BLUEVIEW
Better Light Better View
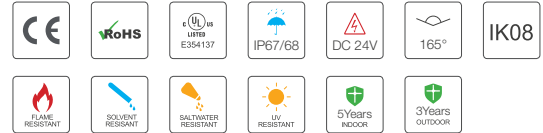
CE RoHS UL LISTED E354137

LED
NEON FLEX

NDR1414

Features

- Color options: Single color, WN and RGB.
- Adopt constant current components with stable and reliable performance Top bending, easy to shape
- Silicone integrated extrusion, good weather resistance
- Warranty: 5 years indoor, 3 years outdoor
- Customization: multiple spec options, can be customized upon requirements

CE | RoHS | cULus LISTED E354137 | IP67/68 | DC 24V | 165° | IK08

FLAME RESISTANT | SOLVENT RESISTANT | SALTWATER RESISTANT | UV RESISTANT | 5Years INDOOR | 3Years OUTDOOR

Optical & Electrical Parameters

Model No.	Voltage	Beam Angle	CRI	Color	Lm/m	Lm/W	Rated Power (W/m)
NDR1414-Single color	24V DC	165°	>90	2300K	473	41.0	11.5
			>80	2600K	686	58.9	
				2900K	727	62.3	
				4000K	733	62.8	
				4700K	769	66.0	
				5700K	743	63.9	
			/	Red	272	23.4	11.5
				Green	773	66.8	
				Blue	158	13.6	
				Yellow	195	16.9	
				Orange	334	28.8	
NDR1414-WN	24V DC	165°	>80	2600K	511	70.9	7.2
				6200K	577	80.3	7.2
				W+N	1095	76.0	14.4
NDR1414-RGB	24V DC	165°	/	Red	104	22.1	4.8
				Green	324	64.9	4.8
				Blue	67	14.0	4.8
				RGB	492	34.5	14.4

Other Parameters

Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDR1414-Single color	144	15000mm	41.66mm	-20~+60℃	-20~+70℃
NDR1414-WN	240	10000mm	50.0mm		
NDR1414-RGB	120	5000mm	50.0mm		

Profile Drawings

Glue Process (IP67) Molding pressed (IP68) Unit:mm[inch]

5000 [196.85]

5020.5 [197.66]
5000 [196.85]
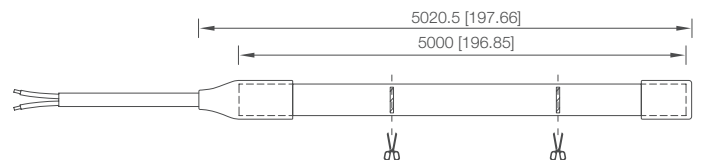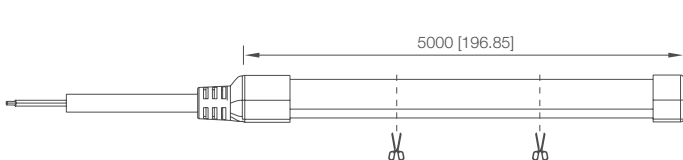
Bend direction

Bending Diameter

Ø 60.0[2.36]

Sectional view

14.0 [0.55]

14.0 [0.55]

Front cap

Glue Process (IP67)

31.0 [1.22]

15.4 [0.60]

Molding pressed (IP68)

42.0 [1.65]
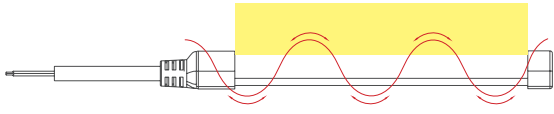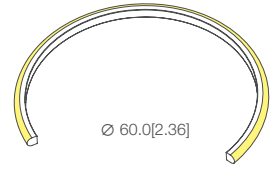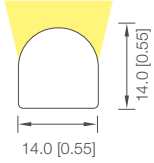
17.2 [0.67]
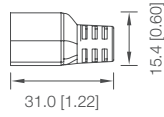
Closing End-cap

Glue Process (IP67)
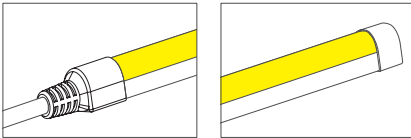
16.8[0.66]

