ALL LIGHT Series

Matrix Light

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About the product

Name and function of each part

Installation and Use of Light

Troubleshooting

Additional information

••• For your safety, please read the "Safety and Handling" instructions carefully before using the ALL LIGHT products.
••• ALL LIGHT products may be subject to technical improvements without prior notice from Matrix Light.
••• Refer to this user manual for installation and safe use of the product.
••• This manual can be downloaded free of charge from the Matrix Light website at www.matrixlight.com

••• About the Product

01. Special features •••

Matrix light ALL LIGHT

Thank you for choosing the Matrix Light All Light Series. All Light 1, 2, and 4 have been designed and built with the goal of creating the ultimate lighting that professionals have wanted. The product reflects the diverse needs of the field and creates a fast and seamless user experience that enables professional users to deploy light sources as closely as possible in the real world. Professional users can easily meet their needs by using the All Light Series when they need multi-functional, high-performance lighting to suit their situations, such as broadcasting, movies, commercials, and live events.

Graphic touch interface

The Matrix Light All Light Series features an innovative Graphic Touch control interface, which provides users with quick and easy access to a variety of menus, making it incredibly easy and convenient to control compared to the complex and cumbersome operating methods adopted by similar products.

Wire / wireless control interface

The Matrix Light All Light Series complies with the DMX-512 standard protocol to make it fully compatible with traditional lighting controllers. The All Light Series can also be controlled with smartphones and tablets via Bluetooth connection.

Preset / Preset Save

The Matrix Light All Light Series has a preset menu that recreates the colors of many different light sources. In addition, the colors and brightness of the various light sources you set are saved through the Preset Save menu, and the saved settings can be recalled and used at any time. These features make it very convenient to match the settings of the same lighting when shooting multiple scenes in succession on the scene.

Multi effect and color filter

The ALL LIGHT provides users a wide range of preset lighting effects. Users can also easily create their custom lighting effects by using the ALL LIGHT effect creator. The ALL LIGHT includes hundreds of color filters, which can be accessed by their code value or name. The color filters not only simplify the color lighting process, but also enable precise and flexible color control.

Stronger body, better performance

The ALL LIGHT's main body includes a high-efficiency aluminium heat sink and a cooling fan. This feature help minimize the effect of temperature difference on the ALL LIGHT's performance. In addition, the mechanical strength and lifespan of the product's key parts and accessories have been significantly improved. All Light will be the most ultimate form of LED light, providing the highest quality of light as intended by the photographer.

* Visit www.matrixlight.com for a downloadable version of this product manual.

•• About the Product

02. Important notices ••

For your safety, please carefully read and understand the following before continuing:

Safety symbols		
Icon	Classification	Definition
⚠	**DANGER**	Death or serious injury will follow if warning is not heeded.
✊	**CAUTION**	Injury or product damage loss will follow if warning is not heeded.

Safety-related matters of the product and the warranty service

Be sure to familiarize yourself with safety precautions before using this product.

◉ Illustrations in the manual are for description purposes only; actual products may vary.
◉ Before requesting service, refer to the 'Check before reporting any faults' section to check if the product is defective.
◉ In the event of a non-failure, the service must be requested at a certain cost, even within the warranty period.
◉ The user is solely responsible for any injury or product damage caused by failure to follow the instructions.
◉ Make sure to check that the product is functioning normally before filming.

Copyright

•• About the Product

03. Safety and handling ••

For your safety, please carefully read and understand the following before continuing:

High voltage! Risk of electric shock and fire.

- ⚠ Read and understand all safety information and operating instructions before installing and operating the product.
- ◉ Failure to comply with safety information or general rules may result in injury, death, or damage to equipment to oneself and others.
- ⚠ Always verify that the local AC power source matches the voltage and frequency range printed on the product type label before using.
- ⚠ Use only genuine Power Supply Unit (PSU) and dedicated connection cables designed for Matrix Light All Light.
- ◉ To protect against electric shock, always connect the external power supply to ground (ground) electrically when connected to AC power. The AC mains power supply must be equipped with a fuse or circuit breaker and a ground fault (ground failure) protection.
- ◉ Only use a power supply dedicated to the Matrix Light All Light and a connector cable dedicated to the Matrix Light. Using other power supplies and connector cables can cause malfunction and damage to the product.
- ⚠ When using a battery pack, always ensure that the voltage matches the voltage range printed on the product type label before connecting the battery pack to the product.
- ⚠ Never use the power cables for transportation. Never hang heavy objects on the power cables. Do not hang the battery pack on the product connection cable.
- ⚠ Do not disassemble or open the product on your own.
- ◉ Never repair any part of the product on your own. Maintenance and repair work is only carried out in the Matrix Light Service Center, and if repaired on your own, the product is not eligible for after-service assurance.
- ◉ Do not bypass or remove the safety features of the product.

Humidity and Condensation, Electric shock and fire hazard

- ⚠ Do not expose the product to rain or moisture. Do not use the product for 2 hours when exposed to a large temperature difference as condensed moisture may electrically damage the product when switched on.
- ⚠ Do not bend the power cable directly after the connector. Moisture could enter the connection and cause damage to the product.

Overheating, fire hazard

- ⚠ Do not operate the product if the ambient temperature exceeds 45°C.
- ⚠ Intensive use of the product may result in hot surfaces (up to 80°C). Make sure that the product is sufficiently cooled before handling the product.
- ⚠ Do not cover air vents when operating the product. Keep a clearance around the vents of at least 0.5m(1.65ft).
- ⚠ Do not place the product near head sources. Intense heat may damage the product and / or cause automatic power offs.

Intense light! Rish of injury and fire.

⚠ Do not stare directly at the light source. Risk of irreversible eye damage. Wear safety glasses when this is unavoidable. Keep a minimum distance of 1.0m(3.3ft) from illuminated surfaces, objects, and people when operating.

⚠ Never use the product without a dedicated diffuser installed.

⚠ Always wear safety glasses when the product is connected to an AC power supply or a battery pack. Keep a minimum distance of one meter from the LED panel. The product may cause eye injury when it is suddenly turned on.

⚠ Always connect the product directly to AC power. Do not connect the product to a dimmer system. It may damage the product.

Heavy weight! Risk of injury.

⚠ The equipment and accessories must be secured so that they do not fall when mounted on the floor level. In particular, if the product is fastened to the ceiling, in addition to clamping the combined studs, be sure to install and construct the product so that it does not fall off the ceiling even if the product is pulled out of the clamp using an auxiliary safety cable that can withstand more than 10 times the product load.

⚠ Attach an approved safety cable to prepare for clamp or bracket failure when mounting the product on the floor. The safety cable must be able to withstand at least 10 times the weight of the product, including all accessories mounted on the product. The safety cables shall comply with EN 60598-2-17 Section 17.6.6 and shall be products approved by a formal instrument such as TUV.

⚠ Cover and install the safety cable on the "⊏" shaped light stand (etc.) and keep it as short as possible. Handles and floor stands should not be used as anchors for safety elements.

⚠ Always observe general and local safety regulations.

⚠ Make sure that the stirrup hangs or stands vertically. Installing the stirrup horizontally may cause the spigot and stirrup to deform or break. The supporting structure has to withstand the weight of all devices and accessories installed on it.

⚠ All Light 4 can damage vibration and objects or injure people when falling onto the safety cable due to its horizontal length (600mm). To reduce this occurrence, it is recommended that two safety cables be used on both sides of the fixture.

⚠ Whenever you install, service, or move a product or accessory, block access below the workspace and work on a stable platform.

⚠ If you are using accessories and third-party accessories (e.g. battery pack and battery charger), please follow the instructions in your product. They contain important safety and security information.

⚠ Matrix Light recommends that all electrical components, in addition to regular visual checks, be performed by experts every 12 months.

⚠ LED light sources in All Lights cannot be replaced individually. If the light source has reached the end of its operational life, the entire LED board must be replaced.

⚠ If the light source malfunctions before the specified operating life is over, contact the head office or branch office of the Matrix Light, your distributor, service agent, or similar qualified persons.

Firmware downgrade

⚠ After updating to version 1.0.0 or later, the firmware cannot be downgraded to a version lower than 1.0.0.

Maintenance of products

⚠ Do not clean the surface of the product with solvents or strong detergents.

⚠ Wipe the surface with a soft cloth moistened with a mild detergent. Do not rub with force.

⚠ Clean electrical contacts with a cotton swab soaked in isopropyl alcohol. Keep electrical contacts clean at all times and use corroded parts after replacement.

⚠ This product is intended to illuminate people and objects in a dry environment. Always follow safety information. Use other than those described above is not permitted and failure to comply may result in associated hazards such as product damage, short circuits, fires, electric shock.

⚠ Do not closely illuminate the All Light, the diffuser installed in front of the product, and the LCD display on the back of the product with high-power rays that generate hot heat over a short distance. The diffuser can be deformed by hot heat, the LCD display and internal circuits can be damaged by high brightness and heat radiation in a very short time.

Battery / Charger Related

⚠ Do not randomly disassemble, replace, mix, charge or short circuit the battery. Doing so may cause fire and / or explosion.

⚠ Charge the battery immediately when the low battery warning lamp turns on. Excessive discharging and recharging will shorten the lifespan of the battery and may damage other devices.

⚠ Do not expose the battery to excessive shock. May cause equipment failure, fire and explosion.

⚠ Do not leave the battery in a hot, humid place. May cause equipment failure, fire and explosion.

⚠ Only use the dedicated power line provided with the battery when charging the battery and connecting the light. Using of other power lines may cause a malfunction, fire, or explosion.

⚠ If the battery is charged with strange noises, smell of burning, or smoke, remove the power plug immediately and contact the service center. Causes electric shock, explosion and fire.

⚠ Do not put the battery on fire or heat it up. Causes heat and explosion.

⚠ Be sure to use a dedicated charger. Using another charger can cause fluid, heat and rupture.

⚠ Do not store or carry metal products such as necklaces and hair pins with batteries. Causes heat and / or explosion.

⚠ If your eyes come in contact with chemicals leaked out of the battery, wash them immediately with clean water and seek medical attention. Eyes will become damaged when untreated.

⚠ Wipe the battery with clean water immediately if the fluid is present on the skin or clothing. Leaving it alone will cause skin damage.

⚠ Never disassemble the external casing of the battery or damage the parts, or use a battery that has been dismantled or destroyed. Causes fluid, heat and explosion.

⚠ When charging the battery, stop charging immediately if charging is not completed even after a certain amount of charging time has elapsed. Causes heat and / or explosion.

⚠ Do not wet the battery. Causes heat and / or explosion.

⚠ Be sure to disconnect the battery from the device after using it. Causes chemicals to leak and / or overheating.

◉ When disposing a battery, insulate the contact area with tape and dispose of the battery properly in accordance with the regulations of the local government in the residential area.

⚠ Do not bend, pull, or strain the power line of the charger. Causes electric shock and fire.

⚠ Plug the charger into the inner end to prevent it from shaking. Incomplete connection may cause fire.

⚠ Do not use damaged power lines, plugs, or loose socket outlets. Causes electric shock and fire.

⚠ Never touch the power plug of the charger with wet hands. Causes electric shock.

⚠ Keep the power line of the charger away from heat sources. The covering of the power supply may melt, causing fire or electric shock.

⚠ Do not plug several power plugs into one outlet at the same time. Causes overheating and / or fire.

Light Installation/Operation

⚠ Do not install in areas where there is oil, smoke, moisture, dust, or rainwater

⚠ If oil or moisture enters the inside, there is a risk of electric shock and fire.

⚠ Never turn the product on in front of people's and animals' eyes. Doing so may cause irreversible eye injury. Always attach the diffuser when filming people or infants, and be careful not to point the light at their eyes. Keep a minimum distance of 2 meters.

⚠ Do not turn on the lights for the driver of the vehicle in motioned. Causes an accident.

⚠ Do not block the sidewalls and vents of the light. The LED module may experience reduced life and fire due to increased internal temperature.

⚠ Be sure to use only the specified external power supply and battery for the light. Use of random power may cause equipment failure and fire.

⚠ If the light has been lit for more than 5 minutes, there is a risk of low temperature burn if the light is held in the light for longer than 5 minutes, so wait until the light case cools down Manipulate it.

⚠ If the light falls into the water or the casing is damaged, turn off the product and unplug the power supply. Failure to do so may cause fire and electric shock. Contact the Matrix Light Service Center.

⚠ Do not arbitrarily disassemble, repair, or modify the light. If you need repairs, please contact the service center.

⚠ Do not use or store flammable sprays or flammable substances near the product. There is a risk of explosion and / or fire.

⚠ Do not insert metal objects such as chopsticks, wire, or trunks into the ventilation shaft or power terminal, or fire-prone items such as paper or matches. There is a risk of electric shock and fire. If water or foreign matter is inside the unit, turn off the power switch on the main body of the machine, remove the power plug from the outlet, and contact the service center.

⚠ Avoid hot and humid places. Risk of failure and electric shock. There is also a risk of product failure and electric shock when used outside during thunder and lightning.

⚠ Do not use benzene or paint thinner to clean. Causes deformation and discoloration.

⚠ Keep small accessories out of the infant's reach. Infants may swallow them. If swallowed, consult your doctor immediately.

⚠ Don't touch it with wet hands. Causes electric shock.

◉ Store in a stable, well-ventilated place.

