TOKISTAR

PRODUCT GUIDE KROMASTAR SERIES

KROMASTAR GLOBE KROMASTAR FLAT KROMASTAR WASH







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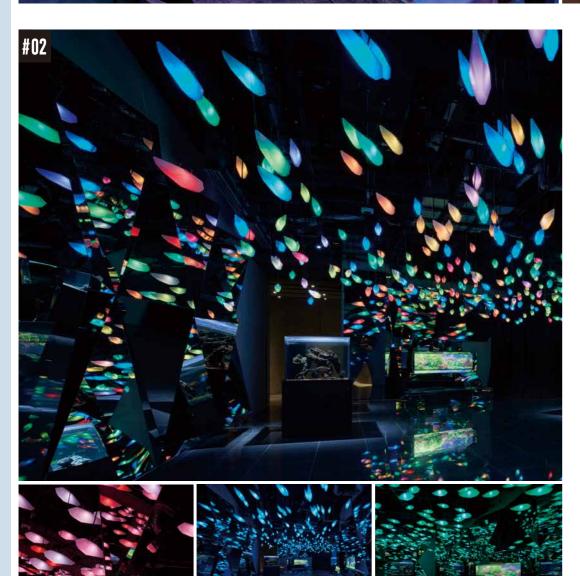
www.toki.co.jp/tokistar/en/

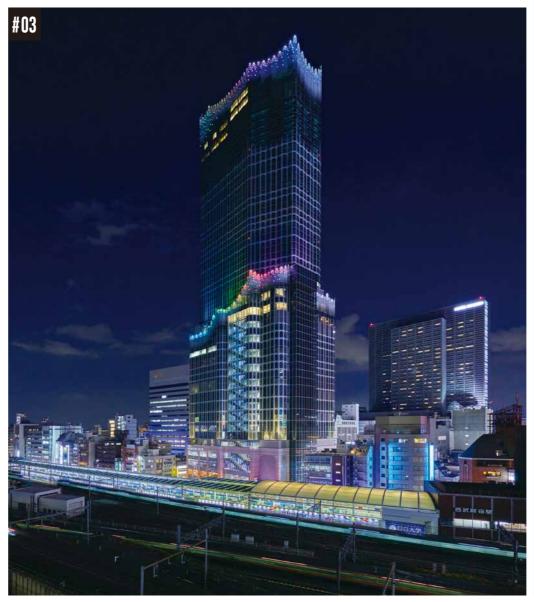
2024.3 Ver. 1











#01 CAFE





KROMASTAR GLOBE

KSG02-500-VI-RGBW

▶ Page 3-4

#02 átoa

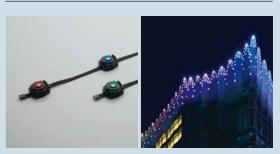


KROMASTAR FLAT

Custom (KSF01-300-RGB)
*Successor product : KSF02-300-RGBW Lighting design:lino Photographer : Fumito Suzuki

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#03 TOKYU KABUKICHO TOWER



KROMASTAR FLAT

2

Custom Exterior design : Yuko Nagayama & Associates Architectural design : Tokyu Architects & Engineers INC. Lighting design: Illumination Of City Environment Photographer: Fumito Suzuki

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PRODUCT GUIDE

PRODUCT GUIDE

KROMASTAR GLOBE









Voltage = 24VDC Wattage = 0.96W/LED Weight = 80g/LED

Main Materials = Aluminum, PBT & PC

Cable = Outer diameter Φ 7.8mm 1.25mm²×3 L = 2m

Independently Addressable RGBW LEDs

LED Spacing

LED Type

300:300mm VI: VI Lamp 500:500mm UB: UB Lamp



Addresses are given at the factory upon order.

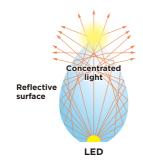
Catalog#	Power	LED Q'ty /run
KSG02-300-VI-RGBW	3.20W/m	
KSG02-500-VI-RGBW	1.92W/m	4 100 50-
KSG02-300-UB-RGBW	3.20W/m	4-100 LEDs
KSG02-500-UB-RGBW	1.92W/m	

System Features



Newly added Virtual Incandescent lamps and white LEDs enhance your experience

The virtual incandescent (VI) lamp was wellreceived in our Exhibitor Series. It does a remarkable job of emulating incandescent filaments from all perspectives. Red, Green, Blue and newly added White LEDs enable Kromastar to create vibrant expression in various colors. It is possible to use the white LED for everyday use and then change the atmosphere with vivid colored lighting on special occasions.









