





SEEMEE R300 SMART RADAR TAILLIGHT

A GAME-CHANGER IN CYCLING SAFETY

MAX OUTPUT	MAX RUNTIME	VISIBILITY ANGLE	WATER RESISTANT
			
300 lumens	100 hours	270°	IPX6



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MARKET APPLICATIONS

Road cycling
Urban commuting
Daily commuting

DESCRIPTION

In an era where electric vehicles silently glide by, the traditional reliance on auditory and visual cues falls short of contemporary safety demands. Tragically, 40% of fatal bike incidents stem from rear-end collisions. Enter the SEEMEE R300 radar taillight—a pivotal safety innovation in cycling.

With its state-of-the-art radar technology, the SEEMEE R300 is not just a taillight. It's a proactive safety measure. It detects approaching vehicles up to 140 meters distant, tracking speeds from 10 to 160 km/h. This proactive monitoring dramatically reduces rear-collision risks, whether from fast-moving vehicles, e-bikes, or casual riders, giving you peace of mind on the road.

When vehicles approach within 50 meters, the SEEMEE R300 instantly unleashes a 300-lumen warning light, artfully dimming and slowing its flash rate as they draw nearer. This ensures high visibility while being considerate to pedestrians and drivers alike. Visible from afar, up to 2 kilometers, it masters the balance of safety and courtesy.

The SEEMEE R300 can seamlessly integrate with leading cycling computers like Garmin, Wahoo, and Hammerhead, providing instant traffic updates. Its dual-switch control system enhances usability, letting you manually switch the radar functionality and adapt to various cycling environments and preferences, making it a versatile and adaptable safety tool.

Our pioneering PelotonSync Flash technology, tailored for team adventures, intuitively harmonizes flash patterns among nearby compatible devices. This fosters camaraderie among riders while ensuring optimal visibility without overpowering fellow cyclists, seamlessly blending safety with group dynamics.

The SEEMEE R300 is a robust unit with a powerful 3350mAh battery, offering up to 100 hours of runtime. Its eco-flash mode extends battery life without compromising safety, and a clear battery indicator allows for quick status checks. It incorporates a safety lock to prevent accidental activation, a waterproof IPX6 rating ensures all-weather reliability, and a versatile quarter-turn mount can be used with various seat post types for a secure fit, making it a reliable and sustainable safety companion.

Experience a new level of safety with the SEEMEE R300 radar taillight. It's not just about technology but also about your peace of mind. With the SEEMEE R300, you can ride confidently, knowing you're equipped with the latest safety innovations.

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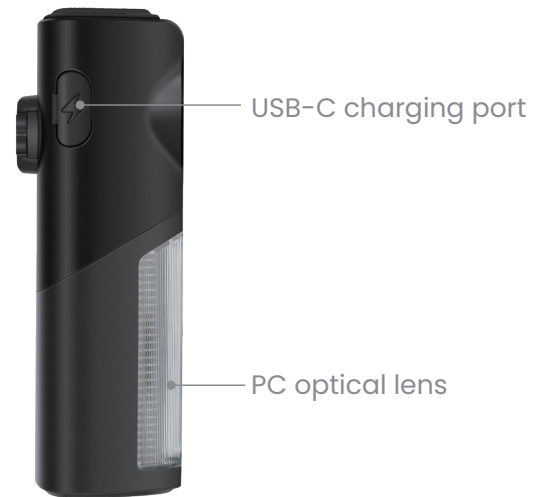
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MAGICSHINE

Power button



Radar button



USB-C charging port

PC optical lens



Radar indicator



Quick release mount

Aluminum housing

Plastic parts

FEATURES

- High-power LEDs with high-transparency optical lens for a max 300-lumen output.
- ANT+ enabled radar system identifies approaching vehicles, instantly relaying visual alerts through compatible cycling computers.
- 270° wide viewing angle with up to 2000m visibility for all-around protection.
- PelotonSync Flash coordinates flashing with compatible taillights for heightened alerts.
- Separate buttons for managing taillight and radar functions, optimizing efficiency.
- Group ride mode and vibration wake-up for intuitive, smart cycling.
- Powered by a 3350mAh battery, delivering up to 100 hours of runtime.
- Lock function prevents accidental switching on.
- Mode memory function, easy-to-read indicators and USB-C rechargeable.
- Lightweight aluminum housing with durable plastics for optimal heat dissipation.
- IPX6 waterproof rating, built to withstand harsh weather.
- A tool-free, quick-release mount for a secure and effortless installation.