•• Product knowledge

04. Product package components •••

Make sure that all necessary accessories are included in your package before using the product. Depending on the type of package you purchased, the shape of the product configuration or accessories may vary.
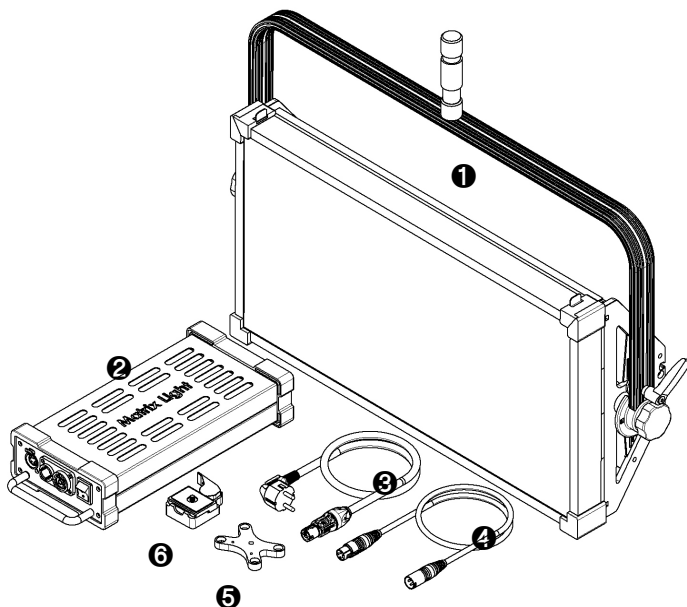
Basic components •••
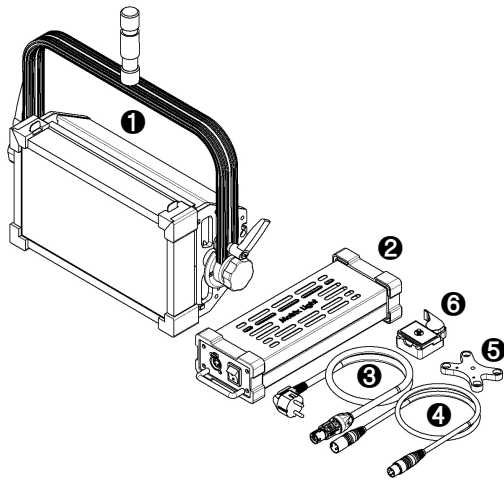
[All Light 1 Basic components]

❶ All Light 1 LED Light
❷ ML-APS1 Power Supply Unit
❸ ML-APC1 Power Cable
❹ ML-APC2 Power Cable
❺ ML-AT2 Power Supply Attacment
❻ ML-QR1 Quick release
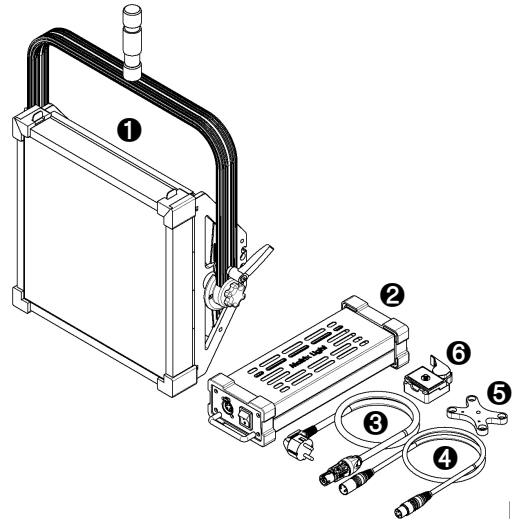
[All Light 2 Basic components]

❶ All Light 2 LED Light
❷ ML-APS2 Power Supply Unit
❸ ML-APC1 Power Cable
❹ ML-APC2 Power Cable
❺ ML-AT2 Power Supply Attacment
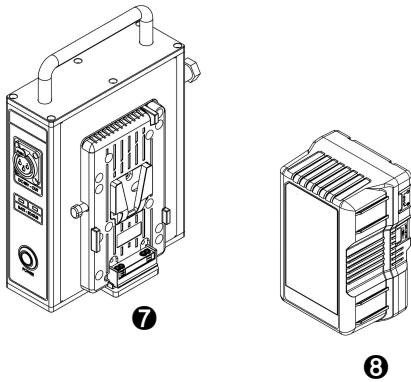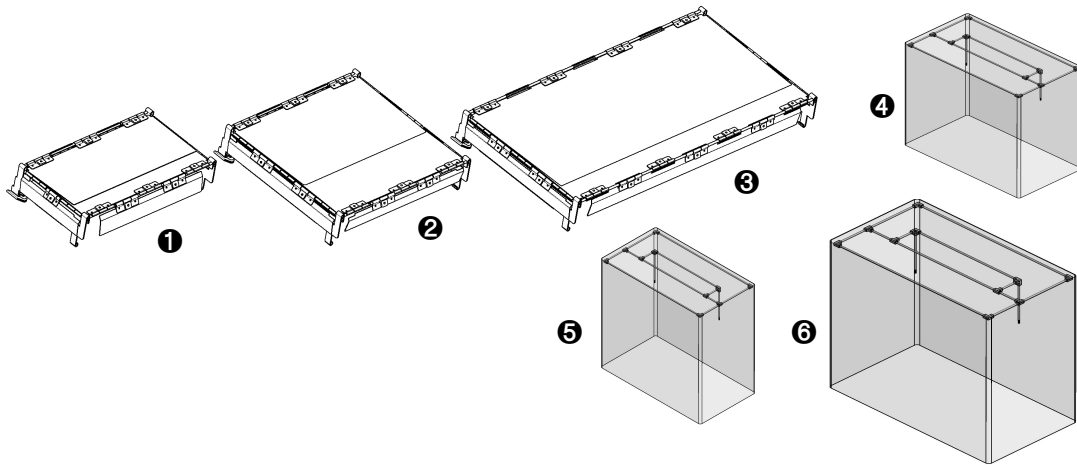❻ ML-QR1 Quick release

[All Light 4 Basic components]

❶ All Light 4 LED Light
❷ ML-APS4 Power Supply Unit
❸ ML-APC1 Power Cable
❹ ML-APC2 Power Cable
❺ ML-AT2 Power Supply Attacment
❻ ML-QR1 Quick release

Optional Parts •••

[Optional Parts]
❶ ML-ABD1 Barn Door for All Light 1
❷ ML-ABD2 Barn Door for All Light 2
❸ ML-ABD4 Barn Door for All Light 4
❹ ML-ARC1 Rain Cover for All Light 1
❺ ML-ARC2 Rain Cover for All Light 2
❻ ML-ARC4 Rain Cover for All Light 4
❼ ML-PB48 48V DC Power Supply
❽ ML-BP22A BP Battery

■ Accessories in the package or optional devices can be purchased from www.matrixlight.com
■ Revision of the user manual provided can be downloaded from the Matrix Light website at (www.matrixlight.com)
■ Only use Matrix Light accessories (such as power cables, batteries, power supplies, etc). Damages caused from using third-party accessories are not eligible for free warranty service.

•• Name and function of each part

01. LED Light ••

[All Light 1]

AC OUT
AC IN
Spigot(28mm)
Stirrup
Tilt Lock Lever
DC 48V OUT
DC 48V IN
USB
RJ45
DMX OUT
DMX IN
LCD Pannel
Encoder S/W
Main Power S/W
Power Supply Unit
Tilt Angle Adjust Knob
Tilt Angle Indicator

[All Light 2]

Tilt Angle Adjust Knob
Tilt Angle Indicator
AC OUT
AC IN
48V DC IN
DMX OUT
USB
DMX IN
RJ45
Encoder S/W
LCD Pannel
Spigot (28mm)
Stirrup
Tilt Lock Lever
PSU Quick Release
48V DC OUT
Main Power S/W
Power Supply Unit

[All Light 4]

Spigot (28mm)

Stirrup

Tilt Lock Lever

PSU Quick Release

DC 48V OUT

AC IN

AC OUT

Tilt Angle Indicator

Tilt Angle Adjust Knob

Main Power Switch

Power Supply Unit

Matrix Light

Encoder S/W

RJ45

LCD Pannel

USB

DMX IN

DMX OUT

DC 48V IN

•• Installation and Use of Lights

01. How to Install and Use Light ••

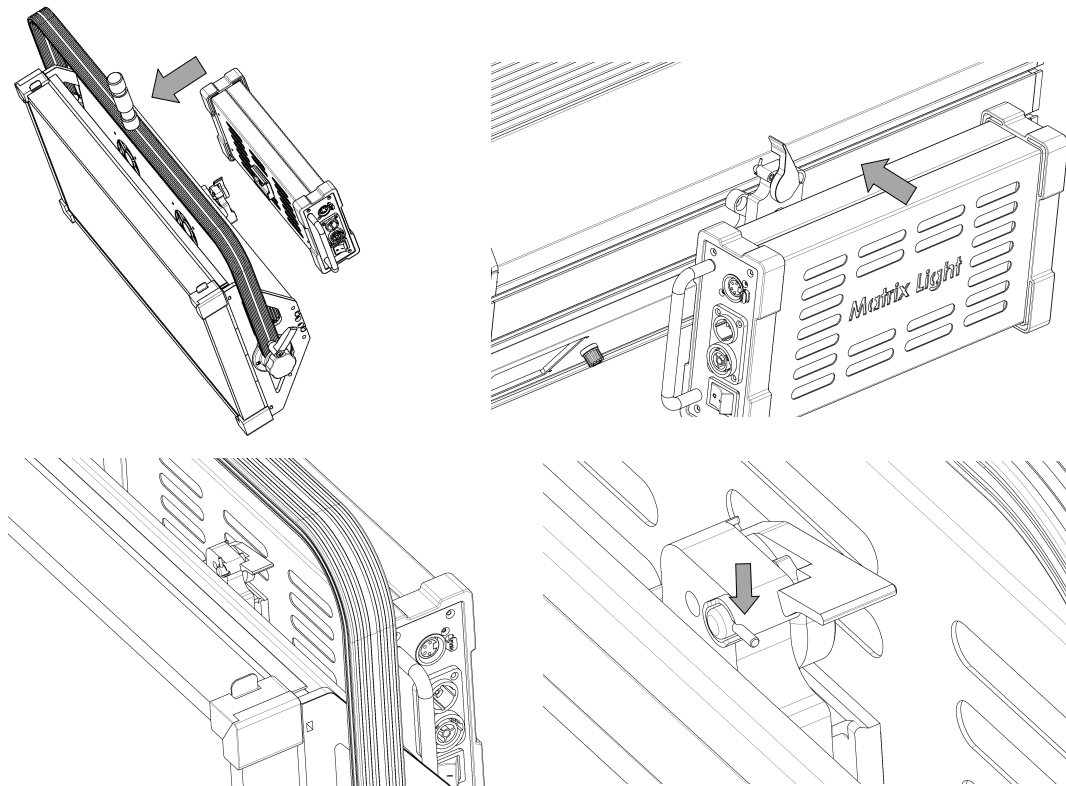### Power Supply

AC Power

The Matrix Light All Light is powered by an external power supply (Power Supply Unit / PSU). The PSU is an automatic sense switch mode power supply that automatically adapts to AC power at 110 to 240 V and 50/60 Hz.

How to attach a power supply (PSU)

To attach an external power supply (PSU) to the Matrix Light All Light, push the external power supply (PSU) into the groove of the Quick Release installed behind the Matrix Light All Light as shown below. After attaching, pull the anti-departure lock lever of the Quick Release in the direction of the arrow to prevent the external power supply (PSU) from falling easily.

Do not stare closely at the light before connecting it to the power supply or battery pack. Make sure the product is disconnected from the DMX device. Also, make sure that the power switch on the external power supply (PSU) is turned off. Connecting the PSU to the light with the power switch on the external power supply (PSU) may strain the equipment and cause a failure. The power switch of the external power supply (PSU) must be turned on finally after all the power cables are connected properly.
The power outlet or external power switch that supplies the Matrix Light All Light must be located near the external power supply and the PSU must be easily disconnected or connected from the power source.
The external power supply of the Matrix Light All Light requires a Neutrik PowerCON True1 NAC3FX-W cable connector or a compatible power input cable. The Matrix Light provides a power cable with a different plug or end-to-end plug from the PowerCON cable connector for

110V or 240V voltage (see "Product Specification").
The connector cable between the external power supply and the Matrix Light All Light can be used in different lengths as an accessory. Use only connector cables for Matrix Light All Light (see "Product Specification").

To insert and remove PowerCON cable connectors

1. Arrange the key protrusion of the connector and the keyway of the input socket, then insert the cable connector into the power input socket.
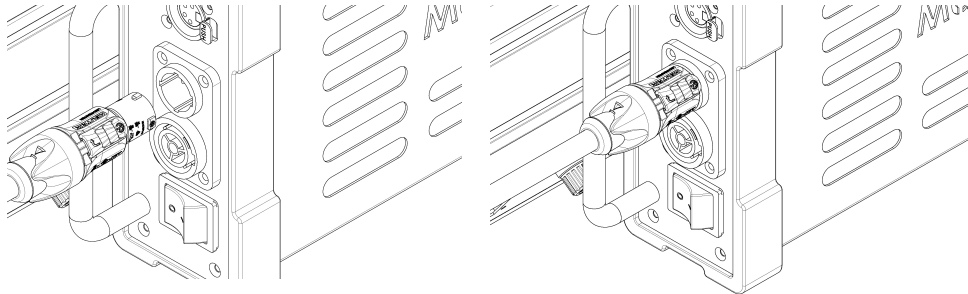

2. Lock the cable connector by turning it fully clockwise.
3. To unlock the cable connector, press the connector lock backward and turn the cable connector counterclockwise. Pull the cable connector out of the power input socket.

