

LED

NEON FLEX

NDR2018





Features

- Color options: Single color, WN, RGB, RGBW and Pixel.
- Single color support PWM, 0~10V, DALI, DMX dimming.
- Adopt high quality constant current components with stable and reliable performance.
- Top bending with good flexibility.
- Silicone integrated extrusion shaping process with good weather resistance.
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.



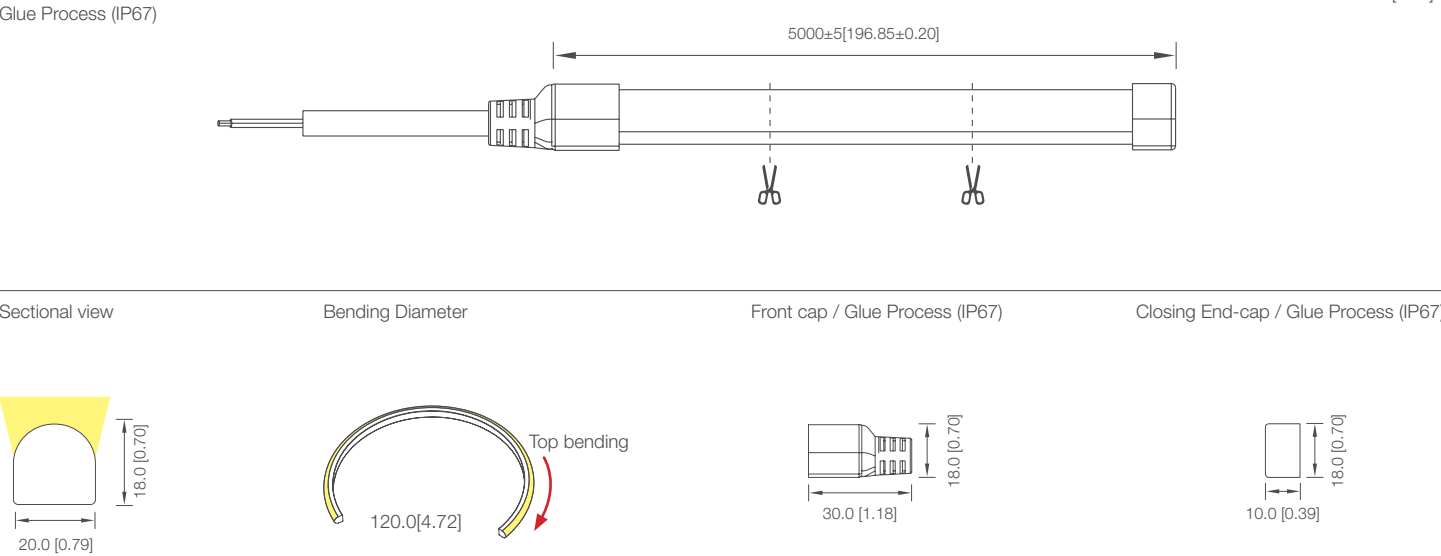
Optical & Electrical Parameters

Model No.	Voltage	Beam Angle	Ra	Color	Lm/m	Lm/W	W/m
NDR2018-Single color	24V DC	155°	>80	2200K	1084	64.7	15.3
				2700K	1374	79.7	
				4000K	1469	91.7	
				5000K	1459	87.1	
				6500K	1409	86.3	
			/	Red	290	19.3	15.3
				Green	925	61.7	
				Blue	224	14.9	
				Yellow	332	22.1	
				Orange	129	8.6	
NDR2018-WN	24V DC	148°	>80	6300K	668	92.8	7.2
				3000K	640	88.8	7.2
				W+N	1313	91.1	14.4
NDR2018-RGB	24V DC	155°	/	Red	141	31.0	5.1
				Green	313	61.2	5.1
				Blue	65	12.0	5.1
				RGB	500	33.5	15.3
NDR2018-RGBW	24V DC	148°	>80	6500K	439	81.4	4.3
				Red	106	24.8	4.3
				Green	289	60.2	4.3
			/	Blue	64	13.3	4.3
				RGBW	876	47.3	17.2
NDR2018-Single color (SPI:TM1914A)	24V DC	150°	>80	4000K	950	61	15.5
NDR2018-RGB (SPI:TM1914A)	24V DC	155°	/	Red	112	14.5	5.1
				Green	249	30.6	5.1
				Blue	55	6.8	5.1
				RGB	382	23.3	15.5
NDR2018-RGBW (SPI:UCS2904B)	24V DC	154°	>90	6500K	626	51.3	12.0
				Red	116	14.6	8.0
			/	Green	410	35.6	11.0
				Blue	105	8.5	12.0
				RGBW	607	24.0	19.2