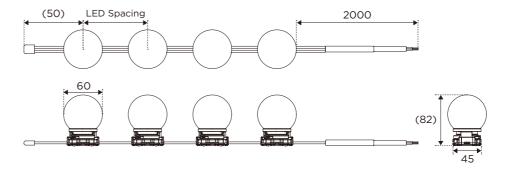
4-in-1 RGBW LEDs create your own special atmosphere

Kromastar produces consistent mixed color. In addition, it can create a white incandescent-like atmosphere with different color temperatures. Since each lamp is independently addressable, various expressions can be created as you like.



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Specifications



LED Colors. Im

VI Lamp

Red: 4.6lm/LED Green: 10.4lm/LED Blue: 3.3lm/LED

White(2700K):13.81m/LED (Ra=88)

UB Lamp Red: 6.1lm/LED Green: 13.8lm/LED Blue: 4.4lm/LED

White(2700K):18.41m/LED

(Ra=88)

*This is the maximum value for each color.

Accessories

Mounting Parts

Festoon Mounting

KSG-MDW/5 Wire-rope adaptors (5pcs/set) *Wire rope and all the associated mounting hardware is not provided with the system

Surface Mounting

KSG-MD/5	Mounting disks (5pcs/set)	
KSG-STP/10	Cable saddles (10pcs/set)	

Panel Mounting

KSG-PM/5	Panel mount adaptors (5pcs/set)

Other Option	
KSG-EP	Lead wire extension

Max. 10m (sold in increments 1m)

Installation

Surface Mounting with Disks



ounting disks	KSG-MD/5

*5pcs/set

*One mounting disk is required for each socket. Please check the required number of LEDs before placing an order.

Kromastar Globe can be surface mounted to structures using mounting disks.

Fix a mounting disk to the structure with Φ4mm pan head screws, and snap the socket into the mounting disk.

Festoon Mounting with Wire-rope Adaptors



Wire-rope adaptors	KSG-MDW/5

*5pcs/set

*Wire rope and all the associated mounting hardware is not

*A wire-rope adaptor is required for each socket. Please check the required number of LEDs before placing an

For festoon applications to a catenary cable, our wire-rope adaptors securely hold each socket in place to a wire rope. Wire rope should be stainless steel, tensile strength of 3.69 kN or more with outer diameter of 3 to 5mm.

Panel Mounting with Panel Mount Adaptors





KSG-PM/5 Panel mount adaptors

For installations to flat panels or extrusions up to 1.0 to 5.0mm, we offer panel mount adaptors. The socket assembly is inserted from below and the panel mount adaptor is pressed in place from above.

Make a Φ 54mm hole to install the socket. Recommended spacing between mounting holes is 250mm for KSG02-300, and 450mm for KSG02-500 fixtures in consideration of the wiring.

Refer to page 7-8 for the Power Supply, Data Mixer and Wiring Diagram of Kromastar Globe.

KROMASTAR FLAT OUTDOOR 24VDC IP66 DMX Voltage = 24VDC Wattage = 0.96W/LED Weight = 60g/LED Main Materials = PBT, PVC, Aluminum, & PC Cable = Outer diameter Φ 7.8mm 1.25mm²×3 L = 2m

Independently Addressable RGBW LEDs KSF02-300-RGBW LED Spacing

300:300mm

Addresses are given at the factory upon order

Catalog#	Power	LED Q'ty /run
KSF02-300-RGBW	3.20W/m	4-100 LEDs

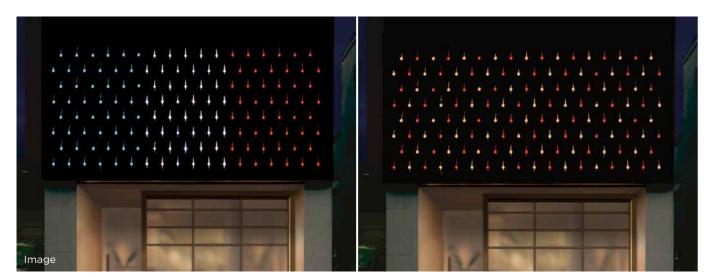
System Features



A New Standard for Full-Color Eye-Catching Lighting

Adding White LEDs to conventional RGB LEDs allows a more expansive range of expression. RGBW LEDs easily create a spring cherry blossom color or stylish shades of white. Orders can be provided in increments of 1 LED. It is possible to manufacture up to 100 LEDs (30m at 300MM spacing) for labor savings in large facilities.

Kromastar Flat may be used as a direct or indirect light source. When panel mounted it provides vibrant colorchanging points of light. As an indirect source it creates vivid blended color.



