MISO○NICS®
Korean No.1 LED lights

Imaging Lighting Equipment

MISONICS Corp.
www.misonics.com

penta Ultra 2X1
Korean No.1 LED Lights

penta Ultra 120, 200

MISONICS is a Korean manufacture lighting company that manufactures High-quality lighting.
We develop and supply specialized lighting devices and standard light sources to many large companies such as Samsung, LG, SK, and Hyundai Motor and also manufacturing and
selling broadcasting Lighting for domestic and foreign studio.

The biggest feature of penta is the ability to implement more than 1 billion colors.
That is the most of the kind colors from among existing RGB lights. It's possible by dint of controlling for each color about 255 stages of Red, Green and Blue and two kinds of White.
Penta RGBW lighting is the high-tech agglomeration of MISONICS which is more lighter and has more special features than other equivalent spec panel lights.
It provides cable&wireless control, industry-leading CRI, TLCI, soft light quality and powerful output.

| DMX 512 | Wi-Fi | Data Save | Bi-Color | Expanded CCT | RGB Control | HUE Control | Gel Mode | Mobile App |

CCT, HSI, RGB, GEL

Gel Mode
The Gel mode or Filter mode is a special feature that shows results similar to those applied with transparent color filter or jelly-color on white light-source.
Output can be also too the DMX console.

Exact Color Reproduction

For implementing close to the sunlight, we use ultra high-end LED emitting. With the technology of the MISONICS, white beam is mixed at the most ideal rate to achieve accurate color temperature.

penta Ultra 120

Ultra Power

Our RGB Light apply Individual Output about each color of Red, Green, Blue, Warm White and Cool White.
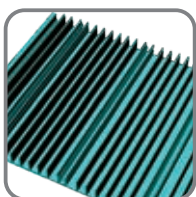It improves 200% over Output and also enables to get clearer, more powerful and more accurate color reproduction.

Extended Color Temperature

Only Penta Ultra offers extended Color Temperature Range, from 2,000K up to 10,000K.
If you use white only, it offers standard Color Temperature Range, from 2,700K up to 6,500K.

penta Ultra 200

Super strong without noise

This is broadcast-only Light that has special Active cooling method without cooling fan, it eliminates noise and heat.
Even though it has powerful Output(200W or 120W), It maintains the temperature at 44℃ during the operation.
And also It applies perfect Flicker-Free and has low-weight.

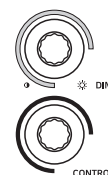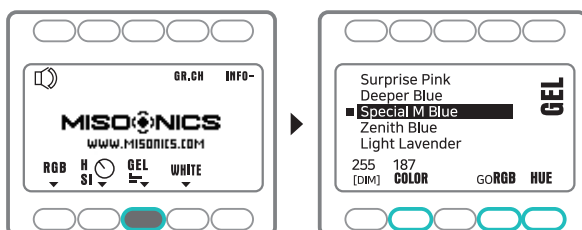## GEL Mode Operation Description

GEL Mode

Go to onscreen menu
GEL MODE
▶ Dim
▶ GEL Color
▶ Go RGB
▶ Go HUE

MISONICS
WWW.MISONICS.COM

RGB · H SI · GEL · WHITE

Surprise Pink
Deeper Blue
■ Special M Blue
Zenith Blue
Light Lavender
255 187
[DIM] COLOR   GORGB HUE