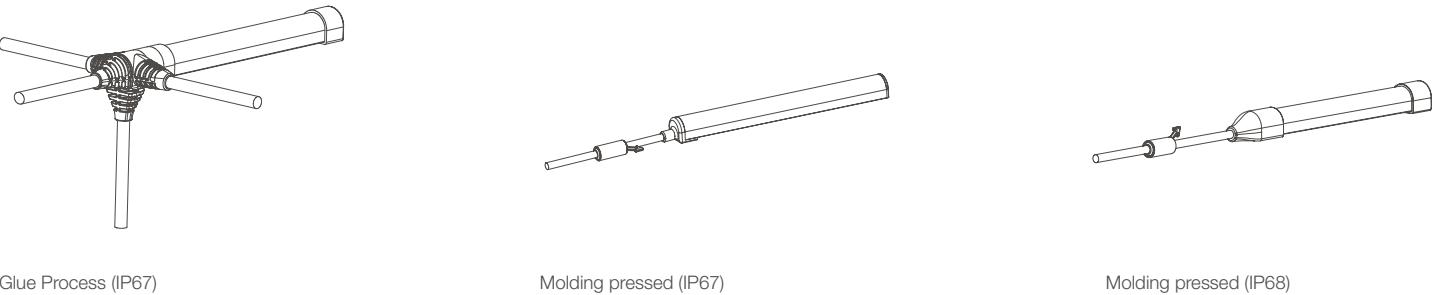
Other Parameters

Model No.	LED QTY	Standard Run	Pix/m	Min. Cuttable Length	Working Temperature	Storage Temperature
NDR2018-Single color	96pcs/m	5.0m	/	62.5mm	-20~+60℃	-20~+70℃
NDR2018-WN	240pcs/m	10.0m	/	50.0mm		
NDR2018-RGB	96pcs/m	10.0m	/	62.5mm		
NDR2018-RGBW	72pcs/m	5.0m	/	83.33mm		
NDR2018-Single color (SPI:TM1914A)	72pcs/m	5.0m	12	83.3mm		
NDR2018-RGB (SPI:TM1914A)	72pcs/m	5.0m	12	83.3mm		
NDR2018-RGBW (SPI:UCS2904B)	60pcs/m	5.0m	10	100.0 mm		

Profile Drawings



End cap wire outlet diagram



Note: the strip length supports customization within 5m

Luminous Intensity Distribution Diagram

Average Illumination



Note: the above data is based on 2700K. For other data, please consult sales rep

Recommended power supply upon working length

NDR2018-Single color

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.64A	24V DC	15.36W	25W	Single Feed
5m	2.88A	24V DC	69.12W	100W	Single Feed

NDR2018-WN

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.6A	24V DC	14.4W	24W	Single Feed
10m	6.0A	24V DC	144W	200W	Single Feed

NDR2018-RGB

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.64A	24V DC	15.36W	20W	Single Feed
5m	2.88A	24V DC	69.12W	100W	Single Feed
10m	6.4A	24V DC	153.6W	200W	Single Feed

NDR2018-RGB-R

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.19A	24V DC	4.56W	7.2W	Single Feed
30m	5.13A	24V DC	123.12W	160W	Single Feed

NDR2018-RGB-G

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.21A	24V DC	5.04W	7.2W	Single Feed
30m	5.67A	24V DC	136.08W	180W	Single Feed

NDR2018-RGB-B

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.23A	24V DC	5.52W	7.2W	Single Feed
30m	6.21A	24V DC	149.04W	200W	Single Feed

NDR2018-RGBW

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.72A	24V DC	17.28W	24W	Single Feed
5m	3.24A	24V DC	77.76W	100W	Single Feed

NDR2018-RGBW-R

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.18A	24V DC	4.32W	7.2W	Single Feed
20m	3.24A	24V DC	77.76W	100W	Single Feed