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COMPATIBLE BIKE COMPUTERS

- Garmin: Edge 840, Edge 540, Edge Explore 2, Edge 1040, Edge 1030 Plus, Edge 130 Plus, Edge 830, Edge 530, Edge Explore, Edge 520 Plus, Edge 130, Edge 1030, Edge 820, Edge Explore 1000, Edge 520, Edge 25, Edge 1000, Edge 510, Edge 810
 - Magene: C606 (compatible but not with radar ANT+)
 - SIGMA SPORT: ROX 12.1 EVO (compatible only with radar ANT+, not lights ANT+)
 - Stages Cycling: Stages Dash M200, Dash M50/L50
 - Hammerhead: Karoo 2, Karoo 3
 - Wahoo Fitness: ELEMNT ROAM
 - Bontrager: Trek - RIDetime Elite (compatible only with lights ANT+, not radar ANT+), Transmitt Remote
 - Pioneer: GPS computer- SGX-CA600
- * *The entire series of Bryton computers is not supported yet.*
- * *Compatible with ANT+ wireless communication protocol, new version Magicshine App protocol, and Xingzhe App protocol.*

PAIR WITH A BIKE COMPUTER

- Turn on SEEMEE R300 and activate its radar function.
 - Turn on your bike computer, go to Menu>Sensors>Add Sensors>Radar>Search All.
 - Select SEEMEE R300 (random number), and click "Add".
 - When pairing successfully, the sensor shows that "Radar" and "Lights" are connected.
- * Place your bike computer and taillight within 3 meters. Keep 10 meters away from other ANT+ sensors when pairing.

VIEW RADAR ON YOUR BIKE COMPUTER

- Go for a ride. The radar information will be displayed on the activity data screen.
- The vehicle position moves up the column as a vehicle gets closer to your bike. The threat level changes color based on the potential level of threat. Green indicates no vehicle is detected. Orange indicates a vehicle is approaching. Red indicates a vehicle is approaching at a high rate of speed.
- If your bike computer is set to sound or vibrate, it will sound an alarm when it detects the first vehicle. After the threat is eliminated and a new approaching vehicle is detected, the computer will sound an alarm again.

CUSTOMIZE RADAR ALERT SETTINGS

- Turn on your bike computer, select Menu>Sensors>Radar (corresponding number)>Sensor Details>Alert Settings.
- Select an option.

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OPERATION INSTRUCTIONS

SWITCH

A power button manages taillight modes and brightness, while the radar button controls radar functions.

ON/OFF

Press and hold the power button for 1 second to turn the taillight on/off. When the taillight is on, the radar function is activated by default.

RADAR FUNCTION ON/OFF

- Press and hold the radar button for 1 second to turn the radar function on/off.
- The radar function can be turned on/off separately. When only the radar is turned on, the taillight will enter only radar mode.

RADAR INDICATOR

- When the radar is working, the indicator will circle clockwise with red light.
- When the radar is abnormal, the indicator will keep flashing white.

CHANGE MODE

When the taillight is on, click the power button to cycle through Low→High→Night Flash→Day Flash→Eco Flash→Low...

** With a connected bike computer, enter "Light Mode" and select the corresponding brightness level. Or customize the taillight lighting mode on a compatible computer, e.g., automatically adjust the lighting mode and brightness according to ambient light.*

MEMORY FUNCTION

When the taillight is turned on again, it will automatically turn to the last selected lighting mode.

VIBRATION FUNCTION ON

- When the taillight is off, press and hold the power button and radar button for 3 seconds until the taillight lights up constantly at maximum output.
- When the vibration function is on, the taillight will enter sleep mode after 5 minutes of inactivity and automatically activate when a vibration is detected.
- When the taillight detects vibrations, it will automatically turn on and light up with the last selected lighting mode.

VIBRATION FUNCTION OFF

When the taillight is off, press and hold the power button and radar button for 3 seconds until the taillight keeps flashing quickly at maximum output.

LOCKOUT/UNLOCK

Press and hold the power button for 3 seconds to enter lockout mode and all other functions will be temporarily deactivated. Click the power button or radar button, and the indicator will flash red. In lockout mode, press and hold the power button for 3 seconds to unlock the taillight.

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GROUP RIDE MODE

When two or more SEEMEE R300 simultaneously light up in Low mode and stay within 10 meters, the taillight automatically switches to Group Ride mode.

