 36 000 lm	4 000 K 5 000 K 5 700 K	90 Ra			

Body	Cast Aluminium	Light Distribution	15 ° / 30 ° / 45 °
Cover	Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof	Control System	Wired (RS-485)
Finish	Powder Coating		

DIMENSIONS



SFH SUFA-H

HIGH QUALITY SPORTS STADIUM LIGHTING

- No glare from Narrow beam reflector
- 1,000 fps flicker free super slow-motion (SSM)
- High CRI & R9 Content better visibility
- Wired dimming controls
- Various module combination available
(1K2 : 600W x 2ea / 1K2 : 300W x 4ea/ 600W : 300W x 2ea)



APPLICATION

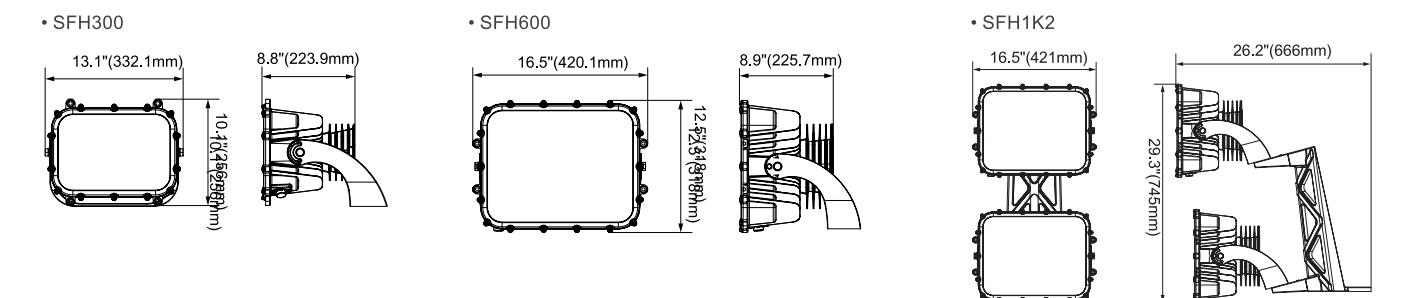
Sports Complex, Football Stadium, Soccer Stadium, Tennis Court, Indoor Arenas

SPECIFICATIONS

Model	Power	Luminous Efficacy	Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFH 1K2	1200W (600W x 2)	100 lm/W 105 lm/W	120 000 lm 126 000 lm	5000 / 3 000 / 4 000 / 5 700 K	80 Ra 70 Ra	26,0 kg	DC100V (RED)	- 30°C ~55°C
SFH 600	600W	100 lm/W 105 lm/W	60 000 lm 63 000 lm		80 Ra 70 Ra	13,0 kg		

Body	Cast Aluminium	Light Distribution	15 ° / 20 ° / 30 °
Cover	Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof	Control System	Wired (RS-485)
Finish	Powder Coating		

DIMENSIONS



SFA SUFA-A

SPECTACULAR SPOSRTS LIGHTING COMES WITH HIGH EFFICACY AND LESS GLARE OPTIC TECHNOLOGY

- No glare from Narrow beam reflector
- Flicker free 1,000 fps ultra slow-motion
- High CRI & R9 for better visibility
- Tilt and rotate for easy aiming
- Wired event lighting control system

APPLICATION

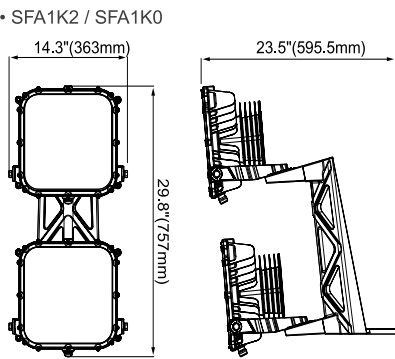
Sports stadiums, Indoor venues, Ports

SPECIFICATIONS

Model	Power	Luminous Efficacy	Luminous Flux	Color Temper-ature	CRI	Weight	Input Voltage	Operation Temperature
SFA 1K2	1200W (600Wx2)	105 lm/W 115 lm/W 125 lm/W	126 000 lm 138 000 lm 150 000 lm	5000 / 3 000 / 4 000 / 5 700 K	90 Ra 80 Ra 70 Ra	18,0 kg (vertical type) 21.0 kg (horizontal type)	DC100V	- 30°C ~55°C
SFA 800	800W	105 lm/W 115 lm/W 125 lm/W	84 000 lm 92 000 lm 100 000 lm		90 Ra 80 Ra 70 Ra	13,0 kg r	DC200V	

