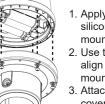


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POLE MOUNT

Install the Pole Mount



1. Apply a thin coating of silicone lubricant to the polemount o-rina. 2. Use the alignment keys to align the top cover and pole mount. 3. Attach the mount to the top

cover using the provided 6 screws. Do not over tighten!



Up to 6 bird deterrents can be installed: bird deterrents can be installed: 1. Insert a mounting screw through the bird deterrent. 2. Install the screw. Do not over tighten! 3. Bend bird deterrent as needed.

To install the lantern:

- 1. If required, insert the reducing sleeve into the pole mount. Note that it aligns only one way.
- 2. Slide the lantern and sleeve over the pole: press down to ensure lantern is well seated.
- 3. Secure with the provided 3 screws. If required, drill 1/8 - 9/64 in. (3.2 - 3.6 mm) pilot holes and then install the screws.



USER MANUAL

REGULATORY INFORMATION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Installation work must be done by a qualified person(s) in accordance with all applicable local codes and standards.

SAFETY AND USAGE PRECAUTIONS

The lantern's Battery Pack contains lead, lead compounds, and other compounds known to the State of California to cause cancer and reproductive harm. Please handle with care and wash your hands thoroughly after handling the Battery Pack.

Charge your lantern's Battery Pack periodically. Permanent damage and reduced capacity will result if the Battery Pack is not correctly maintained.

Lanterns that have been stored may require a top-up charge before they are put into service. The most accurate Battery Pack status reading is obtained when the lantern has been in a dark location and in Off mode for at least 24 hours.

INSTALLATION

Year-round, unrestricted solar exposure is critical to longterm performance. Shade dramatically reduces the ability of the light to charge its battery.

The OL2A has changeable mounts. Ensure either the 2-hole flange mount or pole mount is attached before lantern installation.

OPERATION

In daylight, the solar panel charges the battery using the Energy Management System (EMS). The capacity of the battery ensures that even with poor levels of sunlight over an extended period, the lantern has enough reserve power to continue to perform reliably. Stored battery energy then powers the LED during the night.

The change from night-to-day or day-to-night is called a transition. To avoid false transitions and ensure stable operation, the transition time is 2 minutes. For example, 2 minutes of dark is needed for the lantern to switch to night operation.

PROGRAMMING

The OL2A is configured using the IR programmer. The lantern's mating IR receiver is on an energy-saving sleep cycle.

Press and hold 0 for 2 seconds to awaken the IR receiver and begin communication with the lantern.

The lantern is now ready to accept programming. Note that the lantern will guickly flash after every key it receives. All programming codes follow the same sequence:

 \sim 3 quick flashes \sim 2 slow flashes Command accepted \sim Command rejected

The number symbol # represents 0 - 9. Commands can be rejected if they are unsupported, contain an incorrect key sequence or have an effective intensity too high for the programmed flash code.

2-HOLE FLANGE MOUNT

To attach the 2-hole flange mount



1. Use the alignment keys to align the top cover and flange mount. Press together. 2. Attach the mount to the top cover using the provided 3 screws. Do not over tighten! 3. Apply a thin coat of silicone

lubricant to the bottom cover o-ring. 4. Align the bottom cover and press

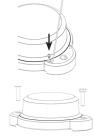
into the top cover. It only fits one way. 5. Secure the bottom cover with the provided 3 screws. Do not over tighten!

Up to 4 bird deterrents can be installed:

- 1. Insert the provided screw through the bird deterrent
- 2. Drive the screw into one of the 4 small holes on the
- top of the mount. Do not over tighten! 3. Bend the bird deterrent as required.

To install the lantern:

Fix in place with 2x bolts, studs & nuts, nails or screws. Recommended bolt size is 1/4-20 UNC or M6.



Alianment Kevs

SETTING THE FLASH

To set the flash pattern, enter its flash code using the IR programmer. Flash codes are listed in a table at the end of this document.



SETTING THE INTENSITY

The OL2A is programmed using effective intensity. Effective intensity is the brightness of a flashing light as perceived by the human eve (as opposed to peak intensity which is the actual intensity of a light during a flash). Effective intensity is calcluated using the following equation:

Peak Intensity (cd) x Flash Duration (sec) Effective Intensity (cd) = 0.2 (sec) + Flash Duration (sec)

The OL2A makes this calculation automatically based on your programmed flash code and effective intensity selected. Note that for a fixed/steady-burning light (code 001), effective intensity equals peak intensity. The range of intensity codes are:

- 0.1 0.4 effective cd 600
- 1 effective cd 601
- 602 2 effective cd

6## Maximum values vary by flash code and LED color

Example: Enter (ወ) 6 for intensity of 5 ecd 0

Product performance varies by installation location. Contact your sales representative for further details.



Alignment Keys

TURNING ON/OFF

In "on" mode, the OL2A LED turns on at night and off during the day. The lantern charges in sunlight, but the LED remains off when in "off" mode. When turned on again, the lantern activates at its last programmed settings (1 minute preview for daytime activations).

