

Warnings

General Warnings

The Lowel e-studio is a professional lighting system. Read these instructions and lamp manufacturers' warnings before operating.

- Do not leave fixtures unattended. For stationary studio use.
- Not for household use. Use only for photo graphic lighting (video & film imaging).
- Do not exceed maximum rated wattage for unit.
- Use maximum 55 Watt lamps.
- Always unplug unit before relamping.
- Be sure lamp is securely seated in lamp socket.
- Do not use near standing water.
- Internal ballast produces high start-up voltage.
- When attaching to overhead pipes or grids, always use Safety Cables.
- Never bypass plug's ground pin.
- Do not interfere with unit's ventilation.
- Do not attempt to open unit, no user serviceable parts inside. See other side for fuse change information.

Fluorescent Warnings

- Avoid looking directly at the tubes for extended periods of time.
- Fluorescent tubes contain highly poisonous mercury.
- In the event of lamp breakage, avoid contact with broken pieces.
- Read lamp manufacturers information fully.

Models & Voltages

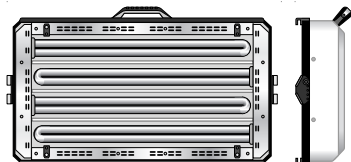
e-studio comes in 3 models housing from 2-6 T-55 fluorescent lamps.

e-studio 2 & 4 model fixtures are available in 120VAC or 240VAC versions. e-studio6 fixtures have auto-setting ballasts to work with 120 - 240VAC. All e-studio fixtures are non-dimmable.

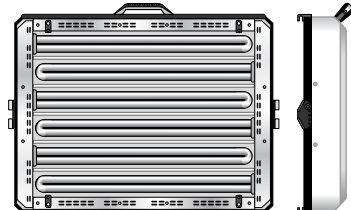
e-studio2



e-studio4



e-studio6



e-studio™ Mounting

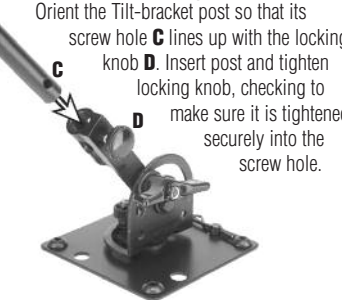
Mounting Plate

e-studio fixtures are sold in 2 mounting configurations, with hardware to use on a stand, or overhead on a lighting rail or pipe. Stand mounting models use the Stand Tilt-bracket; rail or pipe hanging use requires the Overhead Mount Tilt-bracket. Both come with the Mounting Plate already attached to the back of the fixture. Whether you are using the Stand Mount, or the Overhead Mount, familiarize yourself with the Mounting Plate before attaching the fixture to them. The Mounting Plate has the ability to tilt the fixture up & down, as well as rotate 180°.

If needed, it can be removed & rotated to mount 4 ways on the fixture, depending on user preference. With the fixture face down, remove the plate by first using pliers to remove the cotter pin, and then use an appropriate allen wrench to loosen & remove the 4 corner screws. Reposition the Mounting Plate, aligning it with the 4 screw holes and the cotter pin post. Attach & tighten the 4 screws securely, before attaching the cotter pin thru its post as shown.

Stand Mounting

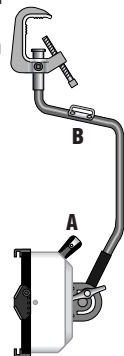
Orient the Tilt-bracket post so that its screw hole **C** lines up with the locking knob **D**. Insert post and tighten locking knob, checking to make sure it is tightened securely into the screw hole.



Overhead Mounting

With the fixture laying face down on a table, attach the Overhead Mount Tilt-bracket to the Mounting Plate on its back. Overhead Mounting models have a set screw replacing the locking knob on the Mounting Plate (see **D** in the image above). Similar to the Stand Mounting description above, orient the Tilt-bracket post so that its screw hole lines up with the set screw, and tighten the screw securely using an allen wrench. Attach the fixture to the rail, tightening the large c-clamp bolt securely with a wrench. Be sure to retighten with a wrench when positioned.

Attach one of the supplied Safety Cables between the handle on the fixture **A** and the safety cable plate on the bracket **B**, and another between **B** and the pipe or rail.

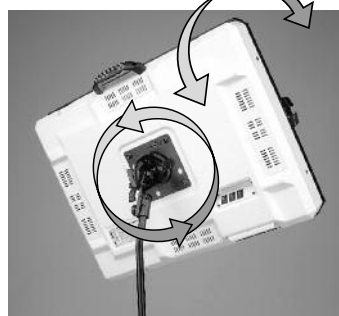


3 e-studio™ models

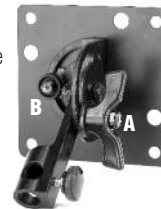


Tilting & Pointing

Whether in stand mount or hanging clamp configuration, the e-studio Tilt-bracket & Mounting Plate combination is designed to allow a complete range of fixture rotation and tilting.



In stand mounting use, it will also place the fixture's center of gravity squarely over the center of the stand for optimum balance. Loosen the large Mounting Plate locking knob **A** slightly to tilt the light on one axis (up & down) and the smaller locking knob **B** to rotate the light on the other axis (vertical vs. horizontal placement). Tighten locking knobs to secure fixture position.



*Note: the smaller knob **B** has constant tension locking and will hold its position without additional tightening. Tightening is only required for more permanent positioning.*

Controlling Light Intensity

Light intensity is controlled through the lamp switches on back of fixture.

The 120VAC models of e-studio2 & 4 have separate switches for each lamp, and their corresponding 240VAC models have lamps that are switched in pairs.

All e-studio