Specifications

Red: 7.6lm/LED

Green: 17.3lm/LED Blue: 5.5lm/LED

White: 23.0lm/LED (Ra=88)

LED Colors, Im

*This is the maximum value for each color.

Accessories

Mounting Parts R

Linear Mounting

KSG-MC Mounting track

*Wire rope and all the associated mounting hardware is not provided with the system

Surface Mounting

-	KSG-MD/5	Mounting disks (5pcs/set)
	KSG-STP/10	Cable saddles (10pcs/set)

Panel Mounting

KSG	-PM/5	Panel mount adaptors (5pcs/set)

Other Option

KSG-EP	Lead wire extension

Max. 10m (sold in increments 1m)

Installation

Linear Mounting



Mounting track KSG-MC

*Material : Aluminum *Length : 0.3 to 2.4m

Easy to use with mounting tracks for linear applications. Fix with Φ4mm pan head screws.

Panel Mounting



The socket assembly is inserted from below and the panel mount adaptor is pressed in place from above. Provide a Φ54mm hole to install the socket. Recommended spacing between the

holes is 250mm in consideration of wiring.

Surface Mounting with Disks

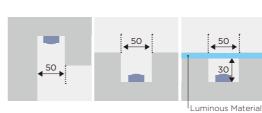


Mounting disks KSG-MD/5

*5pcs/set
*One mounting disk is required for each socket.
Please check the required number of LEDs before placing an order.

Kromastar Flat can be surface mounted to structures using mounting disks. Fix a mounting disk to the structure with Φ4mm pan head screws, and snap the socket into the mounting disk.

Minimum Space Requirements



For proper air flow, the dimensions indicated are required to prevent heat build up. Please keep these guidelines in

mind when using various optional

Other considerations are lighting effect and maintenance

Recommended Space Requirements

For indirect applications (Cove lighting)



Refer to page 7-8 for the Power Supply, Data Mixer and Wiring Diagram of Kromastar Flat.

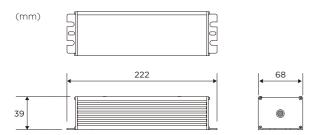
Power Supply & Date Mixer

24VDC LED Driver

Kromastar Globe and Kromastar Flat operate from Tokistar's 24VDC LED driver. This Class 2 power supply has a single output limited to 96 watts/4 amps. The input is universal ranging from 100 to 277VAC 50/60 Hz.

LDR24-96

Tokistar's LDR24-96 has a single 96 watt output.



LDR24-96 Specifications

Input Range: 100-277VAC Frequency Range: 50/60Hz Output: 24VDC (+/- 3%) Max. Output Current : 4.0A Max. Output Power: 96W Protection: Overload, Over voltage,

Mechanical Specifications

Short Circuit, Over Temperature Working Temperature: -30°C~+50°C

Dimensions: 68 x 222 x 39mm

Weight: 998g

Enclosure Rating: Suitable for use in Dry, Damp and Wet Locations/IP67 Rated

Mounting : Flange Mount

Safety Standards

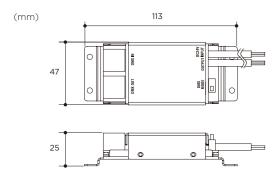
UL 879, UL 8750, UL 1310 Class 2, TUV EN60950-1, EN61347-1, EN61347-2-3 ind. CAN/CSA C22.2, No. 223-M91, CE, IP67 Rated

LED Module Capacity

KSG/KSF fixtures up to 100LEDs can be connected for one LDR24-96.

Data Mixer for Kromastar Globe and Kromastar Flat

LC-KS-MIX2 Required





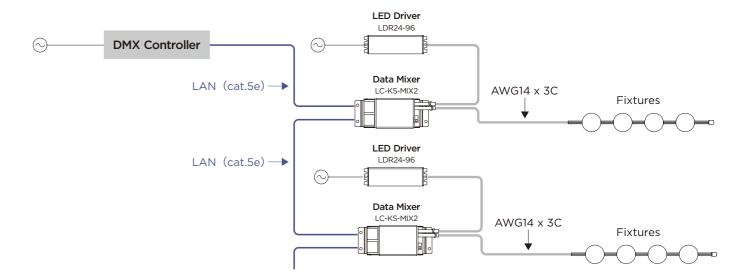
Rated input voltage : 24VDC Rated output voltage : 24VDC 5A

Input signal : DMX Weight: 120g *For indoor use only

Wiring Diagram

The wiring diagram is just an example.