GEL

DIM

CONTROL

GEL Mode :
Dim : DIM 0~255
GEL Mode Color Select : Control

ITEM	PENTA Ultra 120	PENTA Ultra 200
Input Power(V)	AC 220V / DC 24V Adaptor	
Output Power(W/h)	120W	200W
CCT(K)	2700 ~ 6300K(±150K) or 2000 ~ 10000K(±300K), RGB Control	
Illumination(lx/1m)	2,900 lx	5,000 lx
Illumination(lx/2m)	780 lx	1,400 lx
CRI	CRI>95	
Light Angle	110º	
Dimming Range	Dim - 1 to 255 / HUE - 1 to 360º / RGB - 1 to 255 / Saturation	
Light Adjustment	Step Dial / Wires - iOS or Android, PC Wi-Fi / DMX512 Console, DMX512 PC(APP)	
Status Indicator(OLED Display)	Dim / CCT / RGB control / HUE control / Chase play / DMX CH. / Data save & run / Etc...	
Factory Adjustment	Yes	
Angle Adjustment	Bracket / Ban Door	
Cooling	Without cooling fan / Noise free	
Size(W X H X D) mm / in	4.2Kg / 9.26 lb	6.5Kg / 12.125 lb
Weight(kg / lb)	325 X 325 X 75mm	630 X 325 X 75mm
Ban Door(kg / lb)	Optional	Optional

FLOOD **PL Series**

PL 200W

- ● **Max Output 200W**
- ● **Bi-Color Control**
- ● **CCT Calibration**
- ● **DMX CH. On/Off**
- ● **Data Save**
- ● **High Quality OLED Display**

DMX 512   Bi-Color   Flicker Free

OLED Display

- IP, Wi-Fi
- Menu
- Power Mode
- DMX ID
  CH, On/Off
- Dimming
- DIM
  0~100%
  0~255 Step
- Color Temp
- Data Load
- Data Save

Display content:
DMX POWER MENU IP.WiFi
CH:999 NORMAL M 999
ON <<< 1000W
255 255 6500 K M2
DIM. 0-100% COLOR LOAD SAVE
       0-255 TEMP.

Operation

- Indicator
  White OLED Display
- Function Button
  Enter the menu
- Home Key
  Return to Home
- Step Dial
  UP & Down

UP   HOME   DOWN

32,768 Pixel High Quality OLED Display

PL 200 - Max 200W

OLED Display Controller

V Mount

Full Aluminum Housing

We apply most of the parts with high purity aluminum including the main frame and frame bracket, heat sink, back panel, yoke, etc.
It's durable and enable to maintaining performance in extreme conditions.
And also due to its excellent heat dissipation function, the LED light has the longer life.

Premium Hard&Powder Coating

Each frame are coated with a hard coating and external housing components such as back panels and Barn-door are coated Powder Coating.
These premium coating method enable to suppresses oxidation and protect scratch from external shock.

Exclusive Adapter Bracket

The newly applied adapter bracket provides a portable or fixed way to operate the equipment.
Because It make the power adapter always integrated with the light to ensure safe use during the operation.
It's always attached to the light body, Even if unexpected external shocks such as falling occurs, it prevents blackouts of lighting.

Softened LED Light Source

We replace material of the diffuser (Optical Diffusion Plate) with an improved product.
And also we adjust the distance between the light source and the diffuser to minimize fatal weakness of LED light sources.
Minimizing the Moire Phenomenon improve the quality of the video production.

Perfect Flicker Free

All LED lights manufactured by MISONICS have No Flicker at all.
The PWM method, which doesn't require a special control signal, is completely excluded.
With Constant current&constant Voltage Control Technology by the Microcomputer Circuit, Flickers are not occured and can be controlled accurately in any condition.

ITEM	PL-200D
Input(V)	AC 90V ~ 260V(Free voltage) / DC 24V adaptor / DC 24V External Battery(Optional)
Max. Power	200W
Color Temperature(K)	3000~6200K(±150K) - Temp. Control
Illumination(lx/1m)	5,000 lx
Illumination(lx/2m)	1,400 lx
CRI	CRI>95 (Typ 98)
Light Angle	110º
Dimming Range	0 to 255 (0~100%) - 2 Type
Light Adjustment	Step dial(Digital) & function key - DMX 512 / Color temp / Color temp calibration / Data save & load / DMX On-Off
Fixation	Fixed to the ceiling or stand
Angle Adjustment	Bracket / Ban Door
Status Indicator(OLED Display)	Dim(0~255, 0~100%) / Color temp / Power output(W) / Network state / DMX channel
Cooling	Without cooling fan / Noise free
Size(W X H X D) mm / in	630X330X58mm / 24.8X13X2.28in
Weight(kg / lb)	4.6kg / 10.14lb
Ban Door(kg / lb)	1.5kg / 3.31lb

