

















# COMPARISON CHART

# HEADLIGHTS / SAFETY LIGHTS

HEADLIGHTS											
	VOLT6000	VOLT1700	AMPP1100	AMPP800	AMPP800 with Helmet Mount	SYNC CORE	AMPP500	AMPP400	AMPP200	AMPP100	HL-EL135
LEDs Light Output	COB LED 6,000 lm / 7,000 cd	LED x 2 1,700 lm / 11,000 cd	LED x 2 1,100 lm / 6,000 cd	LED x 1 800 lm / 5,000 cd	LED x 1 800 lm / 5,000 cd	LED x 1 500 lm / 5,000 cd	LED x 1 500 lm / 4,500 cd	LED x 1 400 lm / 3,800 cd	LED x 1 200 lm / 2,000 cd	LED x 1 100 lm / 1,000 cd	LED x 3 150 cd
Battery	Li-ion	Li-ion, USB rechargeable Cartridge battery	Li-ion, USB rechargeable	Li-ion, USB rechargeable	Li-ion, USB rechargeable	Li-ion, USB rechargeable	Li-ion, USB rechargeable	Li-ion, USB rechargeable	Li-ion, USB rechargeable	Li-ion, USB rechargeable	LR6 (AA) x 2
Run Time (Approx.)	1 hr. (Dynamic) 6000 lm*1 2 hr. (High) 4000 lm*1 4 hr. (Middle) 2000 lm*1 8 hr. (Low) 1000 lm*1 12 hr. (All-Night) 500 lm*1 11 hr. (Hyper Constant) 2000 / 500 lm*1	2 hr. (High) 1700 lm 5 hr. (Middle) 500 lm 15 hr. (Low) 200 lm 12 hr. (Daytime HC)*2 1700 / 200 lm 150 hr. (Flasing) 200 lm	1.5 hr. (High) 1100 lm 2 hr. (Middle) 800 lm 4.5 hr. (Low) 400 lm 6.5 hr. (Daytime HC)*2 1100 lm / 400 lm 50 hr. (Flashing) 200 lm	1.5 hr. (High) 800 lm 2 hr. (Middle) 400 lm 4 hr. (Low) 200 lm 5 hr. (Daytime HC)*2 800 lm / 200 lm 30 hr. (Flashing) 200 lm	1.5 hr. (High) 800 lm 2 hr. (Middle) 400 lm 4 hr. (Low) 200 lm 5 hr. (Daytime HC)*2 800 lm / 200 lm 30 hr. (Flashing) 200 lm	2 hr. (High) 500 lm 9 hr. (Middle) 150 lm 15 hr. (Low) 100 lm 18 hr. (Daytime HC)*2 500 / 100 lm 130 hr. (Flashing) 100 lm	1.5 hr. (High) 500 lm 3 hr. (Low) 250 lm 5 hr. (Daytime HC)*2 500 lm / 250 lm 50 hr. (Flashing) 250 lm	2 hr. (High) 400 lm 4 hr. (Low) 200 lm 6 hr. (Daytime HC)*2 400 lm / 200 lm 60 hr. (Flashing) 200 lm	1.5 hr. (High) 200 lm 13 hr. (Low) 40 lm 30 hr. (Flashing) 200 lm	3.5 hr. (Constant) 100 lm 35 hr. (Flashing) 100 lm	320 hr. (Flashing) 80 hr. (Constant)
Mounting Position	Handlebar Helmet	Handlebar	Handlebar, Helmet	Handlebar, Helmet	Helmet	Handlebar Helmet	Handlebar, Helmet	Handlebar, Helmet	Handlebar	Handlebar	Handlebar
Bracket	ø22 - 35 mm FlexTight™ (H-34N HP) Helmet Mount HP	ø22 - 35 mm FlexTight™ (H-34N)	ø22 - 35 mm FlexTight™ (H-34N)	ø22 - 35 mm FlexTight™ (H-34N)	- Helmet Mount	ø22 - 35 mm Flex Tigh™ (H-34N)	ø22 - 35 mm FlexTight™ (H-34N)	ø22 - 35 mm FlexTight™ (H-34N)	ø22 - 35 mm Rubber strap	ø22 - 35 mm Rubber strap	ø22 - 35 mm FlexTight™ (H-34N)
Weight *Light Unit + Battery	118 g (Light Unit) 550 g (Control Unit / Battery Unit)	256.3 g	200 g	136 g	136 g	94 g	117 g	117 g	62 g	62 g	77 g
Recharge Time (Approx.)	5 hr.	5.5 - 15 hr.	3 hr. (2 A) - 5 hr. (1 A)	3 hr. (2 A) - 7 hr. (0.5 A)	3 hr. (2 A) - 7 hr. (0.5 A)	3 - 6 hr. * 3 hrs fast recharge using 1 A or higher USB charging adaptor, or using USB3.0	4 hr. (1 A) - 8 hr. (0.5 A)	4 hr. (1 A) - 8 hr. (0.5 A)	2.5 hr. (0.5 A)	2.5 hr. (0.5 A)	-
Dimensions	47 x 59 x 52 mm (Light Unit)	119.3 x 56 x 47.3 mm	48 x 105 x 34 mm	32 x 102 x 33 mm	32 x 102 x 33 mm	41.5 x 33.5 x 93.5 mm	34 x 100 x 37 mm	34 x 100 x 37 mm	86 x 35 x 33 mm (Light Unit)	86 x 35 x 33 mm (Light Unit)	36 x 84 x 26.5 mm