15.8 [0.62]

Molding pressed (IP68)

22.5 [0.88]

17.2 [0.67]
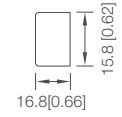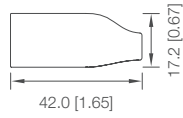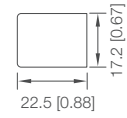
Remarks: "L" is the standard size of the light strip, can be customized according to the multiple of the minimum cutting unit length.
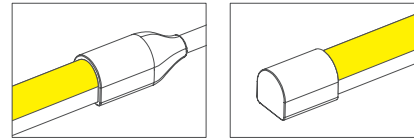

IP Process Technology

Glue Process (IP67)

Color
Single color / WN / RGB

**Outlet Direction**
Straight

Molding Pressed (IP68)

Color
Single color / WN / RGB

Outlet Direction
Straight / Left / Right

- Glue process the end cap after cutting, warranty will be provided upon IP65 rated.
- No warranty will be provided if the injection moulded(IP68) end cap destroyed or reprocessed.
- Corresponding molding equipment and mold needed for self-processing injection moulded end cap, contact the sales for more information.

Luminous Intensity Distribution Diagram

Average Illumination

Unit: cd
- C 0 /180,213.8°
- C 90/270,111.6°

AVERAGE BEAM ANGLE (50%): 162.7°
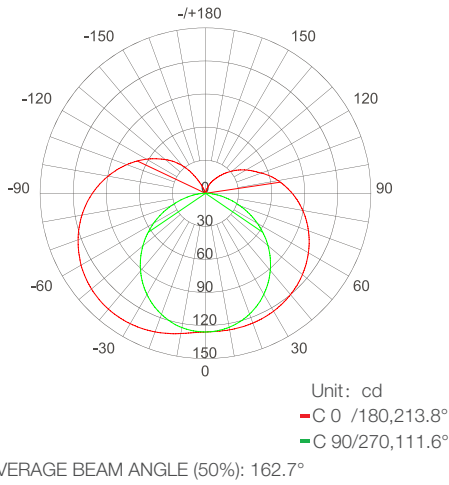
Flux Out: 312.3lm

| Height	Eavg, Emax	Beam Angle: 111.55°	Diameter
0.5m	180.9,517.0lx		147.02cm
1.0m	45.22,129.3lx		294.04cm
1.5m	20.10,57.45lx		441.05cm
2.0m	11.31,32.31lx		588.07cm
2.5m	7.236,20.68lx		735.09cm
3.0m	5.025,14.36lx		882.11cm
3.5m	3.692,10.55lx		1029.12cm
4.0m	2.826,8.078lx		1176.14cm
4.5m	2.233,6.383lx		1323.16cm
5.0m	1.809,5.170lx		1470.18cm

Note: the above two figures are tested with the sample NDR1414-W. For other data, please consult sales rep.

Product accessories

ASY-NDR1414-N00NNH-EC

Item:	Front cap
Dimensions L*W*H:	31*16*15 mm
Quantity (15m):	2-4pcs
Free/Optional	Free
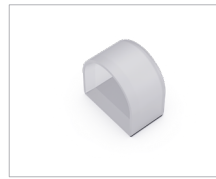
ASY-NDR1414-N00NNX-EC

Item:	Closing End-cap
Dimensions L*W*H:	10*17*16mm
Quantity (15m):	2-4pcs
Free/Optional	Free

Item:	Front cap (Molding pressed)
Dimensions L*W*H:	42*17*17mm
Quantity (15m):	--
Free/Optional	Optional

Item:	Front cap (side / Molding pressed)
Dimensions L*W*H:	42*23*17mm
Quantity (15m):	--
Free/Optional	Optional

Item:	Closing End-cap(Molding pressed)
Dimensions L*W*H:	23*17*17mm
Quantity (15m):	--
Free/Optional	Optional

ASY-NDR1414-P1NN0016-MT

Item:	Plastic Clip
Dimensions L*W*H:	--
Quantity (15m):	--
Free/Optional	Optional

ASY-NDR1414-A4NN0025-MT

Item:	Aluminum Clip
Dimensions L*W*H:	25*18*10mm
Quantity (15m):	--
Free/Optional	Optional