FLOOD PX Series

- ● **Max Output 100W / 200W**
- ● **Bi-Color Control (Optional)**
- ● **Dual input power (Optional)**

DMX 512 Bi-Color Flicker Free

DMX control
Dual input power (Optional)

DMX control
Dual input power (Optional)

Dimming / DMX ID select
Color temp control (Optional)

Max Power 100W(Mono)

Max Power 100W(Bi-Color)

Max Power 200W

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ITEM	PX	PX1	PX2
Input(V)	AC 90V ~ 260V(Free voltage) / DC 24V adaptor / DC 24V External Battery(Optional)		
Max. Power	50W	100W	200W
Color Temperature(K)	3200K / 5600K or 3000~6200K(±150K)-Temp. Control(Optional)		
Illumination(lx/1m)	1,450 lx	2,400 lx	5,000 lx
Illumination(lx/2m)	380 lx	780 lx	1,400 lx
CRI	CRI>95		
Light Angle	110º		
Dimming Range	0 to 255		
Light Adjustment	Step dial control - Dimming / DMX Ch. / Color temp / DMX On-Off Switch		
Fixation	Fixed to the ceiling or stand		
Angle Adjustment	Bracket / Ban Door		
Status Indicator	Dimming step / DMX485 Channel		
Cooling	Without cooling fan / Noise free		
Size(W X H X D) mm / in	330X230X45mm / 13X9.06X1.48in	530X230X45mm / 20.9X9.06X1.48in	630X330X58mm / 24.8X13X2.28in
Weight(kg / lb)	2.0kg / 4.41lb	3.0kg / 6.61lb	4.6kg / 10.14lb
Ban Door(kg / lb)	1.0kg / 2.2lb	1.2kg / 2.65lb	1.5kg / 3.31lb

FLOOD SQ33

Perfect Flicker Free

All LED lights manufactured by MISONICS have No Flicker at all.
The PWM method, which doesn't require a special control signal, is completely excluded.
With Constant current&constant Voltage Control Technology by the Microcomputer Circuit, Flickers are not occured and can be controlled accurately in any condition.

DMX 512	Bi-Color	Flicker Free

SQ 33 specification

Input Power	: DC 24V(Adaptor)
Power Output	: 100W
CCT(K)	: 5600K(±150K) or 3000~6200K(±150K)-CCT(Optional)
Illumination(lux)	: 2400@1m / 780@2m
Delta UV	: ±0.004
CRI	: CRI > 95 (TYP 97)
Light Angle	: 110º
Dim	: 0~100% / 0~254 Step
Adjust	: Step dial - Dim / DMX Ch. / CCT / DMX On-Off Switch
Flicker	: Flicker Free(Non PWM)
Angle Adjustment	: Bracket / Ban Door
Metrial	: Aluminum, Poly Carbonate
Cooling	: Without cooling fan / Noise free
Size(W X H X D) mm / in	: 2.8kg(*3.6kg)
Weight(kg / lb)	: W330 X H330 X D33(*D70)
Ban Door(kg / lb)	: 0.8kg

mini Explorer

Mini Explorer's Housing is made of High-quality
6061 Anodized Aluminum&PC(PolyCarbonate) Material,
It provides improved durability and perfect performance.
It's suitable for long-time Photography
by connecting with Bulk External Batteries.
Among the Small LED lights on the market,
It applies the widest Color Temperature and powerful output.
It is specially designed and produced for the high-quality video,
such as broadcasting contents.
It has a waterproof rating equivalent to IP67 and
high Color Rendering Index (CRI) over than 95 (Avg, 97).

