



## **H10 SEEKER™**

### **High Intensity Discharge Xenon Search Light**

Tektite, a leader in underwater lighting technology, offers the new H10 SEEKER. High Intensity Discharge (HID) lights are the newest standard for lighting in the technical diving and land search arena and are gaining wide acceptance among recreational divers.

The H10 Seeker incorporates the latest HID arc lamp technology. HID lamps produce four to six times the light output of an equivalent wattage halogen—meaning the 10 Watt H10 Seeker is equal to a 50-60 Watt halogen light—translating to greatly increased burn time, increased visibility and solar-quality light perfect for photography and videography.

Mounting configurations vary to suit your preference; belt mount, tank, or backpack mount. The best part is that you can configure the system differently for each use.

- Mount the H10 Seeker light head onto the pistol grip handle and you have a fantastic dive, caving or searchlight.
- Mount onto your video or camera housing and you have a perfect light for video and photography (with optional diffuser).

The 10-Watt H10 Seeker HID lamp is the latest revolution in HID lighting technology. Its small size, ultra-long burn time and low price make it ideal for divers requiring longer burn time without a larger battery pack and an excellent choice for quality HID on a budget.

#### **White Light:**

The light produced by Tektite's H10 Seeker has a color temperature in the range of 5000° - 6500°K, similar to sunlight. For a comparison, halogen lamps operate in the 3000°-3200°K range and incandescent lamps in the 2800°-2900°K range. In visible terms, the lower the color temperature the more red or yellow the light; the higher the color temperature, the whiter the light and more realistic the visualization of color and contrast. The 5000°-6500°K color temperature of the Tektite Seeker is a whiter, cooler light that more clearly reproduces the full range of colors; making H10 Seeker perfect for videography or photography.

#### **A Really Tough Light:**

The H10 Seeker uses an HID arc lamp that is extremely resistant to thermal and mechanical shock. HID lamps produce most of their light in the visible region, unlike filament lamps that give off a tremendous amount of energy as heat, meaning you can operate the H10 Seeker on out of the water without the risk of damaging it.

The H10 Seeker incorporates a new generation submersible battery system. The H10 Seeker battery is lighter, smaller and more powerful than existing battery systems; because of the Nickel Metal Hydride battery pack. Tektite NiMH batteries have numerous advantages over other battery chemistries, such as:

- Half the size and weight for the same power capacity of Sealed Lead Acid batteries.
- Twice the charge cycle life and burn time of NiCads.
- No cell memory
- Ability to withstand high charge/discharge currents
- Built-in thermal/high current protection.

The battery canister is made of highly durable PVC and comes with captive double O-ring "screw on" lids, a heavy-duty switch and right angle strain relief. A Smart Trickle Charger (STC) is included with the H10 Seeker. The STC comes with a universal power supply, which accommodates an input voltage of 100 to 260 VAC at 50 or 60 Hz.

### **Specifications:**

The H10 Seeker has a smoothly focusable light head that ranges from a fog and smoke penetrating 3-degree spot beam to a super-wide angle flood beam.

- 10 Watt HID Arc Lamp
- Lumens: 450
- Lamp head with 40 inch (102cm) cable
- Quick-release pistol grip
- Rated Median Life @1 hr/start: 1000 hrs
- Correlated Color Temperature: 6000°K
- Current (@12 V): 1 Amp
- Run Time: approx. 4 hours
- Nickel-Hydride battery pack
- Warm-up time to >19% of rated output: 10 seconds
- Restart time to >90% of rated output: 5 seconds
- Input Voltage: 12VDC
- Depth Rating: 360 feet/ 120m
- Head Dimensions: 3.25" x 2.0" (8.3cm x 5cm)
- Battery Pack Dimensions: 2.3"D x 10.5" L (5.8cm x 26.7cm)
- Weight: 3.8lb / 1.7kg
- Buoyancy: -1.4lb / -0.6kg

# Tektite H10 Seeker HID Light System Instructions

Your H10 Seeker comes with the battery disconnected and uncharged. Follow these directions to set up your new light:

## **CHARGING INSTRUCTIONS**

- 1) To open the battery canister, slide the supplied "Pin wrench" partway out of the bottom lid hole and use it for leverage to loosen the lid.
- 2) The battery should only be accessed through the bottom lid.
  - **Removal of the top lid could cause twisting and damage to the wiring.**
- 3) The lid has two O-rings—the thicker O-ring is placed in the groove and the thinner O-ring at the top.
- 4) The battery will be unplugged. Gently move the plugs out of the way of the battery, and remove battery from canister.
- 5) Verify that the charger you are using is for the H10 SEEKER (*many chargers look alike*). Never use a charger other than a Tektite approved charger for this battery.
- 6) Plug the charger into the wall outlet then connect the battery to the charger.
  - **ALWAYS charge the battery OUTSIDE the canister.**
- 7) Charger light will illuminate during charging.
- 8) Battery will be fully charged in 18 to 24 hours. The trickle charger light will remain on as long as the battery is connected.
  - You should charge the battery once a month when the battery is not being used.
- 9) Use caution to prevent shorting terminals or wiring.
- 10) Use caution when handling the battery; avoid dropping or denting the battery pack, as this could cause a short.
- 11) Keep battery charged to ensure a long and dependable battery life.
- 12) Improper use could result in a potential fire or explosion.
- 13) Store the battery outside the canister.

## **INSTALLING THE BATTERY (When you are ready to use your light)**

- 1) ALWAYS check the lid O-rings for nicks and dirt. Use a clean, lint free cloth to wipe the O-rings. Check the O-rings to insure they are properly positioned. A light coating of silicone O-ring grease is all that is required (a starter tube is included).
  - **Remember, O-rings are what make the light waterproof; excess grease just picks up dirt and doesn't add additional sealing.**
- 2) Disconnect your battery from the charger and slide it into the canister being careful not to catch or pinch the wires.
- 3) Connect the battery plugs.
- 4) Place the lid onto the canister, carefully screw closed the lid, being careful not to catch or pinch the wires.
- 5) Attach battery canister to belt or equipment harness.
  - *HINT: Position the battery canister so that the switch is within easy reach.*
- 6) Verify operation; the light should be turned on for no less than 30 seconds.
  - Tektite HID lights can be operated out of water.

## **OPERATING INSTRUCTIONS**

- 1) Position the battery canister so that the switch is within easy reach.
- 2) Turn the switch on by squeezing the switch lever together towards the cord connector, with thumb and forefinger.
  - With a few practice tries, you'll be able to *feel* when the switch is in the "on" position.

- 3) If for any reason the light goes off, the switch should be placed in the off position for at least 10 seconds prior to restarting (this allows the electronics time to reset).
- 4) To focus light: Start with the lens in the most clockwise (screwed-down) position (looking at the lamp, facing toward you). Slowly unscrew the lens Counter-clockwise to widen beam. Don't unscrew it past the O-rings.
  - **Over-loosening the lens could cause the light head to flood**
  - **Do not look directly into the bulb when lit; eye damage can occur.**
- 5) When you are finished diving, rinse the entire system with fresh water, dry it off, open the canister and disconnect the battery before storage.

## **TRAVELING WITH YOUR H10 SEEKER**

- 1) When you are finished diving, rinse the entire system with fresh water, dry it off, open the canister and disconnect the battery prior to traveling
- 2) If you ship your system with the battery inside the canister, remove the O-rings from the lid; this will increase the life of your O-rings. Store O-rings in a clean Zip lock bag.
- 3) Wrap the battery canister and light head in shock absorbing material (towel, clothing, etc.) to prevent damage.

## **BULB REPLACEMENT**

- 1) Unscrew the light head lens.
- 2) Remove the small spacer ring, reflector and spring (keep them clean for best performance).
- 3) Wiggle the lamp out of the socket.
- 4) Place new lamp into socket, making sure the "key" on the lamp base aligns with the slot in the socket. Make sure it seats. Clean any fingerprints off the lamp for best performance.
- 5) Check the two head O-rings for nicks and dirt; make sure the inside surface of the lens that rides on the O-rings is also clean. Use a clean, lint free cloth to wipe the O-rings. Check the O-rings to ensure they are properly seated. A light coating of silicone O-ring grease is all that is required.
  - ***Remember, O-rings are what make the light waterproof; excess grease just picks up dirt and doesn't add additional sealing.***
- 6) Replace the spring, then the reflector, and the spacer ring last. The ring has a small lip that rests inside the front of the reflector to keep it in place.
- 7) Replace the lens: Push the lens over the O-rings, and add slight downward pressure while turning. Be careful not to cross-thread. GENTLY screw down all the way until it stops, ***do not tighten.***

**Please contact Tektite if you have any questions regarding this or any Tektite product.**

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