ASY-NDR1414-RNN0012-MT

Item:	Silicone Clip
Dimensions L*W*H:	--
Quantity (15m):	--
Free/Optional	Optional

WR-7516

Item:	Silicone Glue
Dimensions:	45g/pc
Quantity (15m):	--
Free/Optional	Optional
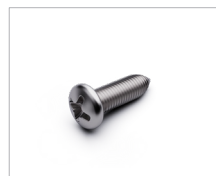
Screws

Item:	PA3
Dimensions L*W*H:	PA3*10mm
Quantity (15m):	--
Free/Optional	Optional

Recommended power supply upon working length

NDR1414-Single color

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.48A	24V DC	11.5W	24W	Single Feed
15m	7.2A	24V DC	172.8W	240W	Single Feed

NDR1414-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	144.0W	200W	Single Feed

NDR1414-RGB

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.6A	24V DC	14.4W	24W	Single Feed
5m	2.7A	24V DC	64.8W	100W	Single Feed

NDR1414-RGB-R/G/B

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.2A	24V DC	4.8W	7.2W	Single Feed
15m	2.7A	24V DC	64.8W	100W	Single Feed

Products and Tools
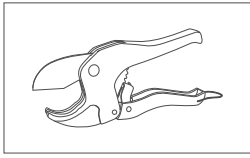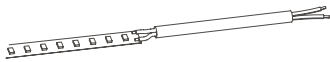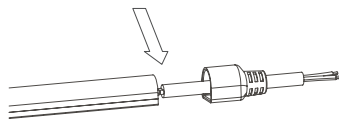

Cutter
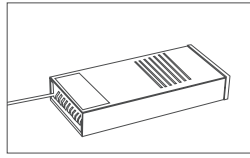
LED power supply
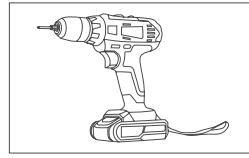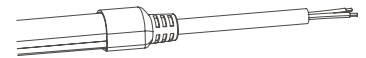
Electric drill
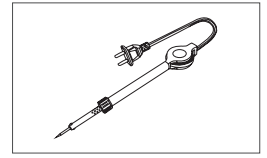
Electric iron

Installation

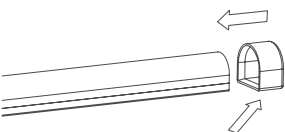**Front cap installation**

Weld the wire to the PCB board.

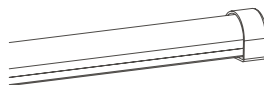Apply waterproof glue to the front cap, then push the cap into the strip.

Wipe off the excess glue and wait for the glue to solidify.
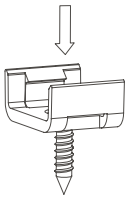
Closing-end cap installation

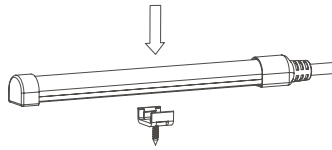Apply waterproof glue to the end cap, then push the cap into the strip.

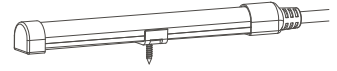Wipe off the excess glue and wait for the glue to solidify.

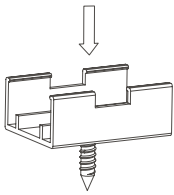**PC clip installation**

Fix the clip with screw

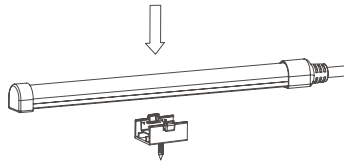Put the strip into the clip

Finished

Aluminum channel installation


Fix the channel with screws

Put the strip into the channel

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;
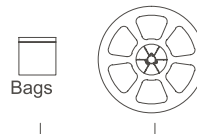- More information, please feel free to consult us;
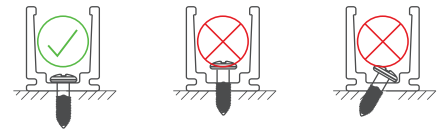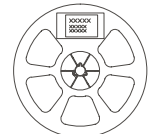