To connect and remove the XLR connector on the DC 48V cable

Connectivity to DC 48V cable connector:
1. Leave the main power switch on the external power supply OFF.
2. Align the 48 V DC power key on the socket of the product with the keyway on the arm cable connector. Insert into the power supply of the socket until the cable connector is locked.
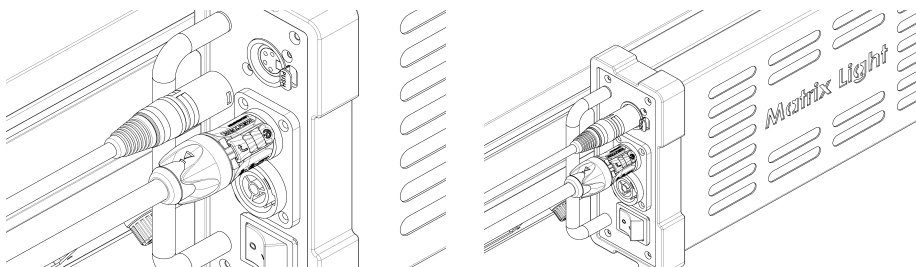
3. Align the raised key on the male cable connector with the keyway on the power supply outlet. Insert into the power outlet until the cable connector is locked.
4. Insert the arm cable connector into the DC 48V IN terminal of the All Light body.
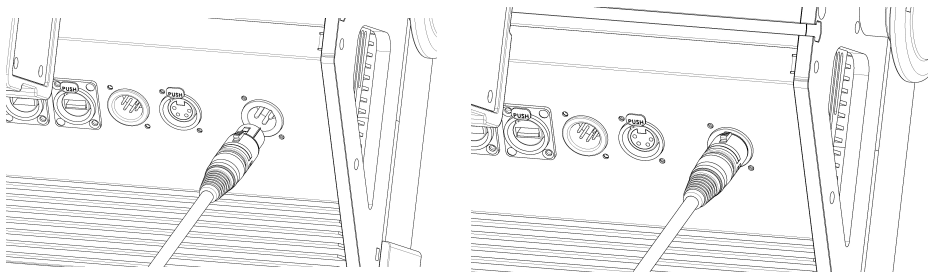
To disconnect the DC 48V cable connector:
1. Pull the connector lock and pull the cable connector out of the socket.

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Power Through

The external power supply is equipped with a Neutrik PowerCON Through 1 power output socket, which can be supplied from one power outlet to another external power supply for the Matrix Light All Light. The voltage and frequency of the penetrating power is the same as the voltage and frequency of the power input.

External power supply power switch on/off

If the AC power input cable is connected to the external power supply and the lights are well connected to the dedicated cable, turn on the power switch of the external power supply. Turn off the power switch of the external power supply and release the power input cable when the lighting is finished.

Battery power

To operate the Matrix Light All Light using battery power, separate optional items such as ML-DPS1 / DC Power Supply Unit and ML-DPS1 exclusive BP batteries are required. If the battery is fully charged, combine the ML-DPS1 exclusive BP battery with the battery power supply (ML-DPS1 / DC Power Supply Unit) and connect the battery power supply and All Light to a dedicated power cable. Switch on the power switch of the battery power supply. Turn off the power switch of the battery power supply and release the power input cable when the lighting is finished.

How to use diffusion filters

Diffusion filters are installed in the product at the time of initial product purchase. If you replace the filter with a different spread ratio, proceed in the following order:
  - Pull the upper cover latch on the left and right sides of the light upper cover to the direction of the arrow and open the upper cover.
  - Pull out the previously installed diffused filter in the upward direction and insert the new diffused filter into the diffusion filter installation slot.
  - Close the light upper cover and lock the upper cover by pushing the upper cover latch on the left and right sides to the direction of the arrow.
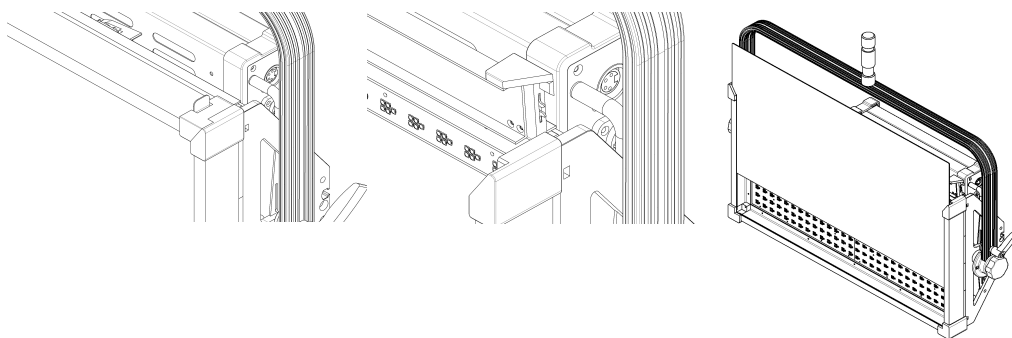
How to Use a Barn door

Barn door is available as a separate option.
The installation of the vanguard is to extend the small wings outwards to facilitate installation, as shown in the figure, and then mount them in the light in the order of the arrows. At this point, spread the fixing latch to the left and right to grooves, and at the bottom, place the bottom of the half-door into the "A" shaped shackle as illustrated, close the small wings to the light body and open the large wings to adjust the desired angle.
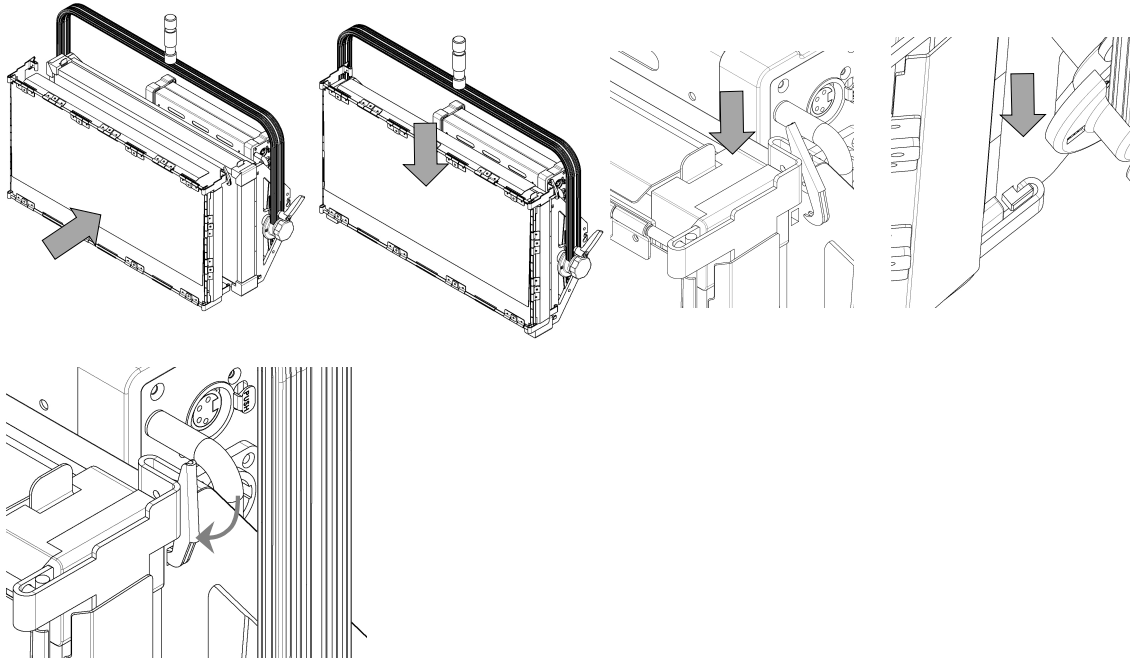
How to use a rain cover

The ML-ARC1, ML-ARC2, and ML-ARC4 rain cover are available as a separate option.
Install the rain cover as shown in the figure below, rotate the two rods to fix them on the mounting screw groove for the run-in-cover rod. Install the rain cover frame using the connecting joint and rod, and cover the rain cover as shown below. Secure the rain cover to the body of the product with a retaining strap at the bottom of the rain cover to prevent the wind from blowing. (In severe wind conditions, excessive use of rain cover without safely securing the light tripod may cause damage to the equipment and damage to the equipment by the wind.)
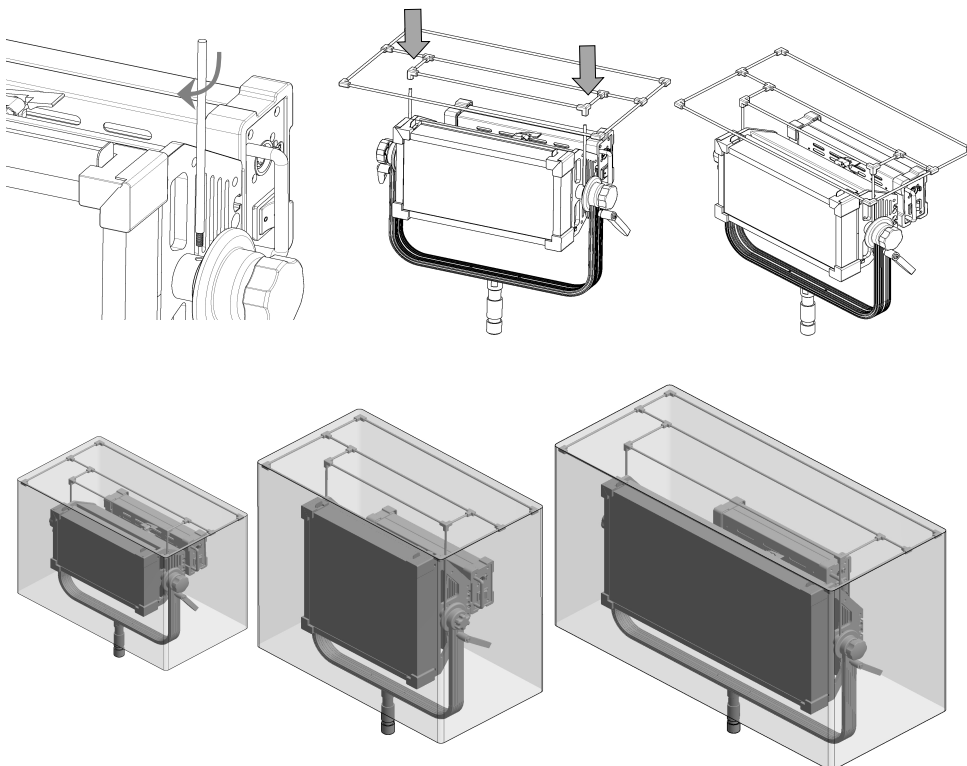
02. How to operate the touchscreen ••

Touchscreen menu configuration

The touchscreen menu of the Matrix Light All Light consists of the following schemes:

COLOR Mode

- CCT Mode
- RGB Mode
- HSI Mode

Preset

- Preset 1
- Preset 2

Preset Save

Filter Menu

- Color Filter 1
- Color Filter 2

Effect Menu

- Flash Effect
- Color Effect

Custom Effect

System Setting

- Display
- Color Offset
- DMX Mode
- Fan Speed
- Bluetooh
- Light Curve
- Factory Default
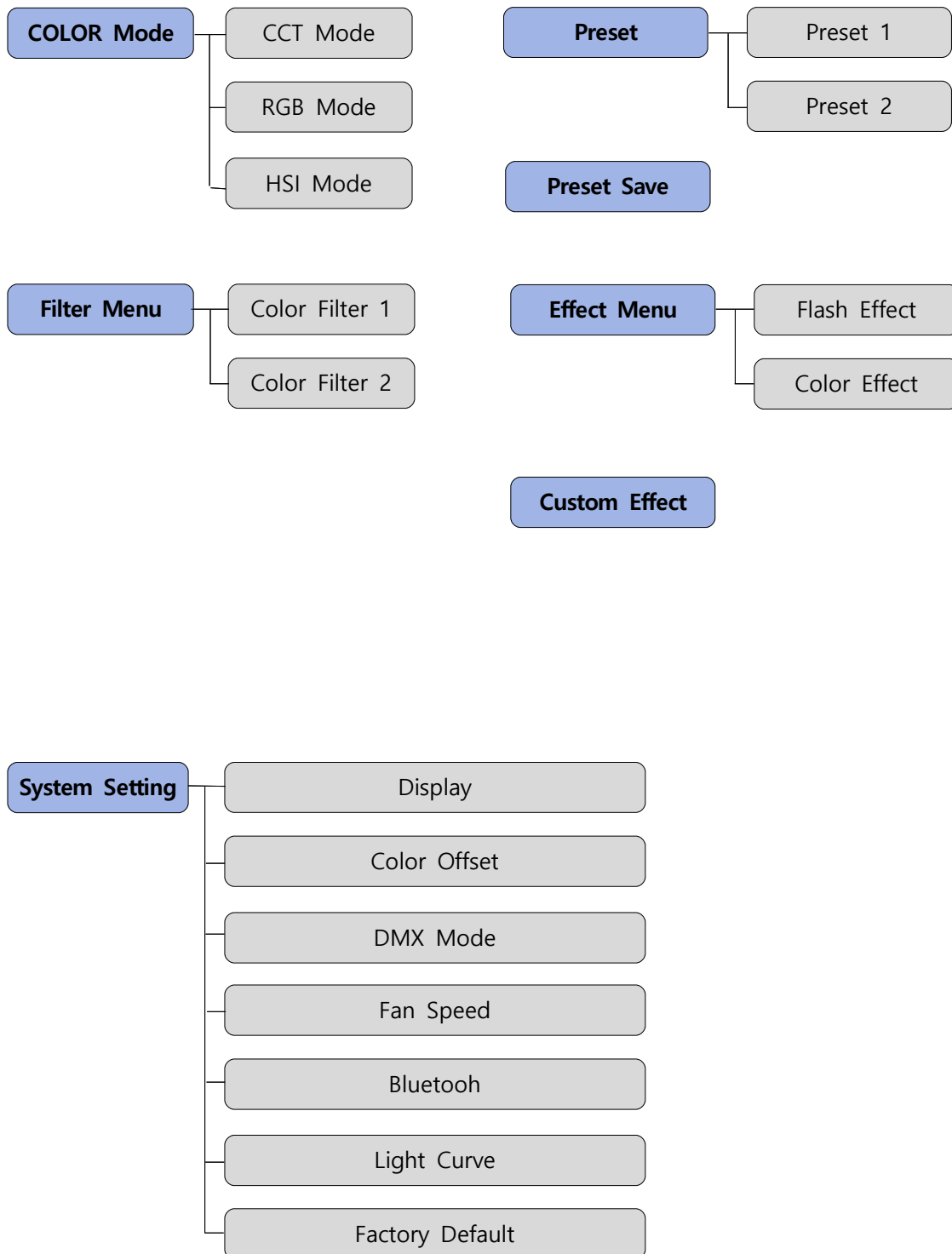
Touchscreen menu operation