Wiring diagram varies depending on electrical specifications, content of performance, site conditions, etc.



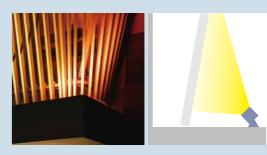
*NOT includes: DMX Controller, DMX Splitter, LAN Cables (cat.5e), Software, On site setting, etc.







#01 HEIWADO ISHIYAMA

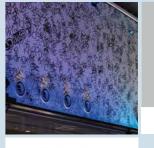


KROMASTAR WASH

Custom (KSW01-RGBW-20D equivalent) Design : MIZUHARA ARCHTECTURE PLANNING OFFICE

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#02 MIRAINO AEON MALL HAKUSAN







KROMASTAR WASH

KSW01-L900-RGBW-20D Design: RIC DESIGN Inc. Construction : MidWest corp.

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KROMASTAR WASH





Voltage = 24VDC

Weight = L300 : 700g L600:1400g

L900 : 2100g

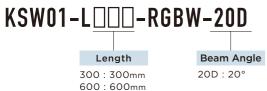
Main Materials = Aluminum, Stainless Steel & PC

Cable = Outer Diameter : Φ6.1mm(5-core)

Power sider : AWG18x2 Dimming Signal Side : AWG20x3 Connector Diameter: Φ20mm

Independently Addressable RGBW LEDs

900:900mm



Addresses are given at the factory upon order.

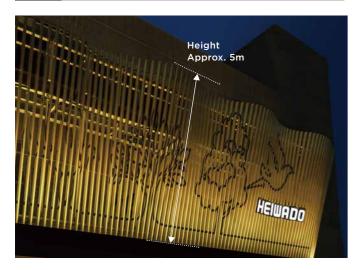
Catalog#	Power	Length
KSW01-L300-RGBW-20D	12W	0.3m
KSW01-L600-RGBW-20D	24W	0.6m
KSW01-L900-RGBW-20D	36W	0.9m

Fixtures up to 2.4m can be connected for a single LDR24-96W.

System Features



Consistent mixed color is ideal for lighting architectural facades



Kromastar Wash incorporates high-powered 4-1n 1 RGBW LEDs behind a single lens for producing consistent mixed colors from each light source. The 20 degree lens can illuminate not only flat surfaces but also surfaces with complex structures evenly without breaking the light.



Independently addressable 4-in-1 RGBW LEDs create your own special atmosphere

Each Red, Green, Blue and White LED die is independently addressable.

Its feature enables it to create white LED color for everyday use, and colored lighting for special occasions.



20 degree lens eliminates cutoff lines

20 degree lens eliminates any sharp cutoff where the fixture is lighting a reflective surface to the sides.

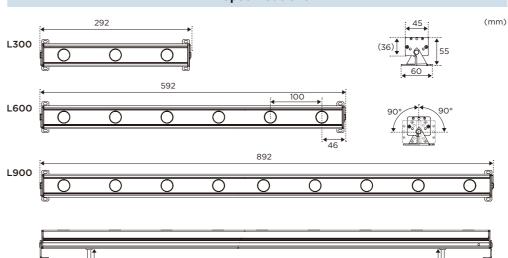




Typical full color wall grazer

Kromastar Wash

Specifications



LED Colors. Im

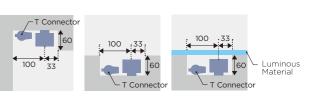
Red: 110lm/LED Green: 125lm/LED Blue: 30lm/LED White (4000K) :140lm/LED

*This is the maximum value for each color.

Light Distribution

KSW01-L___-RGBW-20D *White LED

Minimum Space Requirements



For proper air flow, the dimensions indicated are required to prevent heat build up.

Please keep these guidelines in mind when using various optional parts. Other considerations are lighting effect and maintenance.

Installation

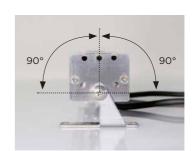
Fix with screws

Screw the mounting brackets on both ends of the fixture. Please prepare commercially available Φ4mm screws suitable for the construction surface.



Brackets are adjustable

As standard, adjustable brackets are installed. They pivot 90 degrees.



Refer to page 13-14 for the Power Supply, Date Converter and Wiring Diagram of Kromastar Wash.

Power Supply & Date Converter

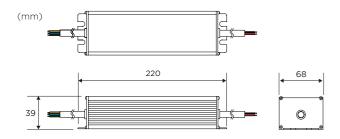
24VDC LED Driver

Kromastar Wash operates from Tokistar's 24VDC LED driver. This Class 2 power supply has a single output limited to 96 watts/4 amps.