Completed with military parts

Over the years we have accumulated experience lighting technology in the industry.
Plus, as mini explorer consists of Texas Instruments parts used in the US defense industry, it maintains excellent durability and superior performance even under extreme harsh conditions. ◆ TEXAS INSTRUMENTS

Bi-Color

mini explorer can produce bi-color light from 2700K (Tungsten light) to 6500K (Day light) which is the broadest among small size LED lights in the market. And its CRI is well above 95(average.97)

Focus on the Production of broadcasting videos

Specifically Designed best for broadcasting Vedio, Mini Explorer supports various functions for Filming .
There are defined 5-step controls of the Color Temperature and Brightness Dimming .
Or when customer want Precise Control, it can be adjusted by 1% or 10%.
Quick Start Function is enable to save the data setting data(Color Temp. & Dimming), you can load your most used setting easily during the busy filming.

Waterproof & Dustproof

MINI Explorer has Waterproof and Dustproof function around IP67 or higher, that's because It's precisely designed for using in any extreme conditions. And also we offer High-grade Sealing Material and Small parts with Heat Resistance & Chemical Resistance.
We proceed precision computer processing to maximize Coherence between parts and enhance the waterproof capability.
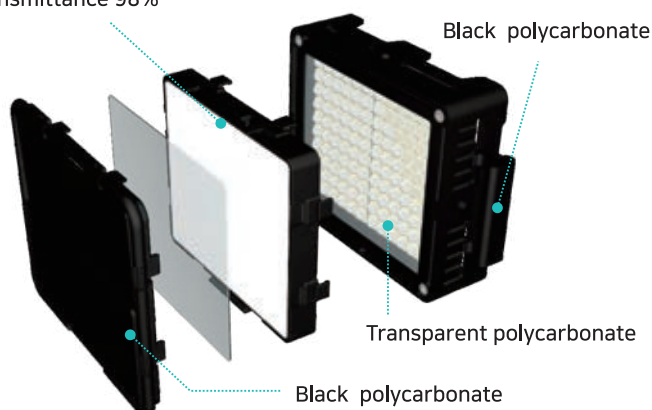
No-fan with High Technology

