

Summary

The ALPHA Light Box can be wall-mounted above or below an ALPHA Series display, following the installation guidelines given below. Although designed to custom match the ALPHAVISION FS Series, these signs can also be installed standing alone or with other ALPHA products. The mounting specifics for installation on an angled wall include some differences from the procedure for mounting on vertical walls.


Part and tool lists


Quantity	Part	Description
1	Light box	Standard width (less than 50 inches), or Double Length (twice standard width).
3 (or 5)	Mounting Brackets/ Stand-offs	See Installation guidelines, following, to determine most suitable options for your installation, or if you will be using both brackets and stand-offs.
2 per bracket	Mounting screw or toggle bolts	Supplied by customer. Must be one quarter inch (0.25"/6.4 mm) diameter, at least 1" (2.5 cm) long, and capable of supporting 100 lbs. (45 kg), and 200 lbs (90 kg) in Double Length installations.
2 per bracket	Wall anchors or toggle bolts	Supplied by the customer, whenever required, to match type of supporting wall and other hardware.
1 per screw	Washer	Supplied by customer, 0.25" (6.4 mm) flat washer.

Quantity	Tool
1	Drill and assorted bits.
1	Tape Measure, yardstick
1	Screw or socket driver
1	Pencil, chalk or marker
	Isopropyl alcohol or other cleaning product

Safety

- To install any Double Length Lightbox, or wherever the reliability of the supporting wall is doubtful, an extra mounting bracket is required in both the top and bottom rows of brackets. (Refer to the drawing on the next page for locations of support brackets.)
- Light box enclosures can be mounted on a vertical wall, above or below an ALPHA display, or all alone. They can also be mounted on an *angled* wall, so long as the angle *does not exceed* 45°. Installation guidelines for vertical and angled walls are different, and follow in sequence.
- Always disconnect power before you start, to avoid any chance of electric shock.
- Units must be mounted indoors to prevent shock and fire hazards.
- These instructions are for installation of Light box enclosures *only*. To mount an ALPHAVISION FS sign, see Adaptive publication 9711-2101, Installation Instructions for ALPHAVISION FS Series.

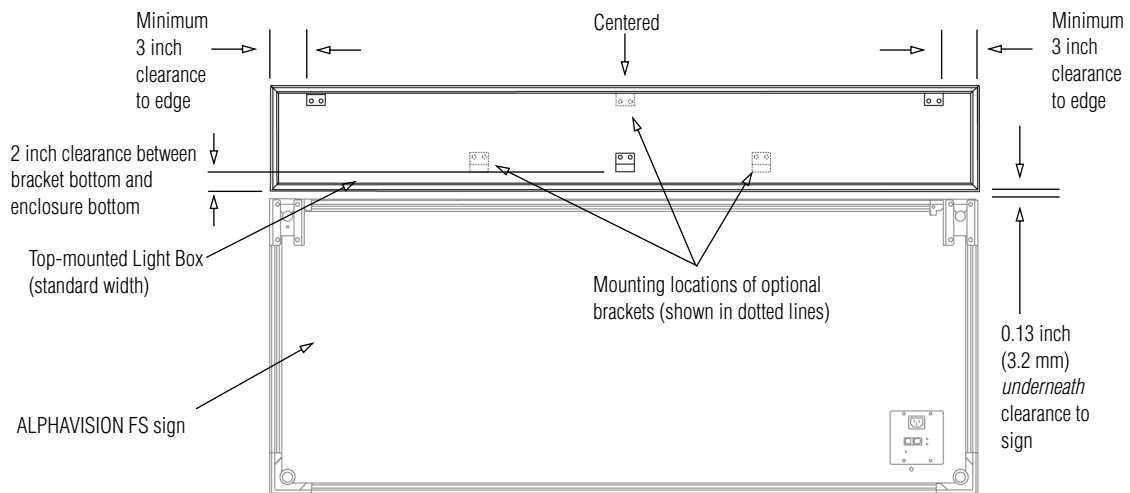
⚠ WARNING	
	<p>Possible shock or fire hazard. Always mount unit indoors. Exposed mounting makes the unit a possible source of electric shock or may cause a fire, which could result in serious injury or death.</p>

⚠ WARNING	
	<p>Possible crush hazard. Supporting wall and mounting system must be capable of holding at least 4 times the unit's weight. If mounting gives way a falling unit can cause serious injury or death.</p>