lm: Lumens cd: Candlepower

SAFETY LIGHTS																				
	VIZ450	VIZ300	VIZ150	SYNC KINETIC	RAPID X2 KINETIC	TIGHT KINETIC	RAPID X3	RAPID X	SYNC WEARABLE	WEARABLE X	WEARABLE MINI	REFLEX AUTO	OMNI 5	OMNI 3	ORB RECHARGEABLE	ORB				
LEDs	Red x 5	Red x 3	Red x 3	Red x 5	COB LED	Red x 5	COB LED	COB LED	COB LED	COB LED	Red x 1	Red x 5	White x 5	Red x 5	White x 3	Red x 3	White x 1	Red x 1	SL-LD160-F SL-LD160-R	SL-LD160-R-BE
Battery	Li-ion USB rechargeable	Li-ion USB rechargeable	Li-ion USB rechargeable	Li-poly USB rechargeable	Li-poly USB rechargeable	LR3 AAA x 2	Li-ion USB rechargeable	Li-poly USB rechargeable	Li-poly USB rechargeable	Li-poly USB rechargeable	CR2032 x 1	LR3 AAA x 2	LR3 AAA x 2	LR3 AAA x 2	LR3 AAA x 2	LR3 AAA x 2	Li-poly USB rechargeable	Li-poly USB rechargeable	CR2032 x 2	CR2032 x 2
Run Time (Approx.)	5 hr. (Constant) 65 hr. (Flashing) 10 hr. (Group Ride) 14 hr. (Daytime HyperFlash)	5 hr. (Constant) 45 hr. (Flashing) 8 hr. (Group Ride) 10 hr. (Daytime HyperFlash)	5 hr. (Constant) 70 hr. (Flashing) 11 hr. (Group Ride) 15 hr. (Daytime HyperFlash)	1.5 hr.*3 (High) 15 hr.*3 (Low) 30 hr.*3 (Flashing) 20 hr.*3 (Rapid) 15 hr.*3 (Group Ride) 30 hr.*3 (Daytime HyperFlash)	5 hr.*3 (Constant) 30 hr.*3 (Flashing) 16 hr.*3 (Rapid)	70 hr.*3 (Constant) 160 hr.*3 (Flashing) 140 hr.*3 (Rapid)	1 hr.*4 (High) 5 hr.*4 (Low) 30 hr.*4 (Flashing) 16 hr.*4 (Rapid) 16 hr.*4 (Group Ride) 8 hr.*4 (Daytime HyperFlash)	1 hr. (High) 5 hr. (Low) 30 hr. (Flashing) 16 hr. (Rapid) 16 hr. (Group Ride) 8 hr. (Daytime HyperFlash)	1.5 hr.*3 (High) 18 hr.*3 (Low) 45 hr.*3 (Flashing) 16 hr.*3 (Rapid) 12 hr.*3 (Group Ride) 25 hr.*3 (Daytime HyperFlash)	1 hr. (High) 10 hr. (Low) 30 hr. (Flashing) 10 hr. (Rapid) 10 hr. (Group Ride) 13 hr. (Daytime HyperFlash)	60 hr. (Constant) 550 hr. (Slow Flashing) 140 hr. (Rapid Flashing)	60 hr. (Rapid) 120 hr. (Long-Life) 30 hr. (Pulse) 100 hr. (Flashing) 30 hr. (Constant)	40 hr. (Rapid) 120 hr. (Flashing) 40 hr. (Constant)	120 hr. (Rapid) 90 hr. (Flashing) 60 hr. (Constant)	50 hr. (Rapid) 150 hr. (Flashing) 50 hr. (Constant)	200 hr. (Rapid) 150 hr. (Flashing) 100 hr. (Constant)	3 hr. (Constant) 6.5 hr. (Rapid flashing) 6.5 hr. (Slow flashing)	2.5 hr. (Constant) 5 hr. (Rapid flashing) 5 hr. (Slow flashing)	50 hr. (Constant) 100 hr. (Rapid flashing) 100 hr. (Slow flashing)	