Among the Small LED lights on the market, there are some products have Boost Function to increase the power by using Cooling Fan.
These Cooling-fan raised Operating Noise which can be fatal for Video Filming.
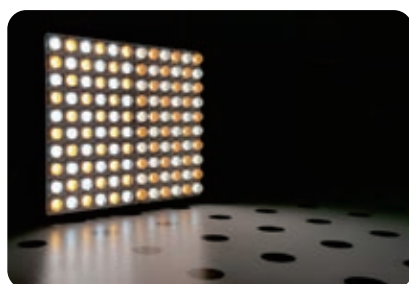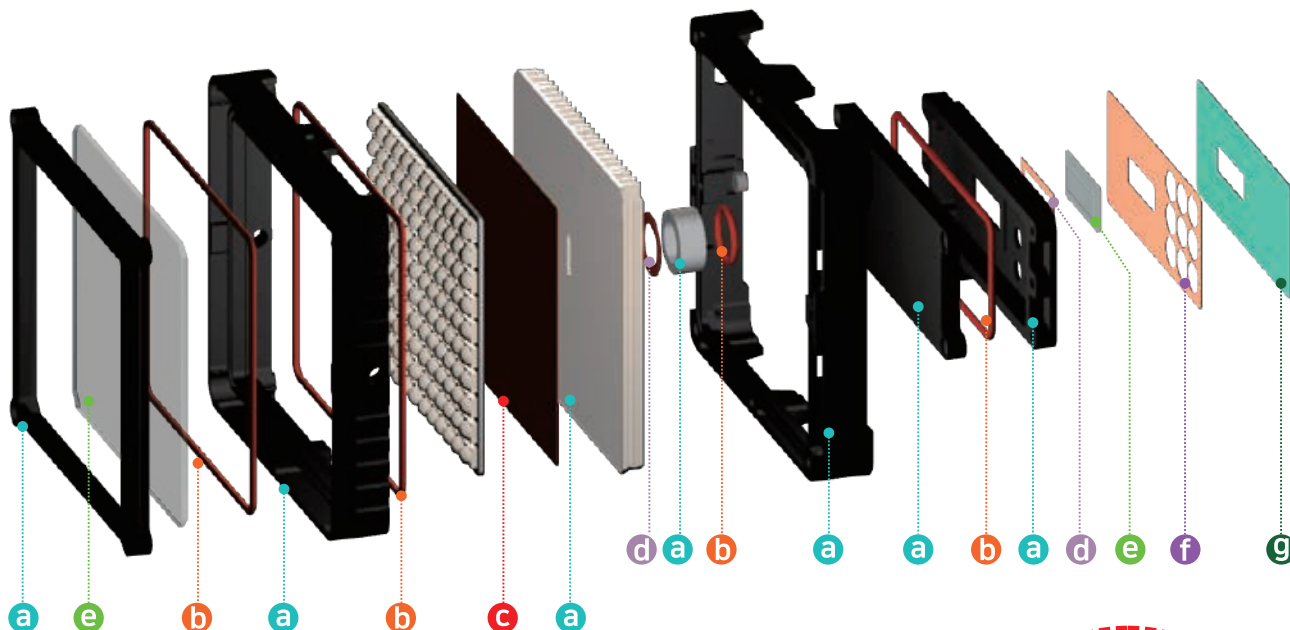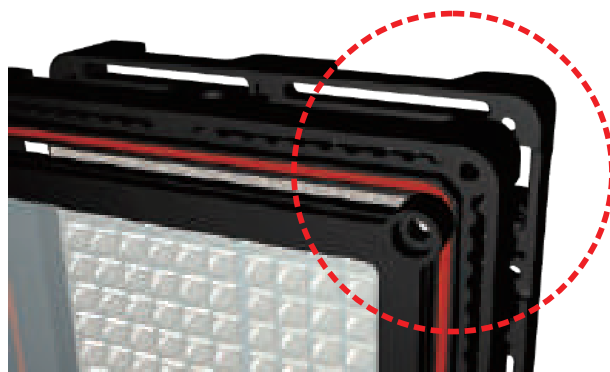But MINI Explorer has special Heatsink Structure for offer Powerful Output, 20W, without a Cooling Fan.
It can be especially useful for noise-free video filming, such as Interviews in small spaces or some Cinematography.

Diffuser
Transmittance 82%
Transmittance 90%
Transmittance 98%

Black polycarbonate

Transparent polycarbonate

Black polycarbonate

No-fan with High Technology

MINI Explorer has special Heatsink Structure for offer Powerful Output, 20W, without a Cooling Fan.
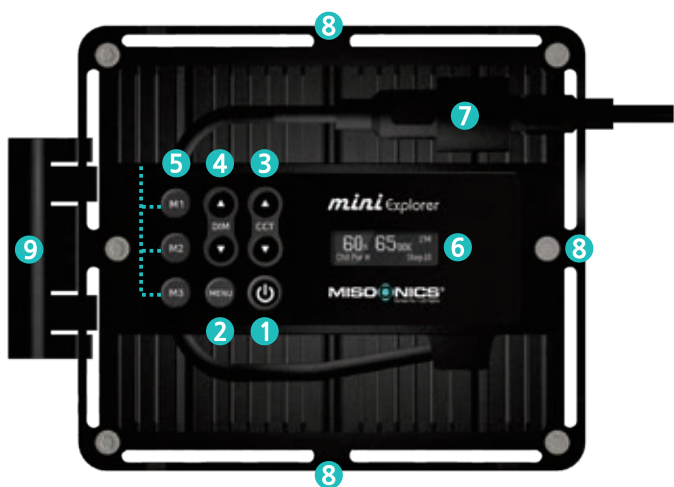
6061 Anodized Aluminum Housing

mini Explorer has 6061 Anodized Aluminum Housing, It's totally light, durable and heatless during the Performance.
High-quality Anodizing looks great appearance and also protect from external shock.

a 6061 Aluminum : Includer, LED Heatsink, Waterproof ring

b Waterproof rubber ring

c Silicone pad

d Waterproof silicone

e Transparent polycarbonate

f Adhesive pad

g LEXAN™ film for finishing

Shock Absorption Bumper Structure

The bumper structure is designed for absorb, disperse and mitigate the External shocks to protect the Internal Components of the product. Even if the Housing is changed by getting damaged from external shock, It can maintain high density so that waterproof function or operation are perfectly normal.
For these specialty we design especially combination structure and We apply Patent Application in Korea.