The input is universal ranging from 100 to 277VAC 50/60 Hz.

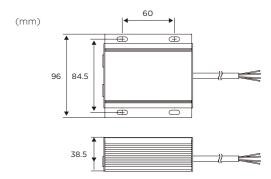
LDR24-96W

Tokistar's LDR24-96W has a single 96 watt output.



Data Converter for Kromastar Wash

LC-KSW-DC



LDR24-96W

Specifications

Input Range: 100~277VAC Frequency Range: 50/60Hz Output: 24VDC (+/- 3%) Max. Output Current: 4.0A Max. Output Power: 96W Protection: Overload, Over voltage, Short Circuit, Over Temperature Working Temperature: -30°C~+60°C

Mechanical Specifications

Dimensions: 68 x 220 x 39mm

Weight: 1120a

Enclosure Rating: Suitable for use in Dry, Damp and Wet Locations/IP67 Rated

Mounting: Flange Mount

Safety Standards

ETL Listed to UL 2108 when used with Tokistar Lighting Products UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 IP67, J61347-1, J61347-2-13 approved; design refer to UL60950-1,TUV EN60950-1

LED Module Capacity

KSW fixtures up to 2.4m can be connected for one LDR24-96W.



Rated input voltage: 24VDC Input signal : DMX Weight: 180g *For indoor use only

Kromastar Wash Cables Data Cable 30m T Connector · Cable 30000 T Connector with End Cap Φ19 **381** Lead Cable 10m 10000 64.4 End Cap 50 KSW-CON-T/EC T Connector with End Cap KSW-CON-DC-30m Data Cable 30m KSW-CON-LC-10m Lead Cable 10m

*One of each item is required for a LED driver

Options

KSW-EXT-DC-15m	Data Extension Cable 15m	
*This is an extension cabl	e exclusively for KSW-CON-	
DC-30m. It can be extended up to 60m in		
combination with KSW-	CON-DC-30m.	

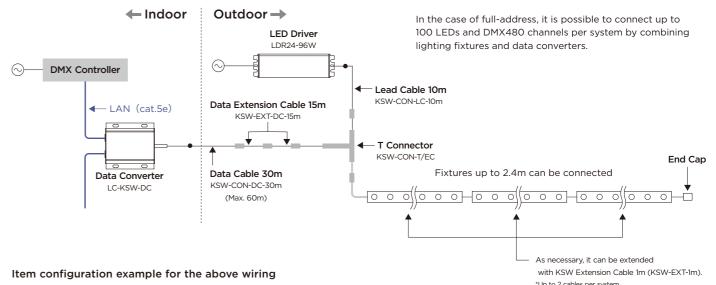
KSW-FXT-1m	KSW Extension Cable 1m

*This is an extension cable to connect between T connector and the fixture, or between fixtures. Up to 2 can be used per system.

Wiring Diagram

The wiring diagram is just an example.

Wiring diagram varies depending on electrical specifications, content of performance, site conditions, etc.



- Lighting fixture (2.4m) 1 system x 4 systems
- From T connector to data converter: Max.60m

Kromastar Wash L900	KSW01-L900-RGBW-20D	8pcs
Kromastar Wash L300	KSW01-L300-RGBW-20D	4pcs
LED Driver	LDR24-96W	4pcs
Data Converter	LC-KSW-DC	4pcs
T Connector with End Cap	KSW-CON-T/EC	4pcs
Data Cable 30m	KSW-CON-DC-30m	4pcs
Data Extension Cable 15m	KSW-EXT-DC-15m	8pcs
Lead Cable	KSW-CON-LC-10m	4pcs
KSW Extension Cable	KSW-EXT-1m	-

*NOT includes: DMX Controller, DMX Splitter, LAN Cables (cat.5e), Software, On site setting, etc.

A PRECAUTIONS

- Maximum cable length from DMX controller to Data Converter end is 50m.
- Maximum cable length from Data Converter to T connector is 60m.
- Controllers and Data Converters are not waterproof. Please install them
- Please select cables with a capacity that matches the construction conditions. Depending on the site environment, select cables that are water/ weather resistant and comply with the local standards.

A PRECAUTIONS

- 1. Read all instructions completely before beginning installation.
- 2. Turn off electricity before beginning installation. 3. All wiring is to be performed by a qualified electrician.

applicable codes.

- 5. Turn main supply to LED Driver on only after all connections have been made and tested.
- 6. Use only LED Drivers provided by Tokistar with the system.

4. Installation must comply with the National Electrical Code, or all