Body	Cast Aluminium	Light Distribution	15° / 30° / 45°
Cover	Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof	Control System	Wired (RS-485), Wireless(only 800W)
Finish	Powder Coating		

DIMENSIONS



Gangneung «Oval», Olympic Stadium, Gangneung Korea

SMA SUMA

diffused light no light pollution

EXCELLENT LIGHT DISTRIBUTION EVEN AT LONG DISTANCE

- High luminous efficacy 125 lm/W
- Tilting structure for optimized aiming (Upward: 10°, Downward 20°)
- Wired/Wireless dimming controls
- Outstanding cooling technology and durability

APPLICATION

Harbour, Airport aprons, Airplane hangars, Container terminals, Sporting facilities, Parking lots

SPACIFICATIONS

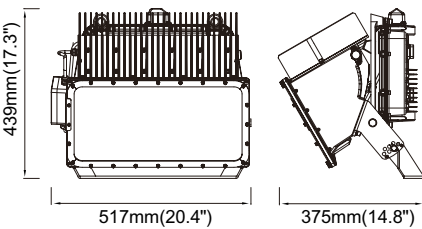
Driver Type	Model	Power	Luminous Efficacy	Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
built-in	SMA 600	600W	125 lm/W	75 000 lm	5000K (3000K, 4000K available)	70Ra	19,3 kg	AC200 ~ 277 V AC347 ~ 480 V	- 30 °C ~ +55 °C * possible arctic version -55 °C (up to -61.1 °C, with cold start up to -55 °C)
built-in	SMA 400	400W	125 lm/W	50 000 lm		70Ra	18,6 kg		
remote	SMA 600	600W	125 lm/W	75 000 lm		70Ra	13,5 kg	DC100V (RED)	
remote	SMA 400	400W	125 lm/W	50 000 lm		70Ra	12,5 kg		

Body	Cast Aluminium	Mounting Option	Swivel Bracket
Cover	Tempered Glass 3.2T (Clear)	Light Distribution	Asymmetric Wide
Finish	Powder Coating	Control System	Remote Type: Wired (RS-485, DMX512) / Built-in Type: Wireless, NEMA-7

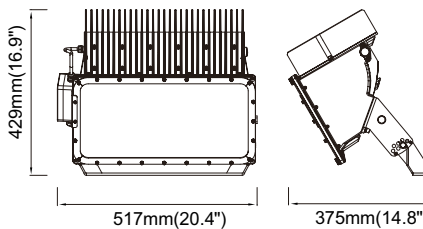
DIMENSIONS

• SMA600

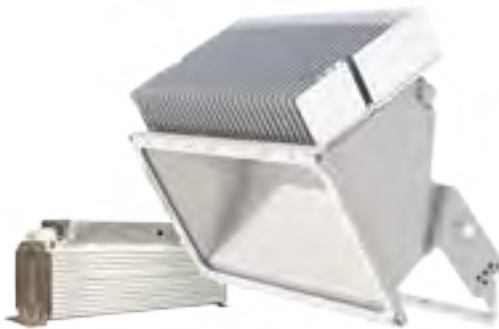
[Built-in Driver type]



[Remote Driver type]



SMA600 (Built-in driver type)



SMA600 (Remote driver type)

MA MAHA

UNRIVALED EFFICACY 145 LM/W

- Replacement for HID flood light
- Outstanding cooling technology and durability
- High-power LED light with middle power LED chips and reflector technology
- Excellent light distribution and thermal design for natural convection
- Dimming control using wireless