The initial menu of the touchscreen for the Matrix Light All Light consists of the following:
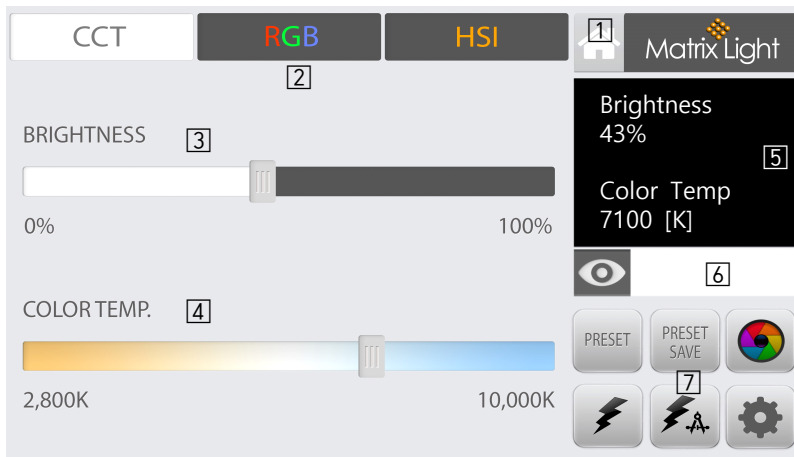

1 Home Button

2 Color Mode Button

3 Brightness Controller

4 Color Temp. Controller

5 Information Window

6 Color Preview

7 Function Select Button

1. Color Mode

Matrix Light All Light supports three color modes: CCT, RGB, and HSI. CCT mode supports between 2,800K and 10,000K white light, and RGB mode is a color combination of three-color LEDs from Red, Green and Blue that can produce tens of millions of different colors. HSI mode is a color combination based on Hue, Saturation and Intensity that allows you to express the desired color.
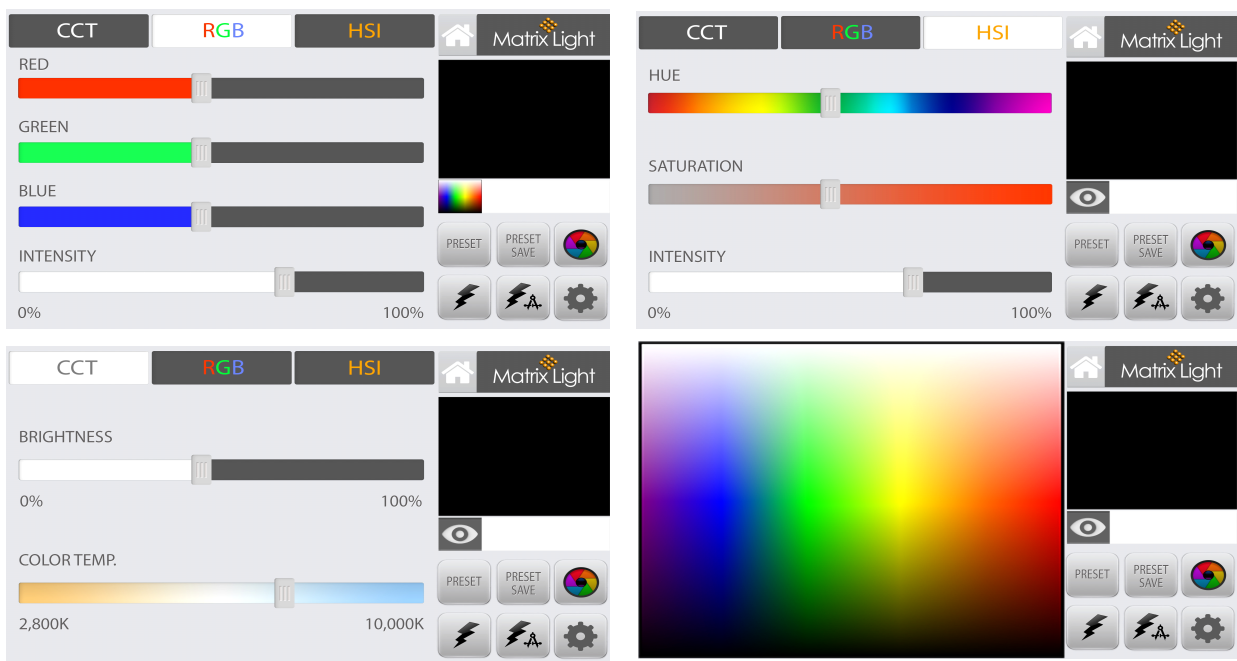
To vary the brightness or color in each color mode, drag the control bar of the touchscreen to the left or right or turn the Encoder Switch knob on the light body to fine-tune up to 0.1% units. In addition to these functions, the encoder switch also moves to each menu (turns left and right), selects (presses), and stores the current color setting (presses in the Preset menu for 3 seconds).

In particular, RGB color mode supports color palettes. In RGB color mode, touch the color palette icon to display the color palette on the screen and change it to that color when you touch the color you want.

2. Preset Function

Frequently used colors are organized in the preset menu. Users can quickly select a color preset from this menu. Colors selected from the color modes can be stored in the preset menu.
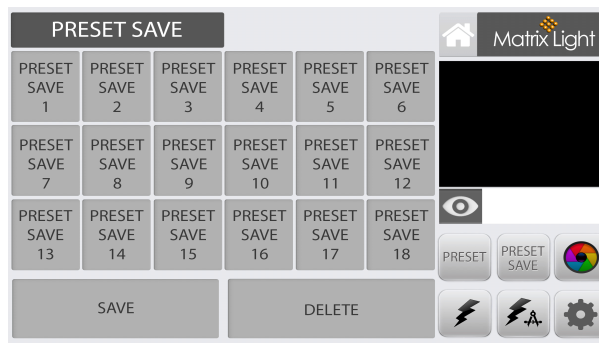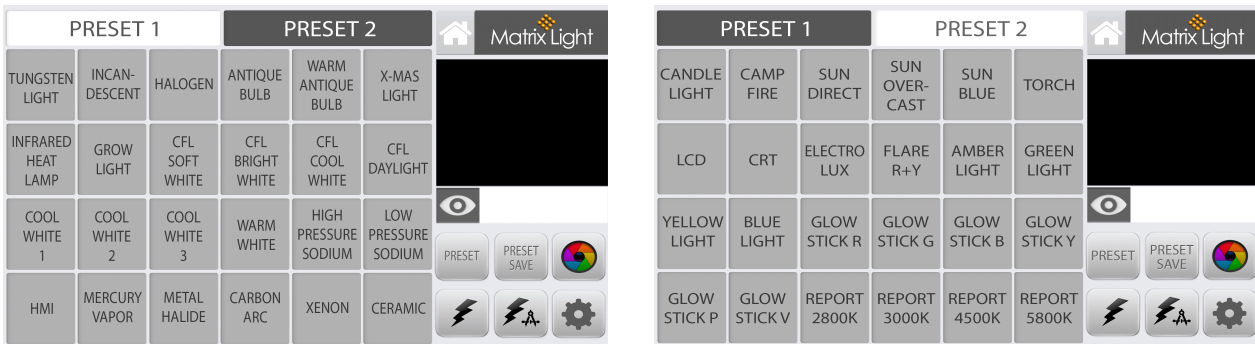
For example, if you want to save the color selected in color mode to a preset save menu, you can touch the SAVE button in the Preset Save menu and then touch the save position (for example, the Preset Save 1 button), which will save the color value you want to save and displays a dot of the color stored in the upper right corner of the button. To clear the color value, press DELETE and then press Preset to delete the stored data of that button.

3. Color Filter Menu

The Matrix Light All Light series contains specialized color filter data. It is divided into Color Filter 1 Group and Color Filter 2 Group, and the Color Filter 1 Group provides colors similar to most color filters from LEE Filter Company and the Color Filter 2 Group from Rosco Lux Company.
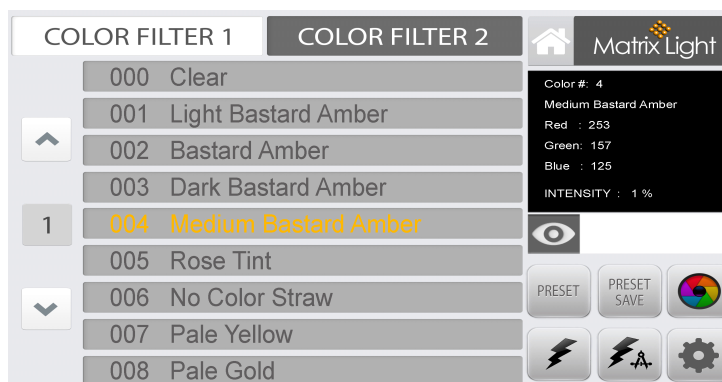
All Light provides 152 Color Filter 1 and 168 Color Filter 2 filter values. See the table below for detailed color filter names, pages where they are located, and color numbers for these filters.

Classification	PAGE	AllLight#	Color #	Color Name	Transmission [%]
Color Filter 1	1	1	2	Rose Pink	33
		2	3	Lavender Tint	75
		3	4	Medium Bastard Amber	64
		4	7	Pale Yellow	85
		5	8	Dark Salmon	35
		6	9	Pale Amber Gold	71
		7	10	Medium Yellow	87
		8	13	Straw Tint	72
		9	15	Deep Straw	61
	2	1	19	Fire	19
		2	20	Medium Amber	51
		3	21	Gold Amber	31
		4	22	Dark Amber	24
		5	24	Scarlet	19
		6	26	Bright Red	9
		7	27	Medium Red	4
		8	35	Light Pink	61
		9	36	Mesium Pink	33
	3	1	46	Dark Magenta	6
		2	48	Rose Purple	15
		3	52	Light Lavender	45
		4	53	Paler Lavender	62
		5	58	Lavender	9
		6	61	Mist Blue	62
		7	63	Pale Blue	54
		8	68	Sky Blue	13
		9	79	Just Blue	6
	4	1	85	Deeper Blue	3
		2	89	Moss Green	30
		3	90	Dark Yellow Green	11
		4	101	Yellow	80
		5	102	Light Amber	75
		6	103	Straw	82
		7	104	Deep Amber	64
		8	105	Orange	41
		9	106	Primary Red	9
	5	1	107	Light Rose	48
		2	109	Light Salman	55
		3	110	Middle Rose	47
		4	111	Dark Pink	32
		5	113	Magenta	11
		6	115	Peacock Blue	35
		7	116	Medium Blue-Green	19
		8	117	Steel Blue	55
		9	118	Light Blue	24
	6	1	119	Dark Blue	3
		2	120	Deep Blue	1
		3	121	Color Filter 1 Green	64
		4	122	Fern Green	52
		5	124	Dark Green	31
		6	126	Mauve	4
		7	127	Smokey Pink	12
		8	128	Bright Pink	14
		9	129	Heavy Frost	7
	7	1	130	Clear	95
		2	132	Medium Blue	9
		3	134	Golden Amber	38