NDR2018-RGBW-G

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.20A	24V DC	4.80W	7.2W	Single Feed
20m	3.60A	24V DC	86.40W	120W	Single Feed

NDR2018-RGBW-B

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.20A	24V DC	4.80W	7.2W	Single Feed
20m	3.60A	24V DC	86.40W	120W	Single Feed

NDR2018-RGBW-W

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.22A	24V DC	5.28W	7.2W	Single Feed
20m	3.96A	24V DC	95.04W	120W	Single Feed

NDR2018-Single color (SPI:TM1914A)

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.65A	24V DC	15.55W	25W	Single Feed
5m	2.92A	24V DC	70.2W	100W	Single Feed

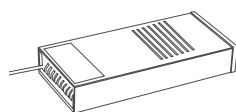
NDR2018-RGB (SPI:TM1914A)

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.65A	24V DC	15.55W	25W	Single Feed
5m	2.92A	24V DC	70.2W	100W	Single Feed

NDR2018-RGBW (SPI:UCS2904B)

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	1.05A	24V DC	25.2W	48W	Single Feed
5m	4.98A	24V DC	119.7W	180W	Single Feed

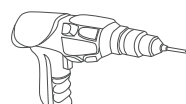
Products and Tools



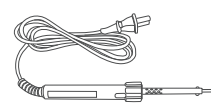
LED power supply



Cutter



Electric drill



Electric iron

Product accessories

**ASY-NDR2018-N00NNH-EC**

Item: Front cap
 Dimensions L*W*H: 50*23.2*21.2mm
 Quantity (10m): 2-4pcs
 Free/Optional: Free

**ASY-NDR2018-N00NNX-EC**

Item: Closing-end cap
 Dimensions L*W*H: 22.5*23.2*21.2mm
 Quantity (10m): 2-4pcs
 Free/Optional: Free

**ASY-NDR2018-N00NNL-EC**

Item: Front cap (Left outlet)
 Dimensions L*W*H: 42.0*46.0*21.0mm
 Quantity (10m): --
 Free/Optional: Optional

**ASY-NDR2018-N00NNR-EC**

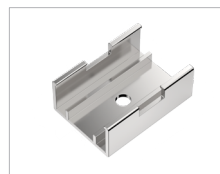
Item: Front cap (Right outlet)
 Dimensions L*W*H: 42.0*46.0*21.0mm
 Quantity (10m): --
 Free/Optional: Optional

**ASY-NDR2018-N00NNB-EC**

Item: Front cap (Bottom outlet)
 Dimensions L*W*H: 31.50*22.89*44.50mm
 Quantity (10m): --
 Free/Optional: Optional

**ASY-NDR2018-P1NN0020-MT**

Item: Plastic clip
 Dimensions L*W*H: 20*25*10mm
 Quantity (10m): --
 Free/Optional: Optional

**ASY-NDR2018-A4NN0035-MT**

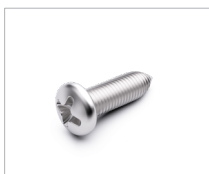
Item: Aluminum clip (with metal spring)
 Dimensions L*W*H: 25*24.1*10.8mm
 Quantity (10m): --
 Free/Optional: Optional

**ASY-NDR2018-A2NN1000-MT**

Item: Aluminum Channel (with metal spring)
 Dimensions L*W*H: 1000*24.47*10mm
 Quantity (10m): --
 Free/Optional: Optional

**ASY-NDR2018-P3NN1000-MT**

Item: 1m Plastic Channel
 Dimensions L*W*H: --
 Quantity (10m): --
 Free/Optional: Optional

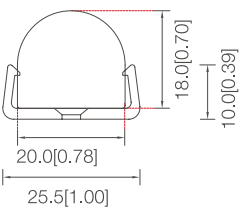
**PA3**

Item: Screws
 Dimensions L*W*H: PA3*10
 Quantity (10m): --
 Free/Optional: Optional

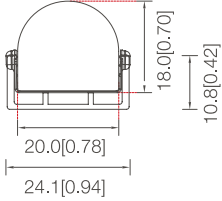


WR-7516
Item: Silicone Glue
Dimensions: 45g/pc
Quantity (10m): --
Free/Optional: Optional