Option 1: Switched Models Set the switch to on or off position OFF

Option 2 : IR Programmer

Press (O) and hold 4 seconds. The lantern LED will fade on or off to confirm your setting change.

CHECKING BATTERY STATE OF CHARGE (SOC)

(ወ) Using the IR programmer, enter: 8 Good battery Charge battery

SOC <14%. LVD Active

If the battery is \leq 14%, low voltage disconnect (LVD) disables the LED and attempts to charge the battery to a sustainable SOC. The LED is re-enabled once SOC is >75%.

AUTOMATIC LIGHT CONTROL

During periods of sustained poor solar charging, Automatic Light Control (ALC) may decrease LED intensity based on battery SOC and recent charging trends. When solar charging returns to a sustainable level, ALC increases intensity back to the user setting. ALC may be disabled to keep the lantern at a constant intensity.

Disable ALC: Fnable AI C

SPECIFICATIONS

Visit warment for a base a low shows for a second state on a sification of

		Shiconhology	.com for complete specifications					
Temperature	-40 to 176 °F (-40 to 80 °C)	Light Source	High-power LED, >100,000 hrs. lifetime					
Intensity	See Flash Code table	Flash	See Flash Code table					
Divergence	>8 ° FWHM Vertical Divergence	Chromaticity	Blue, red, white, yellow, and green					
Battery	3x AA high-temperature nickel-metal hydride (NiMH), 1.2 V nominal each. -40 to 185 °F (-40 to 85 °C) ambient	Immersion	IP68, 3 ft. (1m) for 72 hrs.; EN 60529 MIL-STD-202G immersion & damp heat cycling, MIL-STD-810G rain & salt fog					
Regulatory	RoHS Restriction of Hazardous Substances Directive 2002/95/EC (RoHS) CE EN 60945, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3 FCC This device complies with Part 15 of the FCC Rules (see 15.109) ICES This Class [B] digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe [B] est conforme à la norme NMB- 003 du Canada.							
Patents	US and International patents apply							
			Pole Mount 0.9 lb (0.40 kg)					
	4.9-5.0 ln 124-128 mm 6.1 ln 154 mm		With sleeve: 1.9 in (48 mm) pole ID Without sleeve: 2.4 in (61 mm) pole ID Overtop mount: 2.8 in (71 mm) pole OD 2.4 in (71 mm) pole OD 2.4 in (71 mm) pole OD					

BATTERY CHARGING

The batteries are best charged inside the lantern. The OL2A can recharge 0 V or 0% SOC batteries back to 100% SOC:

Summer sunlight	8-12 hours
Winter sunlight	18-36 hours
60 W incandescent lamp	15-36 hours

A commercial charger designed for 1.2 V AA batteries can also be used.

Do not use a battery charger with >370 mA charge rate. High charge rates will over heat the batteries and cause internal damage.

Take care when charging using a lamp. Provide air circulation or a fan so that lantern and batteries do not exceed max, temperature.

BATTERY INSTALLATION

The OL2A comes with 3x AA industrial-grade, high-temperature NiMH batteries. The OL2A will only operate with all 3x batteries installed correctly. The lantern remembers its settings even when the batteries are removed.

Other rechargeable AA NiMH batteries will not void your warranty. However, shock, vibration, temperature and optical performance may be limited.

To install batteries:

- 1. Install batteries noting their polarity.
- 2. Apply a thin coat of silicone lubricant to the large sealing o-rina.
- Align top cover and assembly components; secure with 3. the provided screws. Do not over tighten!

FLASH CODES

Maximum effective intensity varies by flash code and color. "FL" is the flash duration (sec) and "EC" is an eclipse (sec). Intensities are IALA values (10th percentile) over a 360° horizontal measurement.

