



CP-4 Manual

INDEX

FORWORD	2
PRODUCT CONTENT	5
TECHNICAL DATA	6
CP-4 INSTALLATION	8
GENERAL INFORMATION	15

-TECHNOLOGY GIVES YOU A SAFER AND MORE COMFORTABLE RIDE-

With the help of e-bikes, cyclists can ride faster and further. The average speed of e-bikes is much faster than ordinary bicycles meaning increased lighting is required to maintain safety. Sufficient lighting allows cyclists to see further and more clearly. This reduces reaction times when facing rapidly changing road conditions and unexpected road events. To maintain safety, e-bike headlights play a more important role in comparison to ordinary bicycles.

Among the leaders in high-end bicycle products, SP strives to use advanced technology to provide quality products that are safer, more comfortable and more convenient for cyclists.

-SEVEN BRIGHT MODES FOR MAXIMUM SECURITY-

The low beam mode of CP-4 meets and exceeds the exacting requirements of the well know German StVZO regulations for bicycle headlamps. The CP-4 projects high brightness and a razor sharp cut-off line. Brightness below the cut-off line is intense while very little light strays above the horizontal cut-off line. The CP-4 illuminates the road ahead while avoiding dangerous glare vis-à-vis oncoming cars or pedestrians. The CP-4 also provides a remarkable, wide-angle beam function allowing riders to increase breadth of vision and heightened awareness of environment on demand.

With a CP-4, you can choose from a variety of lighting modes to suit different riding conditions, thus providing for safer and more comfortable riding. We seek only to provide you with higher quality, more convenient and safer products.

-WIDER LIGHTING GIVES YOU A SAFER RIDE-

The riders may adjust the brightness of the CP-4 to meet differing riding environments, road conditions and personal preference.

In both standard and wide-wide angle modes, brightness can be adjusted to three different settings.

1. Low brightness
2. Medium brightness
3. High brightness

For Mode 1 to 6, please press the power switch to cycle through the modes of operation.

For Mode 7, please press the high beam button.



MODE	LIGHT PERFORMANCE	BRIGHTNESS	BRIGHTNESS (Add #7/ high beam)	POWER COMSUPTION	POWER COMSUPTION (Add #7/ high beam)
#1	Low beam (low)	290 lm	990 lm	2 W	8 W
#2	Low beam (medium)	390 lm	1090 lm	3 W	9 W
#3	Low beam (high)	510 lm	1210 lm	4 W	10 W
#4	Low beam (high) + Wide beam (low)	1090 lm	1790 lm	8 W	14 W
#5	Low beam (high) + Wide beam (medium)	1290 lm	1990 lm	10 W	16 W
#6	Low beam (high) + Wide beam (high)	1530 lm	2230 lm	12 W	18 W

PRODUCT CONTENT



The CP-4 box has a length, width and height of 9 x 9 x 8.5 cm.

When you receive your CP-4, you will also receive the following accessories.

Including:

- ① 1 x Front Headlight
- ② 1 x Button
- ③ 1 x USB Cable (Compatible with QC 2.0 or QC 3.0)
- ④ 2 x Bicycle Mounts
- ⑤ 2 x Screws for the Headlight Bracket
- ⑥ 1 x Nuts and Bolts
- ⑦ 2 x Ty-Rap Ties



TECHINICAL DATA

-We have information to tell you why you should choose CP-4 as your riding partner-

LOW BEAM	1530 lm*
WATTAGE LOW BEAM	2-12 W
MODE	1-6
HIGH BEAM	700 lm*
WATTAGE HIGH BEAM	6 W
DAYTIME RUNNING LIGHT	6 Power LEDs
WATTAGE	0.96 W
INPUT VOLTAGE	12 V DC
L x W x H	50 x 45 x 42 mm
WEIGHT	83g
COLOR	Black
HOUSING MATERIAL	Aluminum
APPROVALS	
WATERPROOF LEVEL	IP



BOTTOM

L x W x H	45 x 27 x 8 mm
CABLE LENGTH	220 mm
WEIGHT	14.3g
COLOR	Black
HOUSING MATERIAL	Aluminum



USB

L x W x H	50 x 17 x 9 mm
CABLE LENGTH	1020 mm
WEIGHT	26g
COLOR	Black
HOUSING MATERIAL	Plastic

INSTALLATION



The Bicycle Stem Installation of the CP-4

Here are instructions on how to install the CP-4 on your own.
Let's get started!

