

POLARION SEARCHLIGHTS COMPARISON MATRIX



COMPONENT / SPECS	NIGHT REAPER (CSWL)	MODEL PH40	MODEL PF40	MODEL X1	MODEL P2	MODEL U2 (D & S) - DIVE LIGHT
Ballast	50W/40W	40W	40W	40W	35W	35W
Lamp Type	Xenon-Metal (MPXL)	Xenon-Metal (MPXL)	Xenon-Metal (MPXL)	Xenon-Metal (MPXL)	Xenon-Metal (MPXL)	Xenon-Metal (MPXL)
Max, Luminous Flux	5200-4200 lm	4200 lm	4200 lm	4200 lm	3400 lm	3400 lm
Lamp Color Temperature	4300K	4300K	4300K	4300K	4300K	S / 4300K - D/ 5500k
Lamp Life	Up to 2000 hours	Up to 2500 hours	Up to 2500 hours	Up to 2500 hours	Up to 3000 hours	Up to 3000 hours
Beam Divergence 1	Collimated Light - 3 Degrees	Collimated Light - 3 Degrees	Collimated Light - 3 Degrees	Collimated Light - 3 Degrees	Collimated Light - 3 Degrees	Spot (S Model) Exploration
Beam Divergence 2	Uncollimated Light - 20 Degrees	Uncollimated Light - 20 Degrees	Uncollimated Light - 20 Degrees	Uncollimated Light - 20 Degrees	Uncollimated Light - 20 Degrees	Diffused (D Model) Photography
Illumination Distance	Up to 1.5Km / 1 Mile	Up to 1.5Km / 1 Mile	Up to 1.5Km / 1 Mile	Up to 1.5Km / 1 Mile	Up to 1.5Km / 1 Mile	N/A
Input Voltage	DC 10V-18V	DC 10V-18V	DC 10V-18V	DC 10V-18V	DC 10V-18V	DC 10V-18V
Operational Current	3.5A	3.5A	3.5A	3.5A	3.5A	3.5A
Main Body/Bezel	Aerospace-Grade Aluminum (6061 T6)	Aerospace-Grade Aluminum (6061 T6)	Aerospace-Grade Aluminum (6061 T6)	Aerospace-Grade Aluminum (6061 T6)	6061 T6 Bezel / Composite Body/Handle	6061 T6 Body/Bezel / Composite Handle
Finish	Type III Hard Ano - Black	Type III Hard Ano - Black	Type III Hard Ano - Black	Type II Ano - Black or Silver	Bezel- Type III Hard Ano - Black	Bezel- Type III Hard Ano - Black
Weight w/o Battery	1.500 kg / 3.32 lbs	1.350 kg / 2.98 lbs	1.160 kg / 2.56 lbs	1.230 kg / 2.71 lbs	1.490 kg / 3.28 lbs	1.387 kg / 3.06 lbs
Weight with Battery	1.977 kg / 4.36 lbs	1.822 kg / 4.10 lbs	1.632 kg / 3.59 lbs	1.692 kg / 3.73 lbs	1.962 kg / 4.32 lbs	1.859 kg / 4.100 lbs
Overall Length	32.70 cm / 12 7/8"	30 cm / 12"	30 cm / 12"	25 cm / 10"	29 cm / 11.5"	25.4 cm / 10"
Bezel Diameter	10.79 cm / 4 1/4"	8.57 cm / 3 3/8"	8.57 cm / 3 3/8"	8.57 cm / 3 3/8"	8.57 cm / 3 3/8"	8.57 cm / 3 3/8"
Tail Cap Diameter	6.35 cm / 2 1/2"	7.3 cm / 2 7/8"	7.3 cm / 2 7/8"	7.3 cm / 2 7/8"	7.3 cm / 2 7/8"	7.3 cm / 2 7/8"
Body Circumference	17.8 cm / 7"	20.3 cm / 8"	19.0 cm / 7.5"	24.1 cm / 9.5"	N/A	23.5 cm / 9.25"
Integrated Carrying Handle	NO	YES	NO	YES	YES	YES - Removable
Tripod Adapter	YES - With Mount	NO	YES - With Mount	NO	YES - Integrated	YES - Removable
Lanyard Attachment Point	NO	YES	YES	YES	YES	YES
External Power/Switching	YES / YES	NO / NO	NO / NO	NO / NO	NO / NO	NO / NO
Internal Battery Type	Li-Ion Rechargeable Battery	Li-Ion Rechargeable Battery	Li-Ion Rechargeable Battery	Li-Ion Rechargeable Battery	Li-Ion Rechargeable Battery	Li-Ion Rechargeable Battery
Battery Capacity	CD 14.4V 4,400mAh	CD 14.4V 4,400mAh	CD 14.4V 4,400mAh	CD 14.4V 4,400mAh	CD 14.4V 4,400mAh	CD 14.4V 4,400mAh
Battery Runtime	70 minutes +/- 10%	80 minutes +/- 10%	80 minutes +/- 10%	80 minutes +/- 10%	100 minutes +/- 10%	100 minutes +/- 10%
Battery Fuel Gauge	YES	YES	YES	YES	YES	YES
Battery Change	Quick Swap	Quick Swap	Quick Swap	Quick Swap	Quick Swap	Quick Swap
Battery Weight	0.472kg / 1.04 lbs	0.472kg / 1.04 lbs	0.472kg / 1.04 lbs	0.462kg / 1.01 lbs	0.472kg / 1.04 lbs	0.472kg / 1.04 lbs
Charger Input Voltage	90V-240V / 50-60Hz	90V-240V / 50-60Hz	90V-240V / 50-60Hz	90V-240V / 50-60Hz	90V-240V / 50-60Hz	90V-240V / 50-60Hz
Charging Voltage	16.8V	16.8V	16.8V	16.8V	16.8V	16.8V
Charging Time	4 hours +/- 30 min	4 hours +/- 30 min	4 hours +/- 30 min	4 hours +/- 30 min	4 hours +/- 30 min	4 hours +/- 30 min
Charging Cycles	500+	500+	500+	500+	500+	500+
Universal Charger	A/C Standard 110/220V	A/C Standard 110/220V	A/C Standard 110/220V	A/C Standard 110/220V	A/C Standard 110/220V	A/C Standard 110/220V
D/C Charger	Available Option	Available Option	Available Option	Available Option	Available Option	Available Option
Water Resistant	YES	YES	YES	YES	YES	Waterproof to 100 meters
Carrying Case	YES	YES	YES	YES	YES	Soft Carrying Case / Hard Optional
Weapon Mountable	YES	NO	YES	NO	NO	NO
MSRP	\$4,295	\$2,195	\$2,195	\$1,795	\$1,495	\$1,895