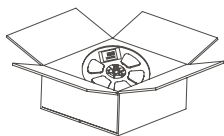Packaging method - 10/15m standard run
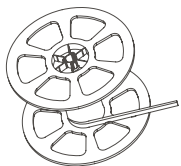
Roll the product to a reel
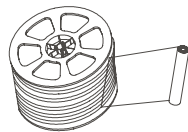
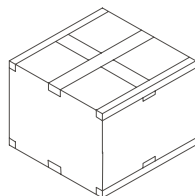Wrap it with PE film

Bags

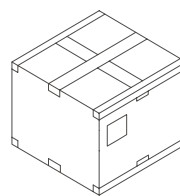Put the reel and accessories bag on the work table

Label the reel;

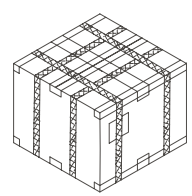

Put the prepared products into a carton box;

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 (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDR1414-Single color	15000*14*14	430*400*390	15	2	16.53 (1± 10%)
NDR1414-WN	10000*14*14	390*390*325	10	3	14.75 (1± 10%)
NDR1414-RGB	5000*14*14	390*390*325	5	15	19.25(1± 10%)

- 15/10/5m per reel, and put reels into a carton 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
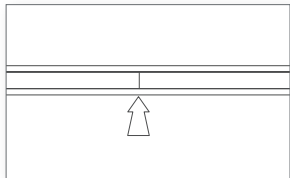
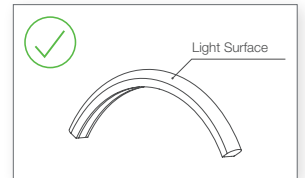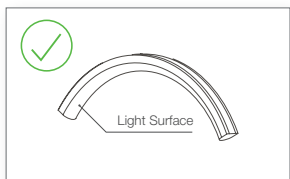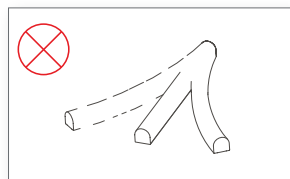Cuttable identifier
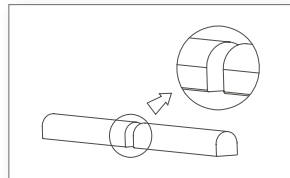
Neat and smooth cut
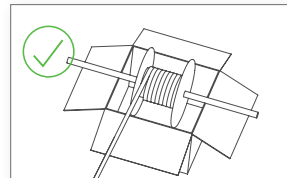
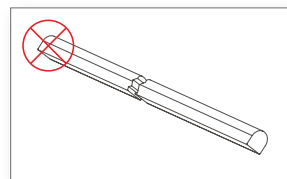Insert a stick on the reel and place it on the packing box,and rotate the reel to get the product.
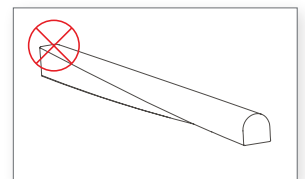

use in convex direction

Use in concave direction

Side bending

Do not make irregular cuts.

Do not use in distortions
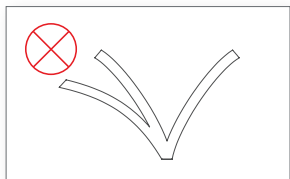
Do not bend many times,for it can endanger electronic lines.
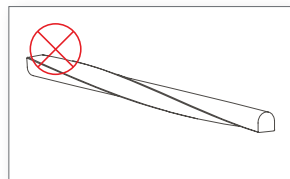
Do not use on wringing(twist)
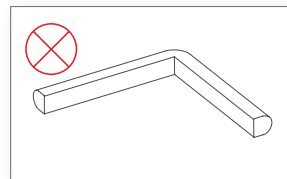
Do not bend at right angles
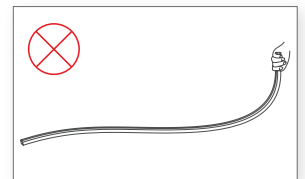
Do not throw or pull when taking products

Note:

The cutting mark is on the PCB, and the cutting position can be identified in the product cutting line window or the laser mark on the product surface;

After unpacking, use warning signs during handling and installation, and rigorous operation can bring a pleasant experience;

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

Packaging information

- 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.

BLUEVIEW ELEC-OPTIC TECH CO.,LTD

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☐ Fax: +86-28-8148 1258 ☐ Email: sales@blueviewled.com