Mount Size (mm / approx.)	ø21.5 - 32 mm SP-15 Fits aero seat post of up to 130 mm outer circumference	ø21.5 - 32 mm SP-15 Fits aero seat post of up to 130 mm outer circumference	ø21.5 - 32 mm SP-15 Fits aero seat post of up to 130 mm outer circumference	Rubber band mount ø26.0 - 31.8 mm	ø12 - 32 mm	ø12 - 32 mm FlexTight™ (SP-11)	Rubber band: ø12 - 32 mm Rubber base for sharp aero: ø95 - 155 mm	ø12 - 32 mm	Bike mount: ø26 - 32 mm	Bike mount: ø26 - 32 mm	Rubber band mount ø26.0 - 31.8 mm	ø21.5 - 31.8 mm	ø22.2 - 32 mm FlexTight™ (SP-12-F)	ø12 - 32 mm FlexTight™ (SP-11)	ø22.2 - 32 mm FlexTight™ (SP-12-F)	ø12 - 32 mm FlexTight™ (SP-11)	ø22 - 32 mm	ø22 - 32 mm	ø22 - 32 mm	Inside diameter of the handlebar ø18.5 - 22 mm
Other	Battery auto save	Battery auto save	Battery auto save	Kinetic mode Battery auto save	Kinetic mode Battery auto save	Kinetic mode	Battery auto save	Battery auto save	Kinetic mode (when used with SYNC Kinetic), Battery auto save	Battery auto save Bike mount included	Long rubber band for helmet also included	Reflector Auto light Rear rack mount included	Clothing clip included	Clothing clip included	Clothing clip included	Clothing clip included	-	-	-	-
Recharge Time (Approx.)	3.5 hr.	3 hr.	3 hr.	2.5 hr.	2 hr.	-	3 hr.	2 hr.	2.5 hr.	2 hr.	-	-	-	-	-	-	3.5 hr.	3.5 hr.	-	-
Dimensions	75.5 x 25 x 34 mm	75.5 x 25 x 34 mm	62.5 x 21 x 32.5 mm	74.5 x 26 x 28 mm	74.4 x 30.5 x 32.9 mm	36 x 77.5 x 23 mm	74 x 31 x 39 mm	74.2 x 24.4 x 30.8 mm	45.5 x 44 x 20 mm	45.5 x 44 x 16 mm	39 x 33 x 17 mm	44.3 x 81.4 x 30.3 mm	36 x 75 x 21.9 mm	36 x 75 x 21.9 mm	36 x 75 x 21.9 mm	36 x 75 x 21.9 mm	26 x 26 x 31 mm	26 x 26 x 31 mm	26 x 26 x 31 mm	26 x 26 x 51.8 mm
Snap System™	●	●	●	-	-	●	-	-	-	-	-	-	●	●	●	●	-	-	-	-

\*1 Consistent light output throughout battery life. \*2 Daytime HyperConstant  
\*3 When not using Kinetic Mode. \*4 When using the same illumination pattern simultaneously for both LED modules.