Profile Drawings (neon + installation accessories)



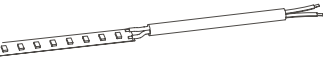
Plastic clip/channel
ASY-NDR2018-P1(P3)NNXXX-MT



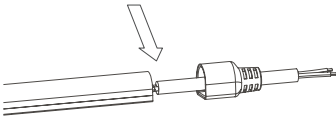
Aluminum channel (with metal spring)
ASY-NDR2018-A2(A4)NNXXX-MT

Installation

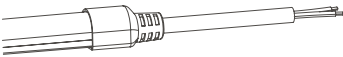
Front cap installation



Closing end-cap installation

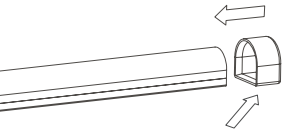


Filling the cap with glue, then install to the strip light.

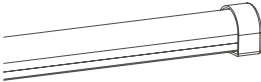


Wipe off the excess glue and wait to dry.

Closing end-cap installation

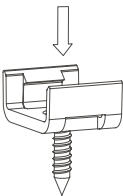


Filling the cap with glue, then install to the strip light.

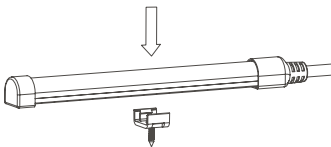


Wipe off the excess glue and wait to dry.

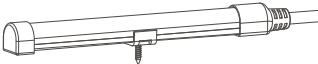
Plastic clip installation



Fix the clip with screw

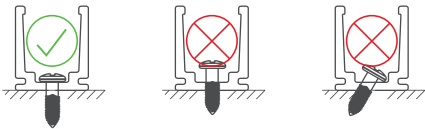


Put the strip into the clip



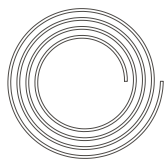
Finished

- Notes:
- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
 - Each connection must use 10g silica gel for waterproof and insulating treatment;
 - The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
 - Please choose suitable operation steps according to the actual needs;
 - During mounting, please pay attention to the min bending diameter, and best to use original factory accessories;
 - More information, please feel free to consult us;

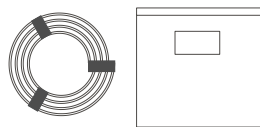


Packaging Information

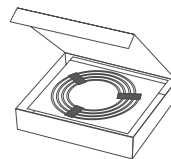
Packaging method - 5m standard run



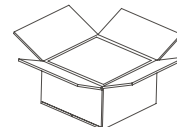
Roll up the product



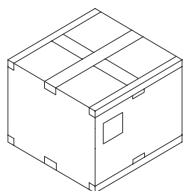
Wrap it tightly with PE film and then put into a aluminum foil bag;



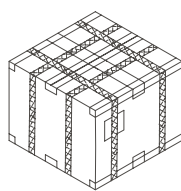
Put the bag into a box;



Put the boxes into a carton

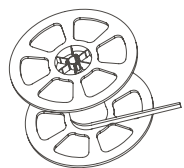


Seal and label the carton;

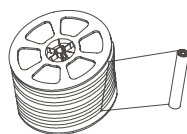


Use packing belt to pack. Add edge protectors if necessary

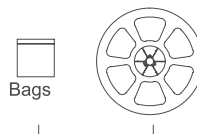
Packaging method - 10m standard run



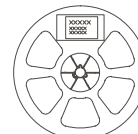
Roll the product to a reel



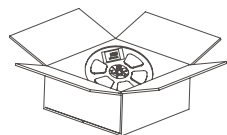
Wrap it with PE film



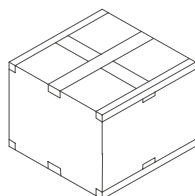
Put the reel and accessories bag on the work table



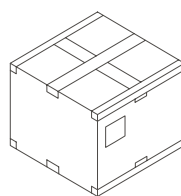
Label the reel;



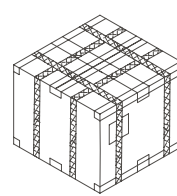
Put the prepared products into a carton box;