1 Power On/Off
2 Menu
3 CCT
4 DIM
5 Save/ Load
6 OLED Display
7 Power input
8 1/4" Threadhole (4)
9 Hand grip

mini explorer specification

Input Power	: External Input(DC 12~30V)
Power Output	: 20W
CCT(K)	: 2700 ~ 6500K(±150K)
Illumination(lux)	: 5125@0.6m / 1845@1m / 461@2m
Delta UV	: ±0.004
CRI	: CRI > 95 (TYP 97)
Light Angle	: W-90º / H-60º
Dim	: 0~100% / 0~254 Step
Adjust	: Digital Button(Dim, CCT, Menu, Memory, etc...)
Flicker	: Flicker Free(Non PWM)
Angle Adjustment	: Hinge / Diffuser / Ban Door
Metrial	: Aluminum 6061(Anodised), Poly Carbonate
Ingress Protection	: IP67
Cooling	: Without cooling fan / Noise free
Size(W X H X D) mm / in	: W115 X H101 X D33(*D53)
Weight(kg / lb)	: 310 g(*380g)
Ban Door / Diffuser	: Replaceable / Replaceable 82%, 90%, 98%

mini 10

Ultralight - 223g
Ultra Slim - 14mm
Long life battery - 3300mAh Li-ion battery
User-Replaceable battery
External Power - DC 7~24V(mini 10-A, D)

Completed with military parts

Over the years we have accumulated experience lighting technology in the industry.
Plus, as mini10 consists of Texas Instruments parts used in the US defense industry, it maintains excellent durability and superior performance even under extreme harsh conditions.

Aircraft (F16) bulletproof canopy: Polycarbonate

The body-wrapping type of a barn door and diffuser are made of Polycarbonate which is same material as the F16 fighter's canopy