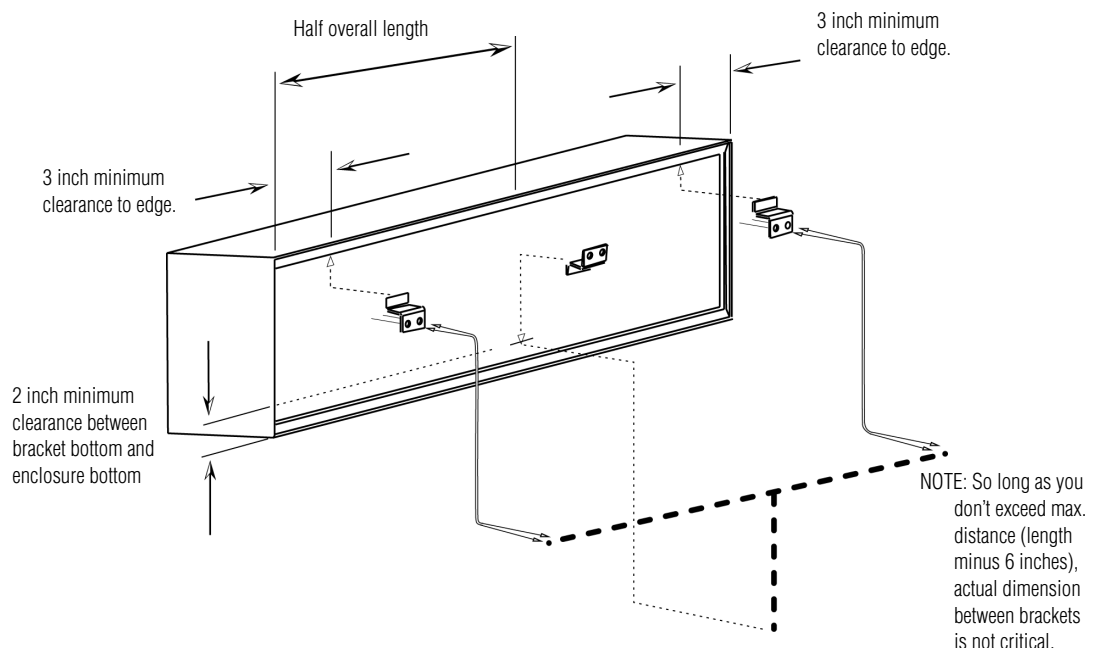
Installation guidelines to mount on a vertical wall

- Place the light box flat on the floor, face down, and place all brackets on the back panel to measure installation dimensions. See drawing below. Add extra brackets in suggested optional mounting locations for very long (double length) signs, or if the supporting wall surface lacks strength.
- Measure and record distances between bracket edges. Note that lower brackets do NOT fit into the bottom edge of the back frame. They should be a of minimum 2 inches *above* the bottom edge.

NOTE: Clean the back of the enclosure now to help minimize discoloration or staining of the wall surface, if the enclosure is going to be removed or relocated.

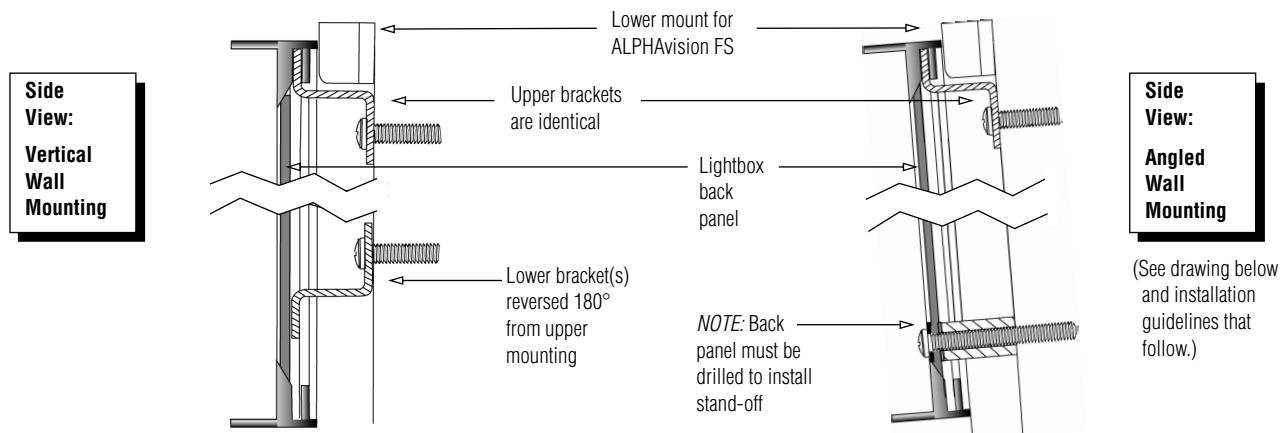


- Allow for at least 0.13" (3.2 mm, a little more than 1/8") clearance between the bottom of the enclosure and top of the sign.
- For installation *below* an ALPHAVISION FS sign, minimum *overhead* clearance must be 0.63" (15.9mm), between the top of the Lightbox enclosure and the bottom of the sign.
- Transfer dimensional information to mounting surface, clearly marking all drill points for mounting brackets, as shown in the drawing below.