Classification	PAGE	AllLight#	Color #	Color Name	Transmission [%]
		4	135	Deep Golden Amber	19
		5	136	Pale Lavender	43
		6	137	Special Lavender	26
		7	138	Pale Green	80
		8	139	Primary Green	15
		9	141	Bright Blue	18
	8	1	142	Pale Violet	21
		2	143	Pale Navy Blue	16
		3	144	No Colour Blue	32
		4	147	Apricot	53
		5	148	Bright Rose	14
		6	151	Gold Tint	69
		7	152	Pale Gold	71
		8	153	Pale Salmon	65
		9	154	Pale Rose	73
	9	1	156	Chocolate	26
		2	157	Pink	36
		3	158	Deep Orange	30
		4	159	No Color Straw	89
		5	161	Slate Blue	25
		6	162	Bastard Amber	78
		7	164	Flame Red	18
		8	165	Daylight Blue	20
		9	166	Pale Red	25
	10	1	170	Deep Lavender	26
		2	174	Dark Steel Blue	30
		3	176	Loving Amber	50
		4	179	Chrome Orange	54
		5	180	Dark Lavender	7
		6	181	Congo Blue	1
		7	182	Light Red	11
		8	183	Moonlight Blue	19
		9	184	Cosmetic Peach	57
	11	1	185	Cosmetic Burgundy	52
		2	186	Cosmetic Silver Rose	51
		3	187	Cosmetic Rouge	54
		4	188	Cosmetic Highlight	56
		5	189	Cosmetic Silver Moss	61
		6	190	Cosmetic Emerald	60
		7	191	Cosmetic Aqua Blue	53
		8	192	Flesh Pink	35
		9	193	Rosy Gold	36
	12	1	194	Surprise Pink	22
		2	195	Zenith Blue	3
		3	196	True Blue	27
		4	197	Alice Blue	10
		5	200	Double C.T. Blue	16
		6	201	Full C.T. Blue	34
		7	202	1/2 C.T. Blue	55
		8	203	1/4 C.T. Blue	69
		9	204	Full C.T. Orange	55
	13	1	205	1/2 C.T. Orange	71
		2	206	1/4 C.T. Orange	79
		3	207	C.T. Orange +.3 ND	32
		4	208	C.T. Orange +.6 ND	16
		5	209	.3 ND	51
		6	210	.6 ND	24
		7	211	.9 ND	14
		8	212	L.C.T. Yellow	89

| Classification	PAGE	AllLight#	Color #	Color Name	Transmission [%]
		9	213	White Flame Green	89
	14	1	218	1/8 C.T. Blue	81
		2	219	Color Filter 1 Fluorescent Green	32
		3	223	1/8 C.T. Orange	85
		4	226	Color Filter 1 U.V.	92
		5	230	Super Correction L.C.T. Yellow	42
		6	232	Super White Flame	37
		7	236	H.M.I. To Tungsten	58
		8	237	C.I.D. To Tungsten	39
		9	238	C.S.I. To Tungsten	30
	15	1	241	Color Filter 1 Fluorescent 5700K	27
		2	242	Color Filter 1 Fluorescent 4300K	37
		3	243	Color Filter 1 Fluorescent 3600K	46
		4	244	Color Filter 1 Plus Green	74
		5	245	Half Plus Green	82
		6	246	Quarter Plus Green	85
		7	247	Color Filter 1 Minus Green	59
		8	248	Half Minus Green	72
		9	249	Quarter Minus Green	82
	16	1	278	Eighth Plus Green	88
		2	279	Eighth Minus Green	87
		3	281	3/4 C.T. Blue	46
		4	285	3/4 C.T. Orange	61
		5	298	.15 ND	69
		6	299	1.2 ND	7
		7	328	Follies Pink	20
		8	332	Special Rose Pink	11
		9	343	Special Medium Lavender	6
	17	1	344	Violet	20
		2	353	Lighter Blue	41
		3	354	Special Steel Blue	39
		4	363	Special Medium Blue	4
		5	441	Full C.T. Straw	57
		6	442	Half C.T. Straw	71
		7	443	Quarter C.T. Straw	80
		8	444	Eighth C.T. Straw	83
Color Filter 2	1	1	0	Clear	100
		2	1	Light Bastard Amber	56
		3	2	Bastard Amber	78
		4	3	Dark Bastard Amber	62
		5	4	Medium Bastard Amber	66
		6	5	Rose Tint	80
		7	6	No Color Straw	92
		8	7	Pale Yellow	96
		9	8	Pale Gold	86
	2	1	9	Pale Amber Gold	74
		2	10	Medium Yellow	92
		3	11	Light Straw	82
		4	12	Straw	88
		5	13	Straw Tint	78
		6	14	Medium Straw	68
		7	15	Deep Straw	65
		8	16	Light Amber	68
		9	17	Light Flame	56
	3	1	18	Flame	56
		2	19	Fire	20
		3	20	Medium Amber	54
		4	21	Golden Amber	43
		5	22	Deep Amber	26

Classification	PAGE	AllLight#	Color #	Color Name	Transmission [%]
		6	23	Orange	32
		7	24	Scarlet	22
		8	25	Orange Red	14
		9	26	Light Red	12
	4	1	27	Medium Red	4
		2	30	Light Salmon Pink	44
		3	31	Salmon Pink	46
		4	32	Medium Salmon Pink	28
		5	33	No Color Pink	65
		6	34	Flesh Pink	45
		7	35	Light Pink	66
		8	36	Medium Pink	46
		9	37	Pale Rose Pink	56
	5	1	38	Light Rose	49
		2	40	Light Salmon	34
		3	41	Salmon	24
		4	42	Deep Salmon	8
		5	43	Deep Pink	28
		6	44	Middle Rose	26
		7	45	Rose	8
		8	46	Magenta	6
		9	47	Light Rose Purple	16
	6	1	48	Rose Purple	16
		2	49	Medium Purple	4
		3	50	Mauve	14
		4	51	Surprise Pink	54
		5	52	Light Lavender	26
		6	53	Pale Lavender	64
		7	54	Special Lavender	50
		8	55	Lilac	37
		9	56	Gypsy Lavender	4
	7	1	57	Lavender	24
		2	58	Deep Lavender	10
		3	59	Indigo	2
		4	60	No Color Blue	62
		5	61	Mist Blue	66
		6	62	Booster Blue	54
		7	63	Pale Blue	56
		8	64	Light Steel Blue	26
		9	65	Daylight Blue	35
	8	1	66	Cool Blue	67
		2	67	Light Sky Blue	26
		3	68	Sky Blue	14
		4	69	Brilliant Blue	18
		5	70	Nile Blue	45
		6	71	Sea Blue	30
		7	72	Azure Blue	44
		8	73	Peacock Blue	28
		9	74	Night Blue	4
	9	1	76	Light Green Blue	9
		2	77	Green Blue	9
		3	78	Trudy Blue	19
		4	79	Bright Blue	8
		5	80	Primary Blue	9
		6	81	Urban Blue	10
		7	82	Surprise Blue	6
		8	83	Medium Blue	4
		9	84	Zephyr Blue	14
	10	1	85	Deep Blue	3

Classification	PAGE	AllLight#	Color #	Color Name	Transmission [%]
		2	86	Pea Green	56
		3	87	Pale Yellow Green	85
		4	88	Light Green	82
		5	89	Moss Green	45
		6	90	Dark Yellow Green	13
		7	91	Primary Green	7
		8	92	Turquoise	59
		9	93	Blue Green	35
	11	1	94	Kelly Green	25
		2	95	Medium Blue Green	15
		3	96	Lime	98
		4	97	Light Grey	50
		5	98	Medium Grey	25
		6	99	Chocolate	35
		7	120	Red Diffusion	12
		8	121	Blue Diffusion	8
		9	122	Green Diffusion	13
	12	1	123	Amber Diffusion	32
		2	124	Red Cyc Silk	12
		3	125	Blue Cyc Silk	8
		4	126	Green Cyc Silk	13
		5	127	Amber Cyc Silk	32
		6	128	Magenta Silk	6
		7	129	Sky Blue Silk	14
		8	130	Medium Blue Green Silk	15
		9	131	Medium Amber Silk	54
	13	1	150	Hamburg Rose	80
		2	151	Hamburg Lavender	26
		3	152	Hamburg Steel Blue	26
		4	304	Pale Apricot	79
		5	305	Rose Gold	75
		6	312	Canary	85
		7	317	Apricot	51
		8	321	Soft Golden Amber	39
		9	337	True Pink	55
	14	1	339	Broadway Pink	15
		2	342	Rose Pink	16
		3	344	Follies Pink	21
		4	355	Pale Violet	20
		5	356	Middle Lavender	27
		6	357	Royal Lavender	5
		7	358	Rose Indigo	5
		8	359	Medium Violet	5
		9	378	Alice Blue	15
	15	1	383	Sapphire Blue	4
		2	385	Royal Blue	4
		3	388	Gaslight Green	76
		4	389	Chroma Green	40
		5	397	Pale Grey	70
		6	3102	Tough MT2	66
		7	3106	Tough MTY	57
		8	3107	Tough Y-1	93
		9	3114	Tough UV Filter	93
	16	1	3134	Tough MT 54	83
		2	3202	Full Blue (CTB)	36
		3	3203	Three-Quarter Blue (3/4 CTB)	41
		4	3204	Half Blue (1/2 CTB)	52
		5	3206	Third Blue (1/3 CTB)	64
		6	3208	Quarter Blue (1/4 CTB)	74

Classification	PAGE	AllLight#	Color #	Color Name	Transmission [%]
		7	3216	Eighth Blue (1/8 CTB)	81
		8	3220	Double Blue (2x CTB)	10
		9	3304	Tough Plusgreen / WindowGreen	76
	17	1	3308	Tough Minusgreen	55
		2	3310	Fluorofilter	36
		3	3313	Tough 1/2 Minusgreen	71
		4	3314	Tough 1/4 Minusgreen	81
		5	3315	Tough 1/2 Plusgreen	90
		6	3316	Tough 1/4 Plusgreen	92
		7	3317	Tough 1/8 Plusgreen	93
		8	3318	Tough 1/8 Minusgreen	89
		9	3401	Color Filter 2Sun 85	58
	18	1	3402	Color Filter 2 N.3	50
		2	3403	Color Filter 2 N.6	25
		3	3404	Color Filter 2 N.9	12
		4	3405	Color Filter 2Sun 85N.3	33
		5	3406	Color Filter 2Sun 85N.6	17
		6	3407	Color Filter 2Sun (CTO)	47
		7	3408	Color Filter 2Sun (1/2 CTO)	73
		8	3409	Color Filter 2Sun (1/4 CTO)	81
		9	3410	Color Filter 2Sun (1/8 CTO)	92
	19	1	3411	Color Filter 2Sun (3/4 CTO)	58
		2	3415	Color Filter 2 N.15	70
		3	3441	Full Straw (CTS)	50
		4	3442	Half Straw (1/2 CTS)	73
		5	3443	Quarter Straw (1/4 CTS)	81
		6	3444	Eighth Straw (1/8 CTS)	92
		7	3761	Color Filter 2lex 85	58

4. Effect Menu

The Matrix Light All Light series supports a wide variety of effects, and if you need a new effect in addition to the existing one, you can create your own unique effect using the Custom Effect feature.
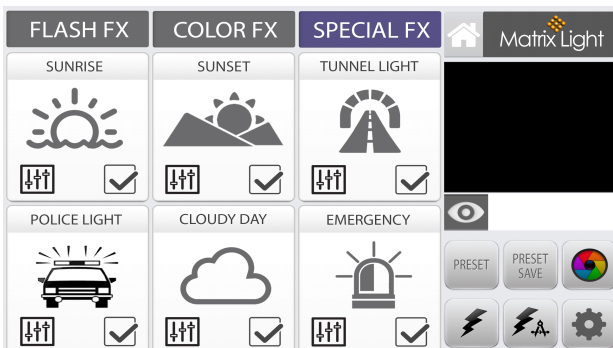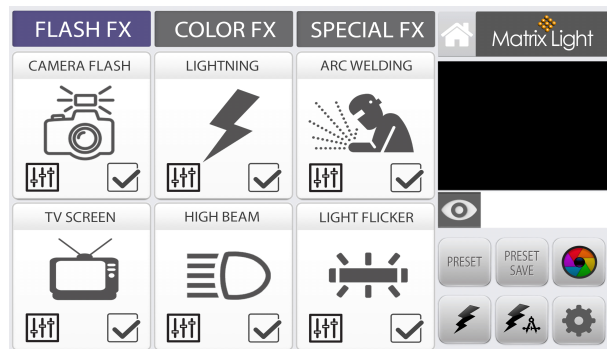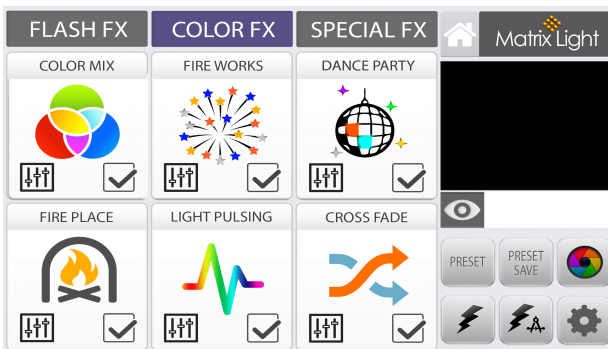
To select an effect, touch the corresponding effect menu button in the effect menu. The detailed type of effect for each effect is displayed in the information window by pressing the mode icon () in the lower right corner of the icon. To select a detailed effect and then adjust its brightness, you can adjust the brightness of the effect by turning the Encoder Switch on the light body to the desired amount. The brightness of the selected effect is displayed in the information window. To play the effect, simply press the

Apply icon () in the lower left corner of the icon. If you want to adjust the regeneration cycle of the effect, you can rotate the Encoder switch on the light body to adjust the desired length of the effect while the effect is playing.

While the effect is playing, the touchscreen functions are suspended to prevent sudden interruption of effect effects due to external interference. To stop the effect, press the encoder switch once.