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packaging information

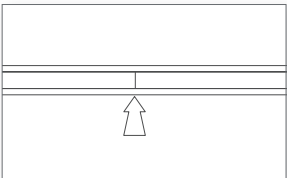
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDR2018-Single color	5000*20*18	480*445*370	5	12	17.65(1± 10%)
NDR2018-WN	10000*20*18	390*390*325	10	3	18.60(1± 10%)
NDR2018-RGB	10000*20*18	390*390*325	10	3	18.60(1± 10%)
NDR2018-RGBW	5000*20*18	480*445*370	5	12	17.55(1±10%)
NDR2018-Single color (SPI:TM1914A)	5000*20*18	480*445*370	5	12	17.50(1±10%)
NDR2018-RGB (SPI:TM1914A)	5000*20*18	480*445*370	5	12	17.50(1±10%)
NDR2018-RGBW (SPI:UCS2904B)	5000*20*18	480*445*370	5	12	17.75(1±10%)

- One piece((5/10m) per reel, and the reel is packed in an outer box.
- For other customized length packaging, please ask our sales rep.
- The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

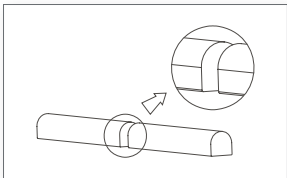
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60°C, continuous power on	
		Room temperature bending test	Bending diameter 60mm, continuous power on under room temperature	
		Room temperature aging test	TH=25°C, continuous power on	
Mechanical strength testing	Blueview standard	Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	Pass
		Twisting test	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	

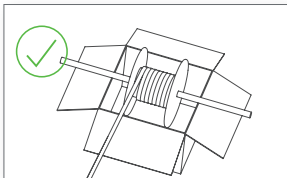
Warning Mark



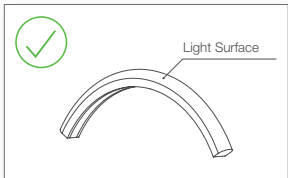
Cuttable identifier



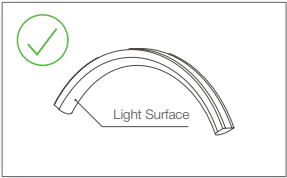
Neat and smooth cut



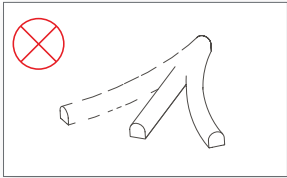
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



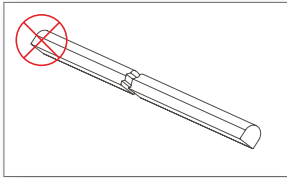
use in convex direction



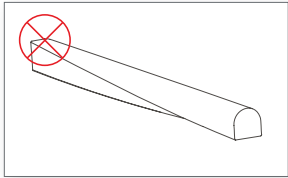
Use in concave direction



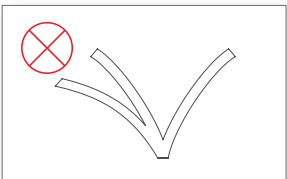
Side bending



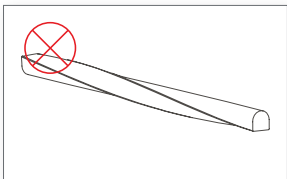
Do not make irregular cuts.



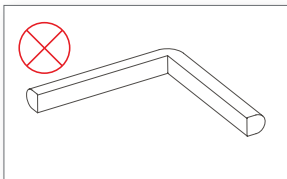
Do not use in distortions



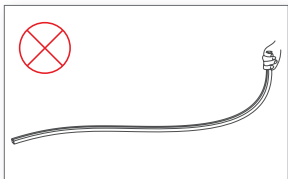
Do not bend many times, for it can endanger electronic lines.



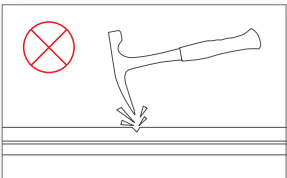
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



Avoid touching sharp objects

Note:

1. There are cutting marks on the PCB;
2. Please pay attention to above warnings during transportation and using;

Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation,especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation,waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm2 cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters.Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have waterproof and anti-corrosive treatment.

Statements and Recycling

Statements

- Repair should be operated by a qualified technician or supplier, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

Version	Content	Date
A2.7	Update: Basic Parameters of Single Color	2024-3-14