** When the taillight enters Group Ride mode, the radar flash is off, and the taillight only provides computer radar data.*

PELOTONSYNC FLASH MODE

When two or more SEEMEE R300 taillights come close and flash in the same pattern, they automatically switch to PelotonSync Flash mode. Click the power button to exit PelotonSync Flash mode and switch to other modes.

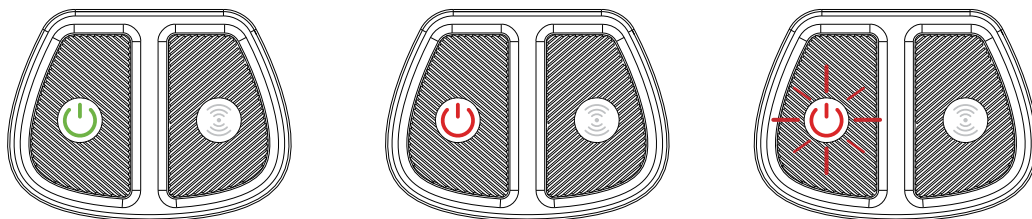
LOW POWER MODE

When the remaining battery power is below 10%, the taillight will change to Eco Flash mode and cannot be adjusted. The radar flash mode and vibration function will be disabled during this period.

BATTERY INDICATOR

- When the taillight is off, click the power button to display the remaining battery level for 3 seconds.
- When the taillight is connected to your bike computer, check the remaining power of the taillight on the computer. When the taillight's remaining power is low, the computer will indicate that the taillight is in low power mode.

GREEN: 100%-40%, RED: 39%-11%, FLASHING RED: 10%-0%



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OUTPUT TABLE

MODE		LOW	HIGH	NIGHT FLASH	DAY FLASH	ECO FLASH	GROUP RIDE MODE	ONLY RADAR MODE
LUMENS		15LM	50LM	10/50LM	0/100LM	0/3/3/10LM	5LM	1LM
⌚ h:min	RADAR ON	14 : 30	08 : 00	11 : 54	16 : 12	24 : 00	20 : 06	26 : 18
	RADAR OFF	32 : 42	19 : 30	26 : 30	38 : 24	100 : 00	54 : 00	/

* The taillight modes are subject to the identification display of the bike computer's Light Mode control interface. Due to the different computer brands you use, here may be slightly different.

* The runtime of the only radar mode is for reference only.

*All data are measured in accordance with ANSI/NEMA FL 1-2009. The test was conducted at a temperature of 25°C and a wind speed of 25 km/h. The runtime may vary depending on external temperature and ventilation conditions, and these deviations may affect the result of testing.

MODE	ECO FLASH	LOW	NIGHT FLASH	HIGH	DAY FLASH	GROUP RIDE MODE	LIGHT UP IN THE LAST SELECTED RADAR FLASH MODE
RADAR FLASH INDICATOR	RADAR NIGHT FLASH			RADAR DAY FLASH		RADAR FLASH OFF	ONLY RADAR MODE
LUMENS	0/60LM			0/300LM		0LM	0/300LM

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LIGHT SOURCE

CREE XP-E2 *1
COB LEDs *2

RADAR FREQUENCY

24GHz-24.25GHz

MAXIMUM DETECTION DISTANCE

Up to 140 meters

MAXIMUM DETECTION TARGET AMOUNT

8

HORIZONTAL DETECTION ANGLE

35°

VERTICAL DETECTION ANGLE

45°

RELATIVE SPEED OF DETECTABLE TARGETS

10-160 km/h

DIMENSIONS

Length: 1.14 in / 29 mm
Width: 1.34 in / 34 mm
Height: 3.78 in / 96 mm
Weight: 3.84 oz / 109 g

WIRELESS PROTOCOL

Bluetooth, ANT+

VISIBILITY ANGLE

270°

BATTERY SOURCE

3.6V 3350mAh

BODY MATERIAL

Aluminum+plastic

LENS/REFLECTOR TYPE

PC optical lens

CHARGING TIME

2.15 hours (5V, 2A)

WARRANTY

2 year warranty

IN THE BOX

SEEMEE R300 *1
Seat post mount *1
USB-C charging cable *1
User manual *1

Note: Optional MJ-6556 saddle mount available

WATERPROOF IPX6



DROP TEST



COMPLIANCE



MAGICSHINE.COM © MAGICSHINE 07/02/24 V1
MADE IN CHINA

Note: There are slight differences between the picture and the real item caused by light color temperature. All the pictures are for reference only.