



**SPECIAL NEEDS**  
**COMPUTERS** 



# **LITE BOX**

*Person-centered-positioning*

*Switch-activated*

*Light box activities made accessible!*

# Product Guide

In keeping with our philosophy to provide access to information for people who are blind or low vision, the American Printing House for the Blind provides this guide as an accessible PDF on the product's online shopping page.

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Thank you to the teachers in Alamogordo, Albuquerque, and Gallup, New Mexico, and to the teachers of Northeast Metro #916 Minneapolis, Minnesota who tested the LED Mini-Lite Box production sample for APH.

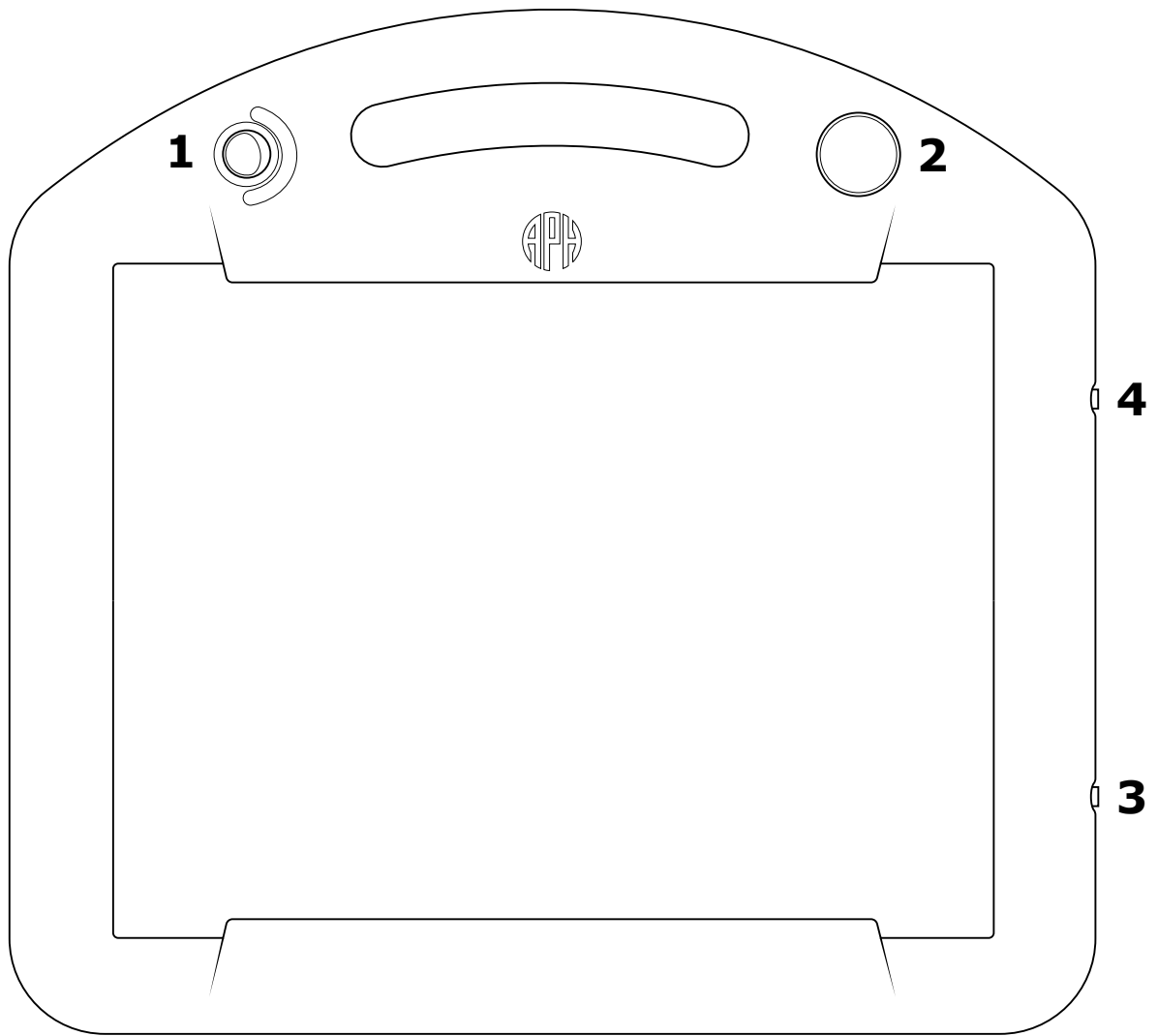
APH extends a special thank you to Nicholas Hadfield, TVI, COMS, at Northeast Metro #916 for his insight and constant availability, plus his prowess to ask the right questions and to know the answers.