APPLICATION

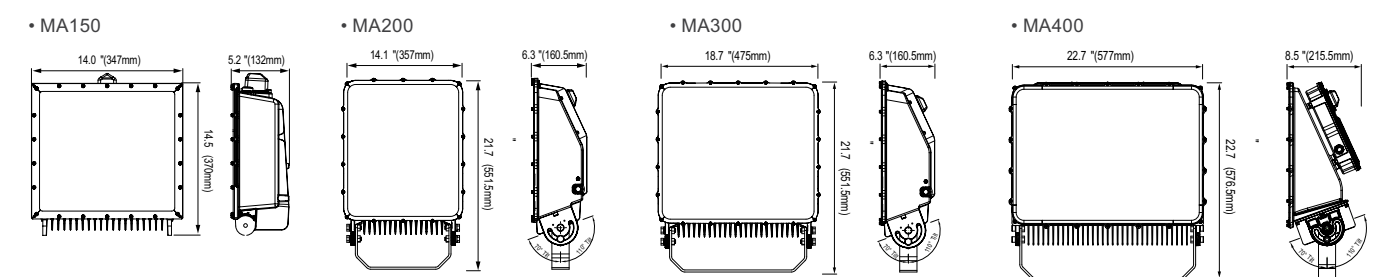
Sporting facilities, Airplane hangars, Airport aprons, Parking lots, Harbour, Yard

SPECIFICATIONS

Model	Power	Luminous Efficacy	Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
MA 300	300W	145 lm/W	43 500 lm	5000 / 3 000 / 4 000 / 5 700 K	80 Ra	15,0 kg	AC100 ~ 240V AC100 ~ 277V AC347 ~ 480V	- 30 °C ~ +55 °C * possible arctic version -55 °C (up to -61.1 °C, with cold start up to -55 °C)

Body	Cast Aluminium	Mounting Option	Swivel Bracket / Pole Mount Bracket
Cover	Tempered Glass 3.2T (Clear)	Light Distribution	Asymmetric Wide
Finish	Powder Coating	Control System	Wireless (ZigBee) / Receptacle

DIMENSIONS



RED REMOTE DRIVER

DISTANCE BETWEEN LUMINAIRE AND REMOTE DRIVER IS UP TO 50 M

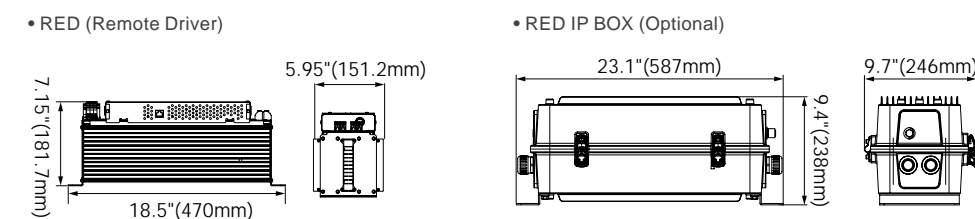
APPLICATION PRODUCTS

SUFA-H, SUFA-M, SUFA-A, MAHA-PLUS, SUMA

SPECIFICATIONS

Model	Power	Input Voltage	Output Voltage	Input Current	Output Rated Current	Weight
RED 1K2	1300W	AC220 ~ 277V AC200 ~ 240V AC347 ~ 480V	Typ. DC100V	Max. 7,6 (@220Vac) Max. 4.4 (@ 347Vac)	Max.6,5 A x 2EA	13,0 kg
RED 1K0	1100W			Max. 6,3 (@200Vac) Max. 3.7 (@347Vac)	Max.5,5 A x 2EA	13,0 kg
RED 600	650W			Max. 3,8 (@200Vac) Max. 2,2 (@347Vac)	Max.6,5 A	10,0 kg

DIMENSIONS



BLU REMOTE DRIVER

- The output voltage of Remote Driver is DC48V when the distance of the luminaires is less 5.0m, DC190V when over 5.0m
- Distance between luminaire and Remote driver is up to 70m