It has excellent cold, heat, abrasion resistance and superior elasticity that will withstand any environment so it will last semi-permanently.
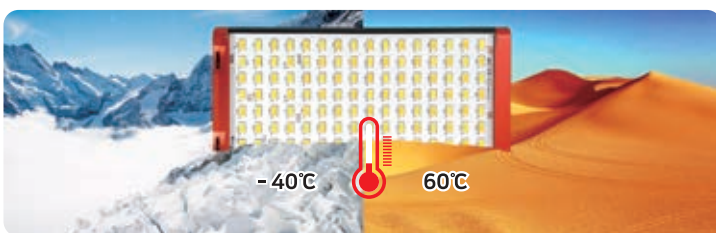
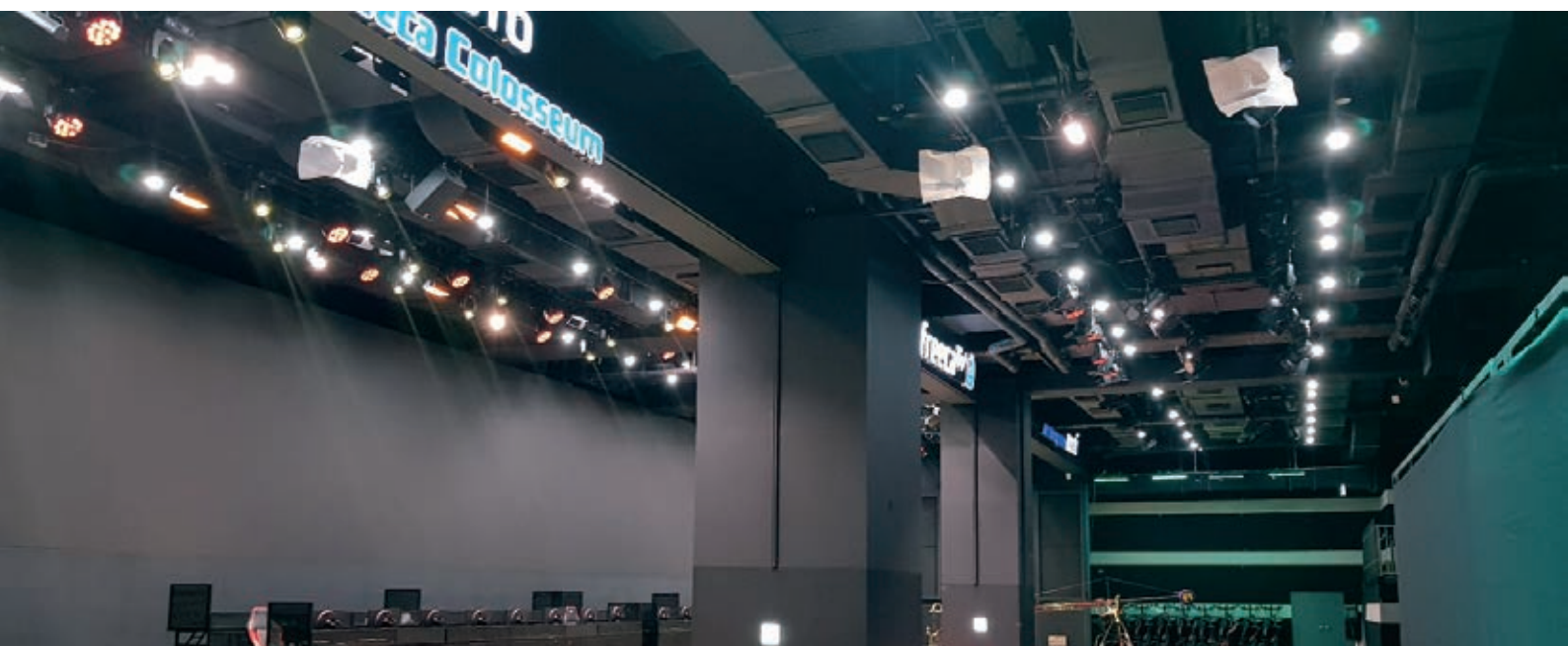## From Antarctica to the dessert

mini10 is not afraid even in Antarctica where it becomes minus 40 degrees Celsius, even in desert where it goes around 60 degrees.

mini10 is manufactured with military parts that has been tested with confidence as it is designed to adapt to any environment

Storage temperature: - 60℃~150℃
Operating temperature: - 40℃~125℃

ITEM	mini 10	mini 10-A	mini 10-D
Battery	DC 4.35V, 3300mA, Li-ion battery (Model-SAMSUNG EB-BJ710)		-
Power input	Micro USB 5V	DC 7 ~ 24V External & Micro USB 5V	DC 7 ~ 24V External
Max. Power	10W (80 minutes at full)		10W / 15W(Optional)
Color temperature(K)	2700K ~ 7200K (±150K)		
Illumination(lx/1m)	1008 lx (60cm) / 276lx(1m) / 72 lx(2m)		
Delta UV	±0.004		
CRI	CRI>95(Average 97)		
Light angle	110º		
Dimming range	0 ~ 100%(It starts from 0%)		
Dimming control	Manual dial		
Flicker	Flicker free		
Angle adjustment	Hinge / Diffuser / Ban Door		
Housing material	Aluminum 6061(Anodizing)		
Cooling	Without cooling fan / Noise free		
Weight	223g / 0.49lb		169g / 0.37lb
Size(W X H X D)	164 X 80 X 14mm / 6.45 X 3.15 X 0.55in		
Ban door / Diffuser	Polycarbonate (Incurred ban door)		

FLOATING
POINT

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