Parts List

**Catalog Number 1-08654-01**

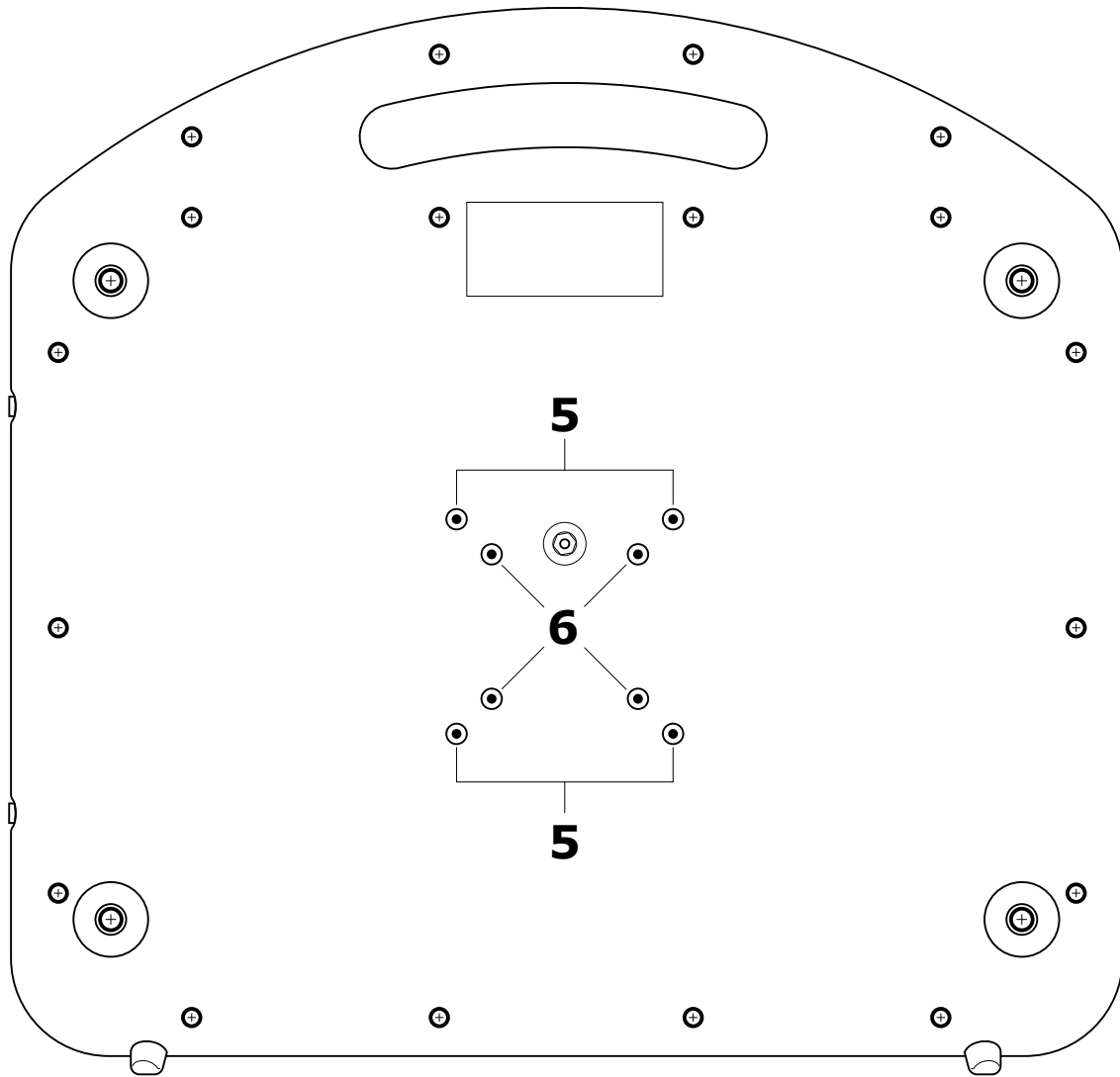
<b>APH Number</b>	<b>Item Description</b>	<b>Quantity</b>
1-08654-01	LED Mini-Lite Box	1
	Instruction Booklet, Large Print	1
	Braille Note	1
1-08656-00	LED Mini-Lite Box adapter (with positive tip, 100-240VAC, input, 16.8VDC@1.8A output)	1

APH number items are available for separate purchase.