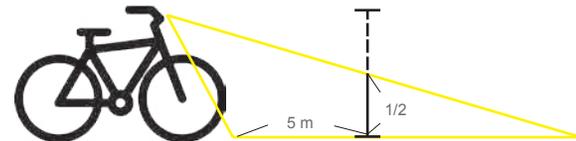


Pictures of the included components appear on the left. Your stem should appear as in picture 1.

1. Remove the bolts from the stem.
2. Install on the headlight bracket. (Picture 2)
3. Fasten all stem bolts to 6 Nm. (Picture 3)
4. Install the headlight and fasten the nuts and bolts. (Picture 4)

Please install the CP-4 and adjust the beam to project toward a wall on a level surface at a distance of 5 meters.

Then adjust/aim the cut-off line at a level that is half way between height at which the headlamp is mounted and ground level.





How to Install the CP-4 on a Fork Crown

The CP-4 may also be installed on the fork crown.

①

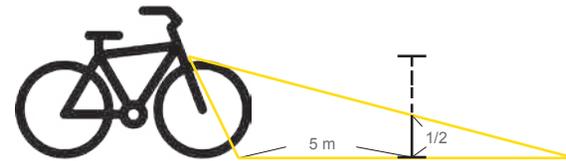


Before you install the CP-4, assess whether your fork appears like the one in Picture 1. Since not the same on all bikes accept the same fork crown bolt, the components you receive in the box does not include an extra one. However, such bolts should be readily available from any quality hardware store.

1. Mount the bracket on your fork crown.
2. Install the headlight. (Picture 2)
3. Fasten all bolts to 6 Nm.

Please aim the headlamp as per the instructions above for best results.

②





①

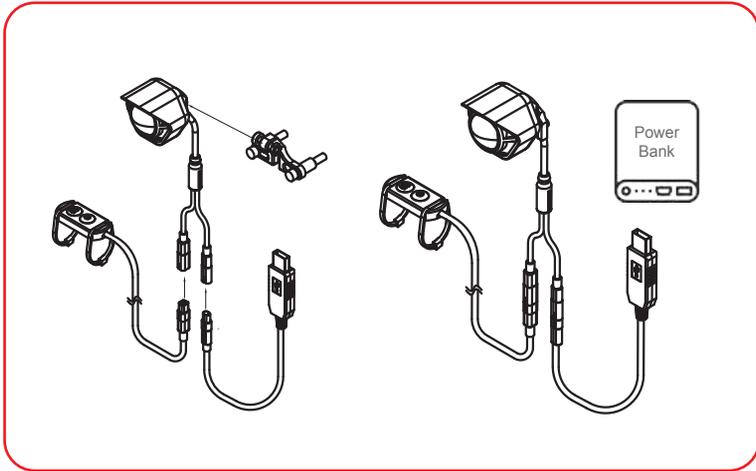


②

How to Install the Switch

You will find two Ty-Rap cable ties in the box.
(Picture 1)

1. Install the switch on the holder.
2. Use the two Ty-Rap cable ties to secure the switch. (Picture 2)
3. Cut the unnecessary length of the ties once installed.



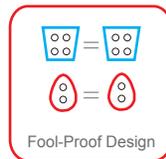
IMPORTANT NOTICE!

Choosing the right power bank?

Please confirm that the power bank you select meets the technical requirements indicated below!

IMPORTANT!

1. Please be certain to tighten all bolts to a torque of 6 Nm.
2. Please use power bank of QC 2.0 or QC 3.0 standard, or the wide beam mode will not function.
3. Please be certain to match the colors on the cables when connecting the headlight with the switch and power bank. Please also be assured of the fool-proof cable design.
4. Please do not touch the case of the headlight when it's light on because the case will be heated and become hot.





Please install the headlight in accordance with the instructions and photos provided.

A correct CP-4 installation appears in the provided pictures.

SP offers different kinds of products to join you on the road. The CP-4 is small, but powerful headlight to be with you on your entire journey! Enjoy your rides with Shutter Precision!

GENERAL INFORMATION

CARE INSTRUCTIONS

1. Never use a high-pressure hose or alcohol-containing fluids to clean the headlight or its accessories.
2. Clean the front optic with water and a soft clean cloth when necessary.
3. Do not use aggressive cleaning agents and do not use alcohol based cleaning agents!
4. Check the mounting bolts from time to time.

WARRANTY & SERVICE

2-year warranty: SP products are covered under warranty for 2-years from the date of purchase.





Shutter Precision
www.sp-dynamo.com

E-mail: shutter.company@msa.hinet.net TEL +886-4-23328566
Address: No.66, Ln.85, Side N. Rd., Wufeng Dist., Taichung City 413, Taiwan

Copy right © 2019 Shutter Precision Co., Ltd. All rights reserved.