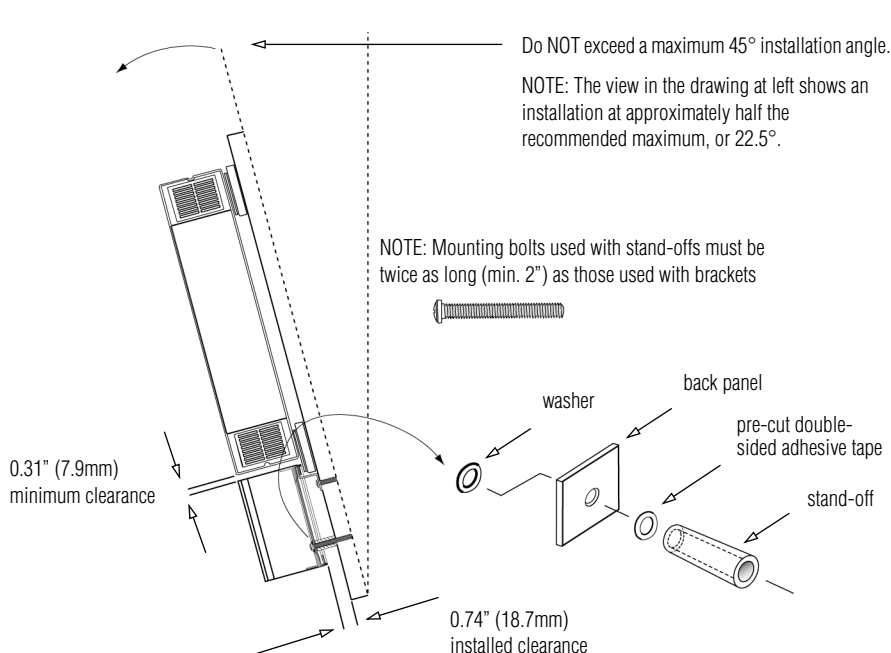
Installation guidelines to mount on a vertical wall

- Mark a straight horizontal line on the wall where upper brackets will be installed. Using brackets themselves as a template, center bracket openings on the horizontal line and drill holes for them.
- Install bracket mounting hardware in the wall, according to whichever type of mounting system has been selected (toggle bolts, screw anchors, etc.)
- Hang the light box enclosure by slipping the upper groove over the tip of each upper bracket. The lower bracket(s) act as stand-offs, keeping the front of the enclosure perpendicular to the ground.
- A side view of the alternate (angled wall) installation procedure is shown in the drawing below. NOTE: You may wish to consider alternate installation for use on a *vertical* wall if the sign is to be mounted in a high traffic area, where passersby or shoppers may be carrying armloads of boxes or other hazards. Screw anchors provide more secure mounting than rail brackets in side impacts.



Installation guidelines to mount on an angled wall

The side view below shows the mounting system for an angled wall, with an ALPHA Lightbox installed directly underneath an ALPHAVISION FS display. Upper brackets are identical to those used in vertical wall installations and are mounted following the same guidelines. Lower stand-offs, however, require removal of the plexiglass panel in the front of the enclosure.



WARNING
for the front service panel of
ALPHAVISION FS MODELS
(often mounted with the Lightbox)

⚠ WARNING
<p>Possible crush hazard. Engage prop bar if access door is opened, or the panel could close unexpectedly, causing possibly serious injury.</p>

Installation guidelines to mount on an angled wall (continued)

1. Installing a Lightbox enclosure with lower stand-offs is a two-person job. Someone must hold the Lightbox while fasteners are being installed through the lower part of the panel.
2. A single lower stand-off in the middle of the sign is adequate for installation of standard length Lightbox enclosures. For Double Length installations, or where the reliability of the supporting wall is in doubt, two stand-offs near each lower corner are recommended.
3. Snap the hinged fasteners on the front cover of the enclosure to release the front plexiglass panel.
NOTE: Hinged fasteners may be located on either side of the front cover, or in locations where 3 Lightboxes are installed end-to-end, in a single horizontal row, the center Lightbox will have a hinged fastener located midcenter, underneath.
4. NOTE: Custom installations may require that you observe other specifications for minimum clearance distance between Lightbox enclosures and ALPHAvisions FS signs. Make sure that you verify *all* clearances before you start drilling holes.
5. Mark locations for drill holes in the back panel for the lower stand-offs. These must be away from interior components of the enclosure, at least two inches away from the bottom edge of the enclosure and a minimum of three inches from side edges. If a single stand-off is being used, center it halfway across the sign.
6. Use the holes in the back panel as a template to drill matching holes in the supporting wall.
7. After all holes have been drilled, clean the back of the sign with an evaporating, non-corrosive solvent, such as isopropyl alcohol. This is to make sure that the pre-cut, double-sided adhesive tape will stick to the back panel of the enclosure. Peel off the paper backing on one side of the tape and place them around each drill hole. Remove the protective paper from the other side of the tape and place stand-off on the adhesive outer side of the tape. Apply firm, steady pressure for about ten seconds, to make sure that the stand-off will be held reliably by the adhesive during the rest of the installation procedure.
8. While one person holds the sign, the other can install fasteners.
9. Replace the front plexiglass panel and close hinged fasteners.
10. Connect power and verify normal operation of the Lightbox.