Front

1. On/Off power switch
2. Variable brightness control
3. Recharge jack
4. Remote switch jack



Back

- 5. Holes for Rehadapt VESA 75x75 and RAM® VESA
- 6. Holes for BlueSky Design Mount'n Mover™ QRP

**Introduction.** Thank you for purchasing an LED Mini-Lite Box (LED Mini) designed by the American Printing House for the Blind. APH designed this new light box for several reasons. Fluorescent tubes used in APH's light boxes became obsolete as new, more energy-efficient LED lights gained preference by consumers. In addition, APH supports the U.S. government's initiative to phase out fluorescent tube lightbulbs. We could have placed an LED panel inside our original Mini-Lite Box housing, which served APH consumers well for many years; it was and still is a tribute to those APH employees who developed it many years ago. However, today, early childhood centers and K-12 schools serve a large number of learners who have multiple disabilities in addition to visual impairments. Many of these learners spend at least a part of each day using a mobility or support device, such as a wheelchair, gait trainer, or stander. APH recognized the need to design a lighter weight light box that a sturdy table mount or wheelchair mount could support. The LED Mini only weighs 4 pounds. It is hard for a learner in a wheelchair to look down to a light box sitting on a table. This is even more difficult if the learner uses any type of neck support. A child with profound disabilities benefits when he or she has access to person-centered accommodations, such as an elevated light box.

**Important! Read before using the LED Mini-Lite Box for the first time.** The LED Mini offers variable (100 to 8,500) lux. Lux is an efficient measurement for determining what we see as the brightness of a beam. APH measures lux on the surface of the light box plate.

*Batteries.* Laws prohibit the shipping and storing of rechargeable lithium batteries that have a full charge. Therefore, consumers need to charge the LED Mini to full charge before using it the first time. Do this by using the APH LED Mini-Lite Box adapter (i.e., charger, recharger) (included) for approximately 6-10 hours.

The light on the adapter will appear green when fully charged. The average battery charge will last 12-15 hours when using the LED Mini at medium brightness and 6-8 hours when using it at full brightness. The life expectancy of the battery pack in the LED Mini is 8-10 years.

- Do not remove any of the perimeter screws and open the LED Mini. If you experience a problem, refer to the Troubleshooting section of this guide.
- Do not store your LED Mini in extreme heat. It will diminish the life span of the battery.
- Prior to traveling on an airplane with the LED Mini, run the battery down until it gives the low-battery beep warning. Always check updated TSA regulations regarding carry-on items versus items checked into the cargo hold.

*Serial Number.* Do not remove the serial number on the bottom of the unit.

**Mounts.** APH knows that the following tabletop mounts support the weight of the LED Mini-Lite Box.

- Mount'n Mover™ (with quick release plate-QRP) by BlueSky Design provides multiple positioning for height, rotation, and tilt. The shoulder-elbow-wrist design has extraordinary reach capabilities to extend across a wheelchair tray.
- The ClampOnMount 12.1760 (with quick release VESA 75x75) by Rehadapt provides multiple positioning for height, rotation, and tilt. Teachers who field-tested the LED Mini appreciated the easy setup of this mount. Other Rehadapt mounts that use the same VESA plate may hold the weight but APH did not test other Rehadapt mounts.

- The combination of RAM-246-AD1U (VESA plate) + RAM-201U-D (double socket arm) + RAM-224-3U (triple twist suction cup) by RAM® Mounts supports the weight and is economical. The VESA plate is not quick release. The mount is not as tall and does not provide as many extension, tilt, and rotating positions as the other two, however, one can attach the super-powerful suction base to a table or to a smooth, non-painted vertical surface (e.g. glass, plexiglass, metal) at any height to accommodate a learner. When mounting vertically, always do a pull-down test before a child uses it. The RAM® optional 18" rod will not support the LED Mini's weight, so you must use the shorter 9" double socket arm. You may need to purchase #8 washers and matching rubber O-ring in addition to the screws to secure the VESA plate to the LED Mini.

These three mounts are available with wheelchair clamps, but be sure to discuss with a mount company representative how low the clamp attaches to the specific wheelchair, gait trainer, or other ambulatory device. If attached low, the LED Mini may only extend as high as a standard tabletop, which will not provide the person-centered accommodation that the user needs. It may be advisable to designate one location in the classroom or home to do light box activities. Position a tabletop mount so the ambulatory device can sit close enough to allow the user's arms to reach the LED Mini. If you need a smooth, vertical surface, consider attaching a sheet of plexiglass to a wall with screws secured to the wall studs.