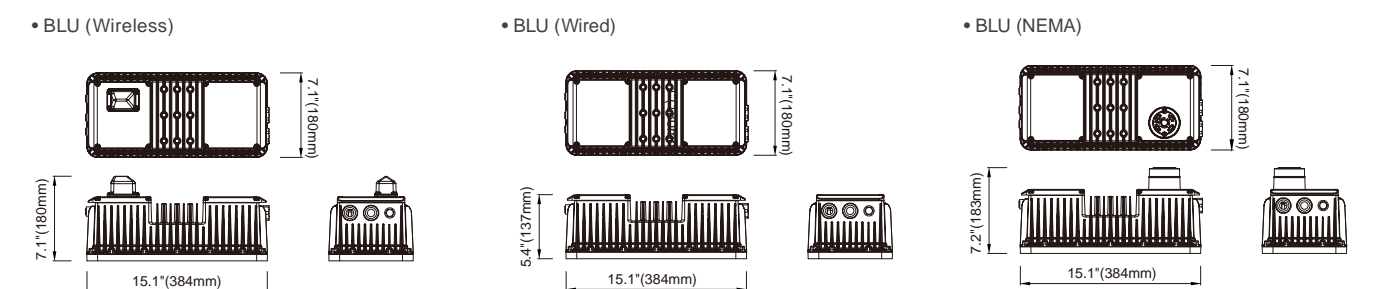
APPLICATION PRODUCTS

SUFA, SUMA

SPECIFICATIONS

Model	Power	Input Voltage	Output Voltage	Input Current	Output Rated Current	Weight
BLU 800	855W	AC220 ~ 277V AC347 ~ 480V	200V	Max.5,0 (@200Vac) Max.2.9 (@347Vac)	Max 4,5A	10,0 kg
	1000W			Max.6,0 (@200Vac) Max.3.4 (@347Vac)	Max 5,5A	10,0 kg

DIMENSIONS



Nowadays, lighting is not merely about the traditional concept of “lighting up darkness.” but about controlling the intensity of lighting automatically based on the movement of people or objects, traffic, and sunshine.

There are similar requirements for the control system to save energy. In the past, simple power saving was good enough, but there is an increasing demand for a new control system considering the economical impact for energy consumption and maintenance costs to extend the system easily as well as the environmental aspect to minimize carbon emissions and light pollution.

Developed based on this trend, the GigaTera lighting control system is an eco-friendly system with minimized energy consumption and emissions. In addition, it has wireless, wired, and sensor control systems to provide the most stable and economical lighting control solutions.



GATEWAY GeSS

The Gateways allows communication with command between the GeSS system and node

- This action is carried by using 2G/3G wireless connection and Ethernet
- Through wireless connection, the lighting fixtures and node can be monitored and controlled



APPLICATION

Highway, Roadway, Street

SPECIFICATIONS

Model	Power	Luminous Efficacy	Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
MA 150	150W	145 lm/W	21 750 lm	5000K (3000K, 4000K available)	80 Ra	7,5 kg	AC100 ~ 240 V AC100 ~ 277V	- 30 °C ~ +60 °C

SYSTEM CONFIGURATION



Lighting Control System

Wired / Wireless Control Device

GUI Operation Program - This is a PC operation program that allows users to manage the lighting control and settings when the lighting system is managed through a central control. The major functions include monitoring the status of the lighting device, on/off control, and brightness adjustment.

USB Converter Unit - This is connected to the PC's USB port. In this device, the received control command is converted into a RS-485 communication signal and transmitted to the master unit.

Master Unit (Master Unit-C: wired lighting control unit) - This device transmits the control command of the GUI operation program to the slave unit using a wired RS-485 signal. It can control and manage the status of a maximum of 32 slave units.

Slave Unit - This is a device that is installed on the interior of the lighting device. This is a module that analyses the control command received from the master unit and controls the lighting system.