	de	FL1	EC1	FL2	EC2	FL3	EC3	FL4	EC4	FL5	EC5	Duty	Maximum Effective Intensity (cd)				
Code												Cycle	White	Yellow	Green	Red	Blue
000	off	0	0									0%	0	0	0	0	0
001	F	60	0									100%	29	25	23	18	8
012	FI (2) 6s 0.5	0.5	1	0.5	4							16.7%	20	17	17	12	6
016	FI (2) 8s 0.5	0.5	1	0.5	6							12.5%	20	17	17	12	6
043	FI 1.5s 0.5	0.5	1									33.3%	20	17	17	12	6
044	FI 10s 0.5	0.5	9.5									5%	20	17	17	12	6
049	FI 2.5s 0.3	0.3	2.2									12%	17	15	14	10	5
050	FI 2.5s 0.5	0.5	2									20%	20	17	17	12	6
051	FI 2.8s 0.3	0.3	2.5									10.7%	17	15	14	10	5
052	FI 2s 0.2	0.2	1.8									10%	14	12	11	9	4
055	FI 2s 0.5	0.5	1.5									25%	20	17	17	12	6
058	FI 3s 0.3	0.3	2.7									10%	17	15	14	10	5
059	FI 3s 0.5	0.5	2.5									16.7%	20	17	17	12	6
060	FI 3s 0.7	0.7	2.3									23.3%	22	19	18	14	6
061	FI 3s 1.0	1	2									33.3%	24	20	19	15	7
063	FI 4.4s 0.4	0.4	4									9.1%	19	16	15	12	5
064	FI 4s 0.5	0.5	3.5									12.5%	20	17	17	12	6
066	FI 4s 1.0	1	3									25%	24	20	19	15	7
	FI 5s 0.3	0.3	4.7									6%	17	15	14	10	5
069	FI 5s 0.5	0.5	4.5									10%	20	17	17	12	6
070	FI 5s 1.0	1	4									20%	24	20	19	15	7
072	FI 6s 0.5	0.5	5.5									8.3%	20	17	17	12	6
078	Iso 2s	1	1									50%	24	20	19	15	7
079	Iso 4s	2	2									50%	26	22	21	16	7
098	Mo(U) 10s 0.3	0.3	0.7	0.3	0.7	0.9	7.1					15%	17	15	14	10	5
	Mo(U) 10s 0.4	0.4	0.6	0.4	0.6	1.2	6.8					20%	19	16	15	12	5
103	Mo(U) 15s 0.7 0.5	0.7	0.5	0.7	0.5	1.9	10.7					22%	22	19	18	14	6
	Mo(U) 15s 0.7 0.7	0.7	0.7	0.7	0.7	2.1	10.1					23.3%	22	19	18	14	6
	Q 1.2s 0.3	0.3	0.9									25%	17	15	14	10	5
126	Q 1.2s 0.5	0.5	0.7									41.7%	20	17	17	12	6
129	Q 1s 0.3	0.3	0.7									30%	17	15	14	10	5
	Q 1s 0.5	0.5	0.5									50%	20	17	17	12	6
	Q(4) 20s 0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	16.5			10%	20	17	17	12	6
	Q(5) 20s 0.3	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	15.7	7.5%	17	15	14	10	5
	VQ 0.6s 0.3	0.3	0.3									50%	17	15	14	10	5
	FI 4s 0.4	0.4	3.6									10%	19	16	15	12	5
	FI (3+1) 20s 0.5	0.5	1.5	0.5	1.5	0.5	4.5	0.5	10.5			10%	20	17	17	12	6
	FI (3+1) 20s 0.6	0.6	1.4	0.6	1.4	0.6	4.4	0.6	10.4			12%	21	18	17	13	6
	Q 1s 0.15	0.15	0.85			-						15%	12	10	10	7	3
	CST9	0.6	0.3	0.6	0.3	1.5	56.7					4.5%	21	18	17	13	6
	FI 3.5s 0.7	0.7	2.8									20%	22	19	18	14	6

STORAGE

Turn the lantern off to store. In switched models, set the switch to the "off" position. To turn off using the IR programmer, press and hold (O) for 4 seconds.

- If a lantern detects continuous dark for 24 hrs., like when it's inside packaging for shipping or storage purposes, it will disable the LED. Upon sensing light, it will enable the LED and continue normal operation.
- Check the battery state of charge every 1 2 months and charge if required.
- High-grade NiMH batteries shipped with the OL2A can be stored without any charging for up to 12 months with no battery damage.

TROUBLESHOOTING

LED is off during the night	Batteries are very low and lantern cannot turn on	Charge the lantern or replace the batteries.					
	Batteries are low and LVD is active	Confirm with code 810 using IR programmer. Charge lantern or replace batteries. Decrease eff. intensity to a sustainable level.					
	Switch is off	Switch to on.					
	Night not yet detected	Wait for the lantern to detect 2 min. of consistent "dark."					
	Nearby light source is illuminating the lantern	Move away from light source, turn off unneeded light or shield lanterns.					
	Solar panel is not charging the battery well during the day	Under bright sunlight, enter code 815 using the IR programmer: 1x flash= too low for charging, 2x flashes = solar panel is fine					
No response to IR	Batteries are very low and lantern cannot turn on	Charge the lantern or replace the batteries.					
programmer	Sunlight is obscuring IR signal	Move the IR programmer closer to the lantern.					
Moisture	Condensation	Ensure the vent on the bottom cover is not dirty or obstructed.					
inside	Seal failure	Ensure bottom cover o-ring is dry (no water), lubricated and fully seated; o-ring is not pinched; all screws are fully installed.					

MAINTENANCE

Although the OL2A is maintenance-free, performance gains can be made. Clean with water and a soft sponge or cloth. A mild non-abrasive cleanser can be used for more stubborn residue. Clean more frequently during drier months as dust accumulates more quickly. Check the exterior and o-rings for cracks and missing or broken hardware.

RECYCLING

This product may contain substances that could be harmful to the environment or human health if improperly handled at the product's end of life. Check your local municipality for electronics recyclers.

The batteries are rechargeable nickel-metal hydride (NiMH). Consult your local laws for information on recycling. Ni-MH

This product complies with the European Union's requirements according to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE).

WARRANTY

This product is covered by the Flash Technology warranty. Failure to comply with the use, storage, maintenance or installation instructions detailed in this manual could void the warranty. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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