There may be additional mounts that support the weight of the LED Mini, but during development, the three listed above were available. If you find another mount, remember to consider the additional weight of materials you may use on the LED Mini, such as the Plexiglass Spinner (#1-08664-00).



**APH Support Product.** APH's Mini-Lite Box Ledge with Dycem® (#1-08657-00) is a formidable companion product to the LED Mini for learners who need assistance keeping learning media on a tilted surface.

**Safety.** No child should use the LED Mini-Lite Box without the direct supervision of a teacher or other adult familiar with the following safety instructions.

1. Check the LED Mini-Lite Box before each use for any damage to the unit, such as exposed electrical components, frayed cord, or any other potential hazard.
2. In the United States and Canada, operate only on 120V AC, 60 cycle electrical outlets. In Mexico, operate on 127V AC, 60 cycle electrical outlets. Outside of North America, the LED Mini-Lite Box operates with a proper AC line adapter that goes to 240V AC.
3. The consumer should not defeat the three-prong, ground supply line.
4. Do not allow the child to play with the electrical cord, plug, or four-position tilt stand.
5. Do not permit the child to drop, hit, stand, or sit on the LED Mini or engage in any other activity that might damage the unit or expose electrical components.
6. Keep the LED Mini away from liquid or moisture. When using acetate sheets for drawing with markers, remove the sheet from the unit to clean. If it is necessary to clean the unit, disconnect and wipe with a damp (not wet) cloth.

**Note to Consumer.** The LED Mini-Lite Box adapter (i.e., charger, recharger) is c  US LISTED and C€ approved.

## Troubleshooting

*Question:* My student was using a switch with the LED Mini-Lite Box and it stopped working, as if the battery was dead, but I had just recharged it until the charger light was green.

*Answer:* The lithium-ion batteries have a safety feature to shut themselves down in occurrence of a fault, such as nearby radio interference. To correct this, plug the light box adapter into an AC outlet and plug the LED Mini into the adapter, turn the light box on to reset it, and then unplug it from the adapter. The light box should remain on.

*Question:* Where can I get replacement screws?

*Answer:* Mount plates should ship with screws from the mount vendor. If they do not or if you lose any of the screws, you can replace them at most local hardware stores.

- Stainless Steel (SS) Truss Head Phillips Screws #8 x 32th x .500" L. attaches the black APH four-position tilt stand.
- Stainless Steel (SS) Flat Head Phillips Screw #8 x 32th x .500" L. attaches the BlueSky Design QRP and the Rehadapt VESA plates.
- Stainless Steel (SS) Truss Head Phillips Screws #8 x 32th x .500" L. plus a # 8 washer and matching rubber O-ring attaches the RAM® VESA plate.

*Question:* Does APH repair the LED Mini-Lite Box?

*Answer:* If you need to send your LED Mini back to APH for service, it is very important that you send back both the light box and the adapter. APH is unable to assess a problem without each piece, as the problem could be in any one of the components. Include a note with contact information and an explanation of the problem.

If the unit is not under warranty, APH charges a \$50.00 handling/evaluation fee. APH requires the payment of the fee before examining the unit. If the actual repair exceeds the \$50.00 evaluation fee, APH will contact the customer for approval before proceeding with repairs. Send to:

American Printing House for the Blind  
Attn: Repair Department  
1839 Frankfort Avenue  
Louisville, KY 40206

**Customer Service.** Each LED Mini-Lite Box has a serial number on the bottom. Do not remove this number; you may need it if you call customer service. If you experience trouble with any APH product, please call our customer service staff at 1-800-223-1839.

**Limited Warranty.** The LED Mini-Lite Box comes with a warranty that expires one year from the date the product ships to the end user. Warranty does not apply in cases of customer modification, misuse, or abuse of APH products.

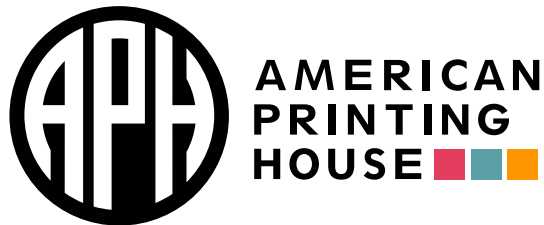
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Mount'n Mover™ is a trademark by BlueSky Design.

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