Custom Effect Menu is a menu that allows you to create and use your own effects when you need new ones that are not already available. To use, select one of the buttons M1, M2, M3 (by default, M1 is selected), select the color desired by the users of R, G, and B colors, press the + button, and press the + button to create a control point at that location on the graph screen. This adjustment point can be dragged up and down, and to create additional adjustment points, press the + button again and press the desired position on the graph screen.
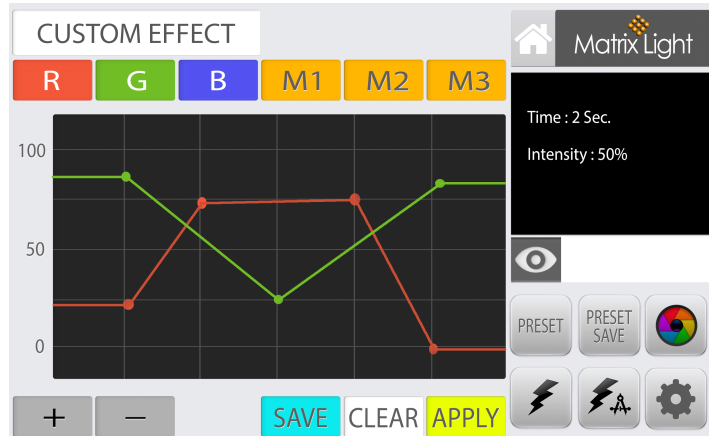
To delete a generated adjustment point, press the –button and touch the adjustment point you want to delete. Up to 15 control points can be created per R,G,B color, and all are deleted at once by pressing the Clear button. These control points appear in a curve graph. The horizontal axis of the graph represents the time of effect effects, and the vertical axis of the graph represents the brightness of the color R,G,B.

The effect can be changed up to 10 seconds in 0.1 second intervals by turning the encoder switch, and the effect will be repeated indefinitely from the beginning at the end of the specified time. The brightness of the effect can be adjusted in 1% intervals by pressing the Encoder button once and turning the button. This created effect is created by pressing the Apply button to create that effect in the light.

When the Save button is pressed, the effect is saved to the currently selected button of the M1, M2, M3 buttons. To create and save a new effect on another button, you can first select an unselected button from the M1, M2, M3 buttons and create an adjustment point to create an effect and touch the Save button.

5. System Settings Menu

The system setting menu consists of seven items.
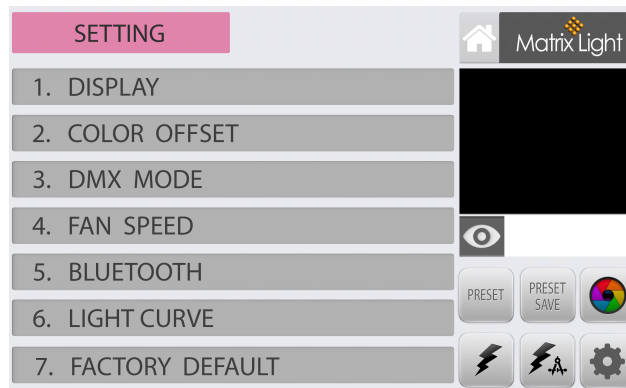
1) DISPLAY

You can set the brightness of the touch LCD panel display.

2) COLOR OFFSET

Green / Magenta points can be set to make the light more natural in the CCT mode of the LED light.

3) DMX MODE

You can set the DMX mode to 8 or 16Bit schemes, and you can set the DMX channel for all light lights.

4) FAN SPEED

You can set the number of rotations in the cooling fan in 10 steps. When Auto Mode is set, the fan automatically determines the number of rotations by checking the temperature of the instrument detected by the temperature sensor.

5) BLUETOOTH

To help distinguish between multiple All Lights, you can set 8 unique Bluetooth IDs for All Light from Matrix 01 to Matrix 08.

6) LIGHT CURVE

Light Curve sets the basic dimming curve of All Light. Light Curve has Linear Curve, Exponential Curve, Logarithmic Curve, and S Curve. The curves are as follows.

LINEAR CURVE   EXPONENTIAL CURVE   LOGARITHMIC CURVE   S CURVE
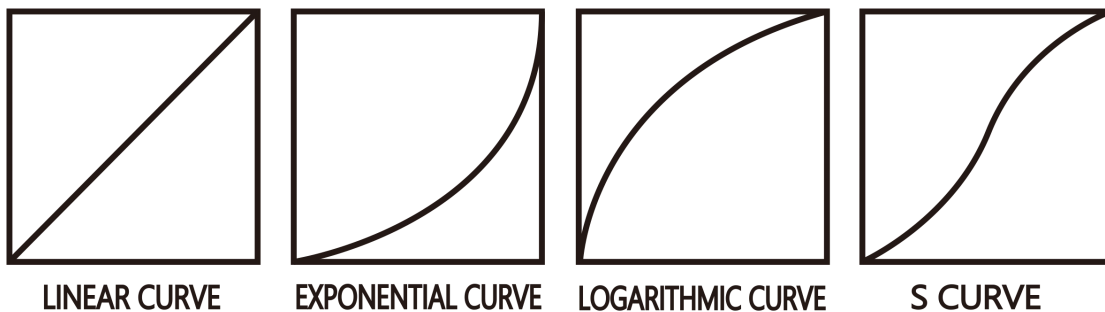
- LINEAR CURVE: The strength changes relative to the brightness value entered by the encoder or touchpanel.
- EXPONENTIAL CURVE: High at low resolution and low at high strength.
  Used when high resolution is required at low intensity levels.
- LOGARITHMIC CURVE: The resolution is low at low intensity and high at high strength.
  Use it when high resolution is required at high strength level.
- S CURVE: Resolution is high at both low and high strength levels.
  Use this dimming curve when high resolution is required at low and high intensity levels.

7) Factory Default

This function initializes all user settings in All Light. The number shown in the information window on the right indicates the time of use of the product. After a period of time, check the instrument according to the items of regular maintenance.

03. DMX Menu ••••

The DMX menu of the Matrix Light All Light consists of the following.

8 bit 1 channel per function	16 bit 2 channels per function
DMX mode 1	DMX mode 2

All Light DMX Settings					
8Bit					
MODE	**CHANNEL**	**FUNCTION**	**VALUE**	**%**	**Notes**
CCT	C+0	DIMMER	0-255	0-100	Channel set 1 - 506
	C+1	CCT	0-255	0-100	2800K - 10000K
	C+2	±GREEN	0-10 11-20 21-119 120-145 146-244 245-255	0-4 4-8 8-47 47-57 57-96 96-100	NO OffSet (0 Green) -100 Green -99 to -1 Green No OffSet (0 Green) +1 to +99 Green +100 Green
	C+3	Reserved			
	C+4	Reserved			
	C+5	CCT RGBW HSI Preset Filter Effect	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	
	C+6	FAN	0-127 128-255	0-50 50-100	Low speed Auto Fan
RGBW	C+0	DIMMER	0-255	0-100	Channel set 1 - 506
	C+1	RED	0-255	0-100	
	C+2	GREEN	0-255	0-100	
	C+3	BLUE	0-255	0-100	
	C+4	WARM	0-255	0-100	
	C+5	CCT RGBW HSI Preset Filter Effect	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	
	C+6	FAN	0-127 128-255	0-50 50-100	Low speed Auto Fan
H S I	C+0	DIMMER	0-255	0-100	Channel set 1 - 506
	C+1	HUE	0-255	0-100	0-360°
	C+2	Saturation	0-255	0-100	
	C+3	Reserved			
	C+4	Reserved			
	C+5	CCT RGBW HSI Preset Filter Effect	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	
	C+6	FAN	0-127 128-255	0-50 50-100	Low speed Auto Fan
Preset	C+0	DIMMER	0-255	0-100	Channel set 1 - 506
	C+1	FACTORY / USER MANU	0-5 6-130 131-255	0-1 2-51 51-100	Preset Trigger Disabled User Preset Selected Factory Preset Selected
	C+2	PRESET SELECT	0-42 43-85 86-127 128-170	0-16 17-33 34-50 51-66	Preset # 1 Preset # 2 Preset # 3 Preset # 4

All Light DMX Settings

8Bit

MODE	CHANNEL	FUNCTION	VALUE	%	Notes
			171-212	67-83	Preset # 5
			213-255	84-100	Preset # 6
	C+3	PRESET SELECT 2	0-31	0-12.5	Preset Page # 1 (User, Factory Preset)
			32-63	12.5-25	Preset Page # 2 (User, Factory Preset)
			64-95	25-37.5	Preset Page # 3 (User, Factory Preset)
			96-127	37.5-50	Preset Page # 4 (User, Factory Preset)
			128-159	50-62.5	Preset Page # 5 (Only Factory Preset)
			160-191	62.5-75	Preset Page # 6 (Only Factory Preset)
			192-223	75-87.5	Preset Page # 7 (Only Factory Preset)
			224-255	87.5-100	Preset Page # 8 (Only Factory Preset)
	C+4	Reserved			
	C+5	CCT	0-42	0-16	
		RGBW	43-85	17-33	
		HSI	86-127	34-50	
		Preset	128-170	51-66	
		Filter	171-212	67-83	
		Effect	213-255	84-100	
	C+6	FAN	0-127	0-50	Low speed
			128-255	50-100	Auto Fan
Filter	C+0	DIMMER	0-255	0-100	Channel set 1 - 506
	C+1	No Filter	0-5	0-1	Gel Trigger Disabled
		Color Filter 1	6-130	2-51	Color Filter 1 Filters Selected
		Color Filter 2LUX	131-255	51-100	Color Filter 2lux Selected
	C+2	FILTER SELECT	0-28	0-10	FILTER # 1
			29-56	11-21	FILTER # 2
			57-84	22-32	FILTER # 3
			85-112	33-43	FILTER # 4
			113-140	44-54	FILTER # 5
			141-168	55-65	FILTER # 6
			169-196	66-76	FILTER # 7
			197-224	77-87	FILTER # 8
			225-255	88-100	FILTER # 9
	C+3	FILTER PAGE	0-13	0-5	Filter Page # 1 (Color Filter 1, Color Filter 2)
			14-26	5-10	Filter Page # 2 (Color Filter 1, Color Filter 2)
			27-39	10-15	Filter Page # 3 (Color Filter 1, Color Filter 2)
			40-52	15-20	Filter Page # 4 (Color Filter 1, Color Filter 2)
			53-65	20-25	Filter Page # 5 (Color Filter 1, Color Filter 2)
			66-78	26-31	Filter Page # 6 (Color Filter 1, Color Filter 2)
			79-91	31-36	Filter Page # 7 (Color Filter 1, Color Filter 2)
			92-104	36-41	Filter Page # 8 (Color Filter 1, Color Filter 2)
			105-117	41-46	Filter Page # 9 (Color Filter 1, Color Filter 2)
			118-130	46-51	Filter Page # 10 (Color Filter 1, Color Filter 2)
			131-143	51-56	Filter Page # 11 (Color Filter 1, Color Filter 2)
			144-156	56-61	Filter Page # 12 (Color Filter 1, Color Filter 2)
			157-169	61-66	Filter Page # 13 (Color Filter 1, Color Filter 2)
			170-182	66-71	Filter Page # 14 (Color Filter 1, Color Filter 2)
			183-195	71-76	Filter Page # 15 (Color Filter 1, Color Filter 2)
			196-208	77-82	Filter Page # 16 (Color Filter 1, Color Filter 2)
			209-221	82-87	Filter Page # 17 (Color Filter 1, Color Filter 2)
			222-234	87-92	Filter Page # 18 (Only Color Filter 2)
			235-255	92-100	Filter Page # 19 (Only Color Filter 2)
	C+4	Reserved			
	C+5	CCT	0-42	0-16	
		RGBW	43-85	17-33	
		HSI	86-127	34-50	
		Preset	128-170	51-66	
		Filter	171-212	67-83	
		Effect	213-255	84-100	
	C+6	FAN	0-127	0-50	Low speed
			128-255	50-100	Auto Fan
Effect	C+0	DIMMER	0-255	0-100	Channel set 1 - 506
	C+1	PERIOD	0-255	0-100	Adjust the Period
	C+2	1~6	0-42	0-16	<FLASH>
			43-85	17-33	1.Camera, 2.Lightning, 3.ARC
			86-127	34-50	4.TV, 5.High Beam, 6.Light Flicker
			128-170	51-66	<COLOR>
			171-212	67-83	1.Color Mix, 2.Fire Works, 3.Party
			213-255	84-100	4.Fire, 5.Light Pulsing, 6.Cross Fade

All Light DMX Settings

8Bit

MODE	CHANNEL	FUNCTION	VALUE	%	Notes
					\<SPECIAL\> 1.Sunrise, 2.Sunset, 3.Tunnle 4. Police, 5.Cloudy, 6.Emergency
	C+3	FX Mode	0-85 86-170 171-255	0-33 33-67 67-100	Select Action Mode 1-3
	C+4	FLASH COLOR SPECIAL	0-85 86-170 171-255	0-33 33-67 67-100	Select Effect \<FLASH\>,\<COLOR\>,\<SPECIAL\>
	C+5	CCT RGBW HSI Preset Filter Effect	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	
	C+6	FAN	0-127 128-255	0-50 50-100	Low speed Auto Fan

All Light DMX Settings

16Bit

| MODE	CHANNEL	FUNCTION	VALUE	%	Notes
CCT	C+0(H)	DIMMER	0-65535	0-100	Channel set 1 - 501
	C+1(L)				
	C+2(H)	CCT	0-65535	0-100	2800K - 10000K
	C+3(L)				
	C+4(H)	±GREEN	0-5000 5001-10000 10001-29999 30000-40000	0-7 8-15 16-46 46-61	NO color (0 Green) -100 Green -99 to -1 Green No color (0 Green)
	C+5(L)		40001-59999 60000-65535	61-92 92-100	+1 to +99 Green +100 Green
	C+6	Reserved			
	C+7	Reserved			
	C+8	Reserved			
	C+9	Reserved			
	C+10	FAN	0-127 128-255	0-50 50-100	Low speed Auto Fan
	C+11	CCT RGBW HSI Preset Filter Effect	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	
RGBW	C+0(H)	DIMMER	0-65535	0-100	Channel set 1 - 501
	C+1(L)				
	C+2(H)	RED	0-65535	0-100	
	C+3(L)				
	C+4(H)	GREEN	0-65535	0-100	
	C+5(L)				
	C+6(H)	BLUE	0-65535	0-100	
	C+7(L)				
	C+8(H)	WHITE	0-65535	0-100	
	C+9(L)				
	C+10	FAN	0-127 128-255	0-50 50-100	Low speed Auto Fan
	C+11	CCT RGBW HSI Preset	0-42 43-85 86-127 128-170	0-16 17-33 34-50 51-66	