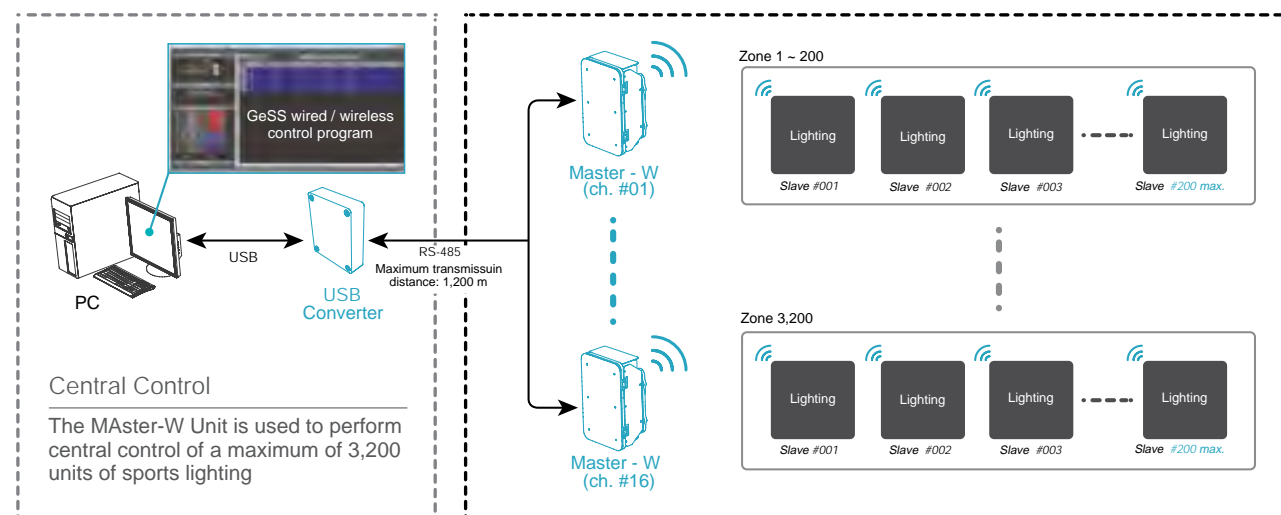
GUI Operation Program



USB Converter Unit



Master Unit



Wireless Control Solution

The GeSS sports wireless control solution uses the GUI (Graphic User Interface) program to implement integrated wireless control functions, interlinking the wireless nodes found in the product with the master device installed in the worksite.

Wired Control Solution

RS-485 communication based GigaTera control solution

GeSS sports wired control solution supports the self-protocol of the RS-485 communication method.

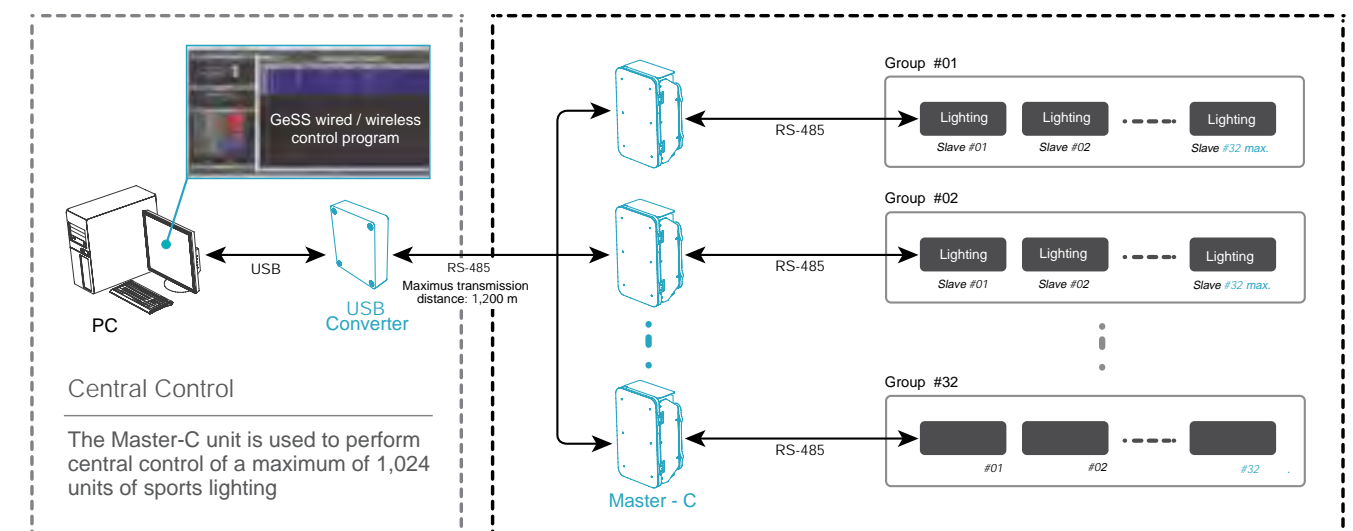
The self-protocol can use the Multidro function to generate the network of the device that is connected to the single RS-485 serial port.

One unit of the master device can be connected with a maximum of 32 units of the slave device and can perform a maximum of 1,200m of serial communications. Also, the Daisy Chain and Ringtone Topology in the design ensure that even if a cable disconnection or communication error occurs in a specific section, the system as a whole can operate normally.

DMX - 512

The DMX-512 protocol is the standard method for connecting lighting device and lighting control modules. This protocol has been in use since 1986 and is considered to be the global standard.

Because this protocol is very simple and sturdy, it is still used widely in various lighting facilities for stage lighting or scenic lighting. It supports the lighting on/off function and even offers brightness control. Recently, it has been widely used in the sports lighting to create a range of various entertainment effects.





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