



LED Light & Bright Panel

Here's What You Get!

- Light Panel with illuminated 12" x 16" area
- AC Adaptor (5V)
- Teacher's Activity Guide

Instructions for Safety, Use and Care: Read First!

Safety:

The Light Panel and AC Adaptor are for indoor use where they will not be exposed to wet conditions. Do not use with or near water. Only use the AC Adaptor that was supplied with your Light Panel. Plug your adaptor into an electrical supply that does not exceed the voltage marked on the rating plate located on the adaptor. The Light Panel is designed to operate from Input: AC 100-240 Volts, 50-60 Hz AC, Output: 5 Volts 2A. The manufacturer will not accept responsibility for damage or injury caused by connecting the adaptor to the incorrect voltage. If the adaptor becomes damaged it should be replaced with an adaptor of the same type and rating to avoid a hazard.

Use:

An adult should plug the AC Adaptor into a wall plug and then plug the AC Adaptor into the port on the side of the Light Panel. An adult or child may turn the knob to increase and decrease brightness. A click will sound when the knob is turned to the off position. Although the LED lights will burn for up to 100,000 hours, turn knob to off and unplug after each use. Do not place heavy items on the Light Panel. Do not apply pressure to the illuminated panel center when playing. Use the Light Panel flat on a flat surface. The Light Panel is not designed to stand or balance on its side.

Care:

Clean the Light Panel with a dry, soft cloth. For tougher dirt removal lightly dampen a cloth with water, but do not allow any excess water to seep inside the unit. Do not press down hard on the center of the panel. Do not use solvents or harsh detergents that may damage plastic surfaces. If you plan to place dry items such as leaves and dirt on the surface, place wax paper or cellophane on the Light Panel first for easy cleanup.

LED Light & Bright Panel (continued)

Introduction:

The LED Light & Bright Panel is an important addition to any classroom or center because analyzing articles and materials on a lighted surface makes learning much more engaging for the child. Using translucent materials (light can easily travel through, regardless of the color) on the LED Panel will allow children further observation and enrichment. Even placing opaque (solid) materials, where light does not pass through, will be a learning experience for young children.

Use LED Light & Bright Panel to address these Core Standards and these Guidelines from the Head Start Early Learning Framework

- P-ATL 8. Child holds information in mind and manipulates it to perform tasks.
- P-ATL 11. Child shows interest in and curiosity about the world around them.
- P-ATL 13. Child uses imagination in play and interactions with others.
- P-SCI 1. Child observes and describes observable phenomena (objects, materials, organisms, and events).
- P-SCI 3. Child compares and categorizes observable phenomena.
- P-SCI 4. Child plans and conducts investigations and experiments.
- P-SCI 6. Child analyzes results, draws conclusions, and communicates results.
- P-MATH 2. Child recognizes the number of objects in a small set.
- P-MATH 6. Child understands addition as adding to and understands subtraction as taking away from.

Suggested uses for LED Light & Bright Panel:

- Use translucent counters to do simple math problems, such as one-to-one counting, and beginning addition and subtraction. Counters on the LED panel can help reinforce math skills.
- Use some translucent materials, as well as some solid materials. Have the child place them on the Light Panel and determine which ones allow light to travel through.
- Place science items, such as leaves, pinecones, insects, etc., on the LED panel and allow the child to have a closer look at the items.
- Use translucent alphabet letters to help reinforce learning the names of the alphabet letters.
- Do a color mixing activity using clear cups. Carefully place a piece of clear cellophane over the LED panel. Create separate cups of yellow, red, and blue paint. Mix the colors together to create secondary colors. The light from the LED panel will make the activity even more engaging.