All Light DMX Settings

16Bit

MODE	CHANNEL	FUNCTION	VALUE	%	Notes
		Filter Effect	171-212 213-255	67-83 84-100	
H S I	C+0(H)	DIMMER	0-65535	0-100	Channel set 1 - 501
	C+1(L)				
	C+2(H)	HUE	0-65535	0-100	
	C+3(L)				
	C+4(H)	SATURATION	0-65535	0-100	
	C+5(L)				
	C+6	Reserved			
	C+7	Reserved			
	C+8	Reserved			
	C+9	Reserved			
	C+10	FAN	0-127 128-255	0-50 50-100	Low speed Auto Fan
	C+11	CCT RGBW HSI Preset Filter Effect	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	
Preset	C+0(H)	DIMMER	0-65535	0-100	Channel set 1 - 501
	C+1(L)				
	C+2	FACTORY / USER MANU	0-5 6-130 131-255	0-1 2-51 51-100	Preset Trigger Disabled User Preset Selected Factory Preset Selected
	C+3	PRESET SELECT	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	Preset # 1 Preset # 2 Preset # 3 Preset # 4 Preset # 5 Preset # 6
	C+4	PRESET SELECT 2	0-31 32-63 64-95 96-127 128-159 160-191 192-223 224-255	0-12.5 12.5-25 25-37.5 37.5-50 50-62.5 62.5-75 75-87.5 87.5-100	Preset Page # 1 (User, Factory Preset) Preset Page # 2 (User, Factory Preset) Preset Page # 3 (User, Factory Preset) Preset Page # 4 (User, Factory Preset) Preset Page # 5 (Only Factory Preset) Preset Page # 6 (Only Factory Preset) Preset Page # 7 (Only Factory Preset) Preset Page # 8 (Only Factory Preset)
	C+5	Reserved			
	C+6	Reserved			
	C+7	Reserved			
	C+8	Reserved			
	C+9	Reserved			
	C+10	FAN	0-127 128-255	0-50 50-100	Low speed Auto Fan
	C+11	CCT RGBW HSI Preset Filter Effect	0-42 43-85 86-127 128-170 171-212 213-255	0-16 17-33 34-50 51-66 67-83 84-100	
Filter	C+0(H)	DIMMER	0-65535	0-100	Channel set 1 - 501
	C+1(L)				
	C+2	Color Filter 1 / Color Filter 2LUX	0-5 6-130 131-255	0-1 2-51 51-100	Gel Trigger Disabled Color Filter 1 Filters Selected Color Filter 2lux Selected
	C+3	FILTER SELECT	0-28 29-56 57-84	0-10 11-21 22-32	FILTER # 1 FILTER # 2 FILTER # 3

All Light DMX Settings

16Bit

MODE	CHANNEL	FUNCTION	VALUE	%	Notes
			85-112	33-43	FILTER # 4
			113-140	44-54	FILTER # 5
			141-168	55-65	FILTER # 6
			169-196	66-76	FILTER # 7
			197-224	77-87	FILTER # 8
			225-255	88-100	FILTER # 9
	C+4	FILTER PAGE	0-13	0-5	Filter Page # 1 (Color Filter 1, Color Filter 2)
			14-26	5-10	Filter Page # 2 (Color Filter 1, Color Filter 2)
			27-39	10-15	Filter Page # 3 (Color Filter 1, Color Filter 2)
			40-52	15-20	Filter Page # 4 (Color Filter 1, Color Filter 2)
			53-65	20-25	Filter Page # 5 (Color Filter 1, Color Filter 2)
			66-78	26-31	Filter Page # 6 (Color Filter 1, Color Filter 2)
			79-91	31-36	Filter Page # 7 (Color Filter 1, Color Filter 2)
			92-104	36-41	Filter Page # 8 (Color Filter 1, Color Filter 2)
			105-117	41-46	Filter Page # 9 (Color Filter 1, Color Filter 2)
			118-130	46-51	Filter Page # 10 (Color Filter 1, Color Filter 2)
			131-143	51-56	Filter Page # 11 (Color Filter 1, Color Filter 2)
			144-156	56-61	Filter Page # 12 (Color Filter 1, Color Filter 2)
			157-169	61-66	Filter Page # 13 (Color Filter 1, Color Filter 2)
			170-182	66-71	Filter Page # 14 (Color Filter 1, Color Filter 2)
			183-195	71-76	Filter Page # 15 (Color Filter 1, Color Filter 2)
			196-208	77-82	Filter Page # 16 (Color Filter 1, Color Filter 2)
			209-221	82-87	Filter Page # 17 (Color Filter 1, Color Filter 2)
			222-234	87-92	Filter Page # 18 (Only Color Filter 2)
			235-255	92-100	Filter Page # 19 (Only Color Filter 2)
	C+5	Reserved			
	C+6	Reserved			
	C+7	Reserved			
	C+8	Reserved			
	C+9	Reserved			
	C+10	FAN	0-127	0-50	Low speed
			128-255	50-100	Auto Fan
	C+11	CCT	0-42	0-16	
		RGBW	43-85	17-33	
		HSI	86-127	34-50	
		Preset	128-170	51-66	
		Filter	171-212	67-83	
		Effect	213-255	84-100	
Effect	C+0(H)	DIMMER	0-65535	0-100	Channel set 1 - 501
	C+1(L)				
	C+2(H)	PERIOD	0-65535	0-100	Adjust the Period
	C+3(L)				
	C+4	1~6	0-42	0-16	<FLASH>
			43-85	17-33	1.Camera, 2.Lightning, 3.ARC
			86-127	34-50	4.TV, 5.High Beam, 6.Sun Light
			128-170	51-66	<COLOR>
			171-212	67-83	1.Emergency, 2.Fire Works, 3.Party
			213-255	84-100	4.Fire, 5.Light Pulsing, 6.Tunnle
	C+5	FX Mode	0-85	0-33	Select Action Mode 1-3
			86-170	33-67	
			171-255	67-100	
	C+6	FLASH	0-127	0-50	Select Effect
		COLOR	128-255	50-100	<FLASH>,<COLOR>
	C+7				
	C+8				
	C+9				
	C+10	FAN	0-127	0-50	Low speed
			128-255	50-100	Auto Fan
	C+11	CCT	0-42	0-16	
		RGBW	43-85	17-33	
		HSI	86-127	34-50	
		Preset	128-170	51-66	
		Filter	171-212	67-83	
		Effect	213-255	84-100	

04. Bluetooth Connection and App Operation ••

The Matrix Light All Light supports Bluetooth 4.0 mode and allows remote control of all lights through apps on Android or iOS-based wireless devices. For the Matrix Light All Light app, download and install the Matrixlight.apk file from the Matrix Light homepage, the Google Play store, or the Apple App Store, or search for the Matrix Light or All Light and install the app on your mobile device.

After the All Light app is installed, turn on the Bluetooth feature on the Android-based wireless device and run the All Light app. On the menu screen of the All Light app, press the Bluetooth button to search for Bluetooth equipment and select a device that starts with "All Light" to connect.

The menu operation of the app is similar to the touchscreen menu of the All Light. Some functions may be provided in a different form from the touchscreen menu of the All Light, considering the transmission speed of the wireless connection and smooth operation.

Fine-tuning Slide

Encoder Button   Bluetooth Connection Button
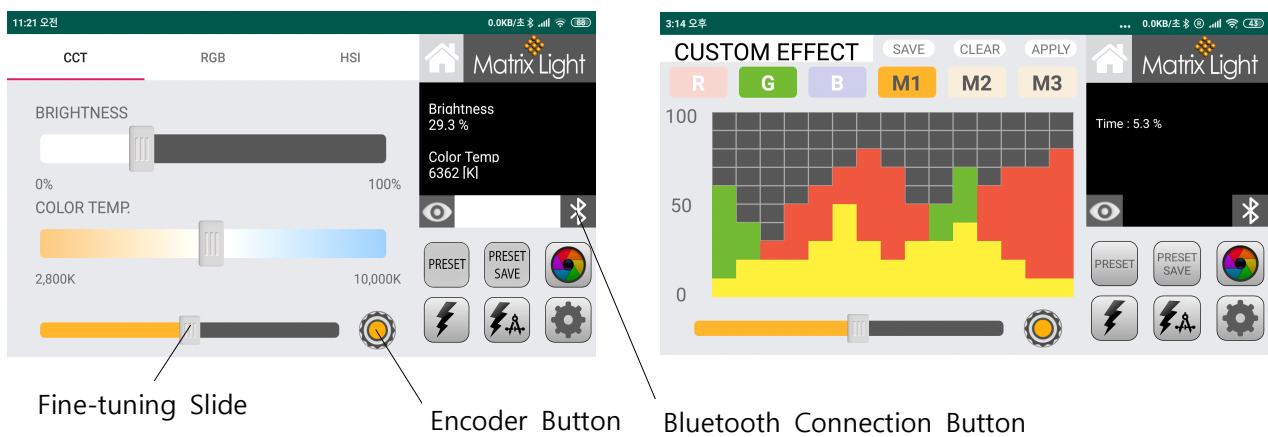
To connect to Bluetooth, press the Bluetooth connection button for the application. When Bluetooth is connected, the Bluetooth connection button changes color to blue.

When you connect the All Light with Bluetooth, the touchscreen features on the All Light body will disabled until the Bluetooth connection is disabled. To re-enable the touchscreen feature of the All Light, you must turn off the Bluetooth connection.

The different menu configurations and functions of the application are similar to the menu configuration of the touch control panel in All Light.

For the Custom Effect, the horizontal axis in the grid area represents time and the vertical axis represents brightness.

To create a custom effect, touch the desired part of the tick display area to automatically fill the area below the touch. Also, if you select a different color and touch the desired part, the area below the touch is automatically filled, and the area overlaps with the previously selected color is displayed in a mixture of that color. To set the repeat time of the custom effect, you can set the repeat time between 0 and 10 seconds by moving the fine adjustment slide from side to side. Press the "SAVE" button at the top to save the created custom effect. To save the M1, M2, M3 buttons to the desired button, select one of the M1, M2, M3 buttons first, create a custom effect, and press the "SAVE" button to save the custom effect to the selected memory button. Press the "CLEAR" button to clear the stored custom effect or to clear the currently created custom effect.

The Bluetooth modules on the Matrix Light All Light operate at approximately 10M distances. However, the range of operation may be reduced in areas where there is a lot of shielding, indoors or in areas where there is a lot of electromagnetic waves. To increase the reach of the Bluetooth module, use the Bluetooth antenna located at the top of the rear of the All Light, and make sure to fold and store the antenna when you are not using the Bluetooth connection.

●●● Trouble Shooting

01. Check Point ●●●

If the light or battery doesn't work properly, check the following points first. If this does not solve the problem, please contact your local distributor or the Matrix Light service center.

Symptom	Check Point
Power is not working	■ Is there a power supply or battery connected to the light? Correctly connect the power supply or connect the charged battery to the light. ■ Is the battery less charged? Fully charge the battery, or replace with another charged battery. ■ Is it connected correctly? Make sure that the power terminals and lights are correctly connected with the power cable. See page 14 and 15.
The lights don't work even though the power cable is connected to a charged battery or power supply.	■ Make sure that the switch on the power supply is turned on securely. ■ Make sure the inside temperature of the light is not too high. Turn off the light and let it cool for a while.
The power goes off automatically.	■ Make sure there is not enough battery charge. If the battery is running low, charge it again. ■ Make sure the inside temperature of the light is not too high. Turn off the light and let it cool for a while.
The noise from the cooling fans is too loud.	■ Make sure that the front and rear of the light are not blocked. ■ Check for dust or foreign substances outside the light. ■ If there is a lot of dust outside the light, blow the dust lightly with a blower, then wipe it lightly with a soft, clean cloth. ■ Make sure that only the high temperature or light is used in a confined and confined space for a long time. ■ To protect your device, avoid putting it in a hot and humid place or in a separate sealed case.
The battery is running out fast.	■ This may occur if the ambient temperature is too low. It's not a fault. ■ The battery is not sufficiently charged. Recharge the battery. If the problem persists, replace with a new battery. ■ Is the battery out of life? Replace with a new battery.

••• Other information

01. Warranty •••

● Free warranty period for products is one year after purchase.

● Faults caused by customer negligence or natural disasters are serviced for free even during the service period.

● To receive free service, please send the receipt with the purchase date to the head office or agency or visit the service center.

02. Storage method •••

● Store in a well-ventilated, dry place.

● Do not place near naphthalene or magnetic-producing instruments.

● Do not leave it in high temperatures (in the car in summer, near the stove, etc.).

● Remove the power supply, battery, and light after filming.

● If you move to a place with a high temperature difference, you may see drops of water inside the light, power supply or battery. If possible, put it in a bag or plastic bag and use it after you become familiar with the temperature around it.

03. Product specifications •••

Lamp Head	
Optical System	Soft Diffusion Panel
Light Aperture	ML-AL1: 310 x 166 mm / 12.2 x 6.5″ (All Light 1) ML-AL2: 310 x 310 mm / 12.2 x 12.2″ (All Light 2) ML-AL4: 610 x 310 mm / 24.4 x 12.2″ (All Light 4)
Beam Angle	115º (Half Peak Angle)
Weight	ML-AL1: 6.5kg/14.3lbs (All Light 1) ML-AL2: 8.9kg/19.6lbs (All Light 2) ML-AL4: 16kg/35.3lbs (All Light 4)
Handling	Aluminum Yoke, High Strength Tilt Lock, Pole Operation Option (Pan & Tilt)
Mounting	16 mm / 28 mm Combo Pin (Baby 5/8″ / Junior 1-1/8″ Combo Pin)
Tilt Angle	+/- 90°
Lamphead Voltage Input	48 V DC
Power Consumption	48V DC / 2.6A / 110 W Nominal, 120 W Maximum (All Light 1) 48V DC / 5.2A / 220 W Nominal, 290 W Maximum (All Light 2) 48V DC / 10.4A / 450 W Nominal, 580 W Maximum (All Light 4)
Lamphead Power Connection	Male 3-Pin XLR - 15 Amp (Pin 1: Negative / Pin 2: Positive)
Battery Connector	Male 3-Pin XLR - 15 Amp (Pin 1: Negative / Pin 2: Positive)
Battery DC Voltage Range	48 V DC
Battery Mode Light Output	100 % of total output
White Light	2,800 K to 10,000 K continuously variable correlated color temperature
Colored Light	Full RBG+WW+PW color gamut with Hue and Saturation control
Color Temperature Tolerance	+/- 100 K (nominal), +/- 1/8 Green-Magenta (nominal)
Color Rendition	CRI Average > 95 TLCI Average > 91
Green-Magenta Adjustment	continuously adjustable (Full Minusgreen to Full Plusgreen)
Dimming	0 to 100 % continuous
Control	On-Board Controller, 5-Pin DMX In and Through, RJ45 LAN network connectivity, USB-A
Bluetooth Connectivity	DMX Setup, Hour Counter and Standard Control commands

Lamp Head

Software Interface	RJ45: DMX In and Through USB-A: Software Upgrade via flash drive
Housing Color	Orange / Silver, Black, White
Ambient Temperature Operation	-20 to +45º C (-4 to +113º F)
Protection Class / IP Rating	III / IP20
Estimated LED Lifetime (L70)	50,000 hours
Estimated Color Shift Over Lifetime (CCT)	+/- 5 %

Power Supply Unit

Power Supply Input Range	110 to 240 V ~, 50/60 Hz
Power Supply Output Range	48 V DC
Power Input Connection	PowerCON TRUE1 (Bare Ends / Schuko / Edison cables available)
Power Output Connection	Female 3-Pin XLR - 10 Amp (Pin 1: Negative / Pin 2: Positive) PowerCON TRUE1 (mains power through)
Weight	ML-APS1: 2.5Kg/5.5lbs ML-APS2: 2.9Kg/6.4lbs ML-APS4: 4.9Kg/10.8lbs
Dimensions	348 x 124 x 70 mm / 13.7 x 5.4 x 2.8" (ML-APS1,2) 390 x 176 x 76 mm / 15.3 x 6.9 x 3.0" (ML-APS4)
Control	On-Board On/Off Switch
Mounting	All Light ML-AT2 Quick Release Clamp Adapter / ML-QR1 Rail Mount Adapter

Photometric Data

	3 m / 9.8 ft		5 m / 16.4 ft		7 m / 23 ft		9 m / 29.5 ft	
All Light 1	3,200 K	5,600 K	3,200 K	5,600 K	3,200 K	5,600 K	3,200 K	5,600 K
All Light 1 with Standard Diffusion	414 lx	406 lx	149 lx	146 lx	76 lx	74 lx	46 lx	45 lx
	38 fc	38 fc	14 fc	14 fc	7 fc	7 fc	4 fc	4 fc
All Light 1 with Lite Diffusion	448 lx	437 lx	161 lx	157 lx	82 lx	80 lx	50 lx	49 lx
	42 fc	41 fc	15 fc	15 fc	7 fc	7 fc	5 fc	5 fc
All Light 1 with Heavy Diffusion	343 lx	333 lx	124 lx	120 lx	63 lx	61 lx	38 lx	37 lx
	32 fc	31 fc	11 fc	11 fc	6 fc	5 fc	3 fc	3 fc

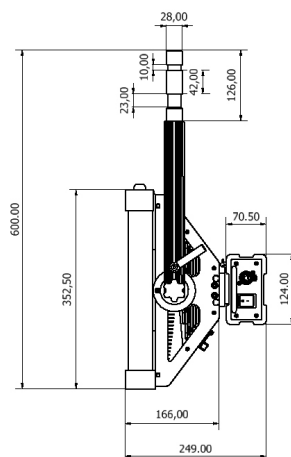|	3 m / 9.8 ft		5 m / 16.4 ft		7 m / 23 ft		9 m / 29.5 ft	
All Light 2	3,200 K	5,600 K	3,200 K	5,600 K	3,200 K	5,600 K	3,200 K	5,600 K
All Light 2 with Standard Diffusion	829 lx	811 lx	298 lx	292 lx	153 lx	149 lx	92 lx	90 lx
	77 fc	76 fc	28 fc	27 fc	14 fc	14 fc	8 fc	8 fc
All Light 2 with Lite Diffusion	895 lx	873 lx	323 lx	315 lx	165 lx	161 lx	100 lx	97 lx
	84 fc	81 fc	30 fc	30 fc	15 fc	15 fc	9 fc	9 fc
All Light 2 with Heavy Diffusion	686 lx	667 lx	247 lx	240 lx	126 lx	123 lx	76 lx	74 lx
	63 fc	62 fc	23 fc	23 fc	12 fc	11 fc	7 fc	7 fc

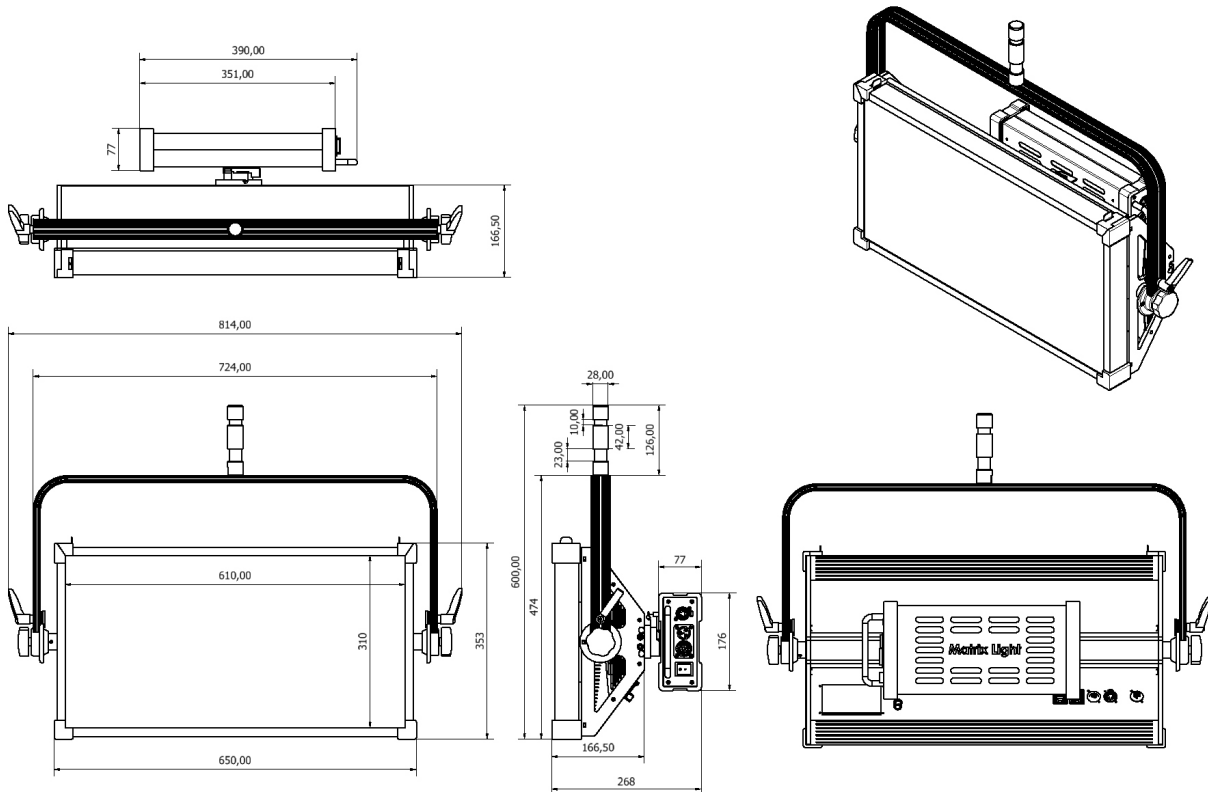|	3 m / 9.8 ft		5 m / 16.4 ft		7 m / 23 ft		9 m / 29.5 ft	
All Light 4	3,200 K	5,600 K	3,200 K	5,600 K	3,200 K	5,600 K	3,200 K	5,600 K
All Light 4 with Standard Diffusion	1658 lx	1623 lx	597 lx	583 lx	305 lx	297 lx	184 lx	181 lx
	154 fc	151 fc	57 fc	54 fc	27 fc	27 fc	16 fc	16 fc
All Light 4 with Lite Diffusion	1790 lx	1747 lx	645 lx	629 lx	329 lx	321 lx	200 lx	194 lx
	167 fc	162 fc	59 fc	59 fc	30 fc	30 fc	19 fc	19 fc
All Light 4 with Heavy Diffusion	1372 lx	1334 lx	494 lx	481 lx	251 lx	246 lx	151 lx	149 lx
	127 fc	124 fc	46 fc	46 fc	24 fc	22 fc	14 fc	14 fc

Product Dimension

All Light 1
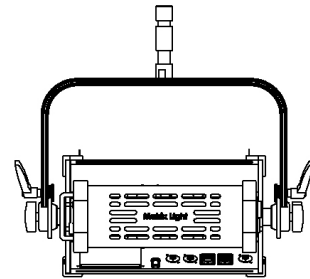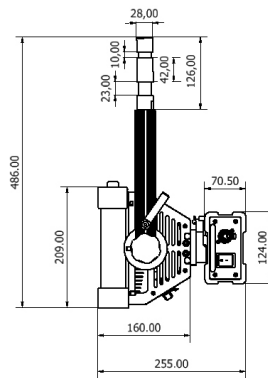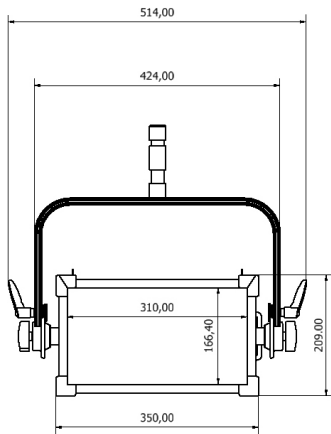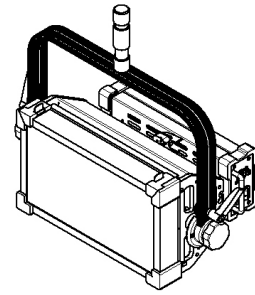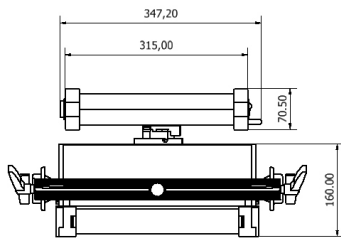
All Light 2
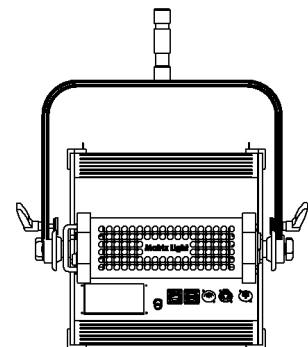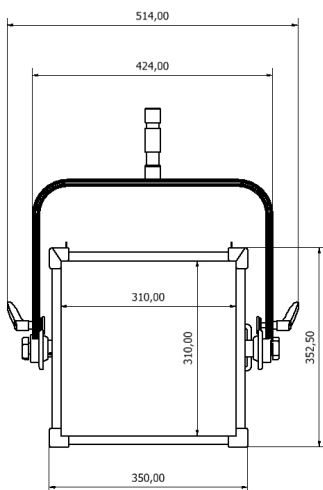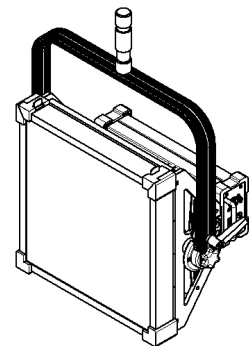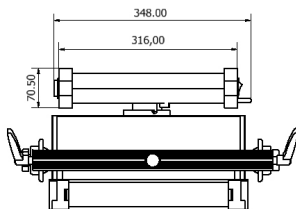
All Light 4

04. Product A/S information ••

● Visit the Matrix Light website at www.matrixlight.com or call 02-782-2888 for A/S related inquiries in Korea.

● For overseas A/S-related inquiries, visit the Matrix Light website at www.matrixlight.com or email csmatrixlight@gmail.com

● For guidance on overseas A/S-related agencies and service centers, visit the Matrix Light website at www.matrixlight.com or contact us at csmatrixlight@gmail.com

● For product A/S related inquiries, please tell us the serial number of the product, the date of purchase of the product, the place of purchase of the product, and the details of the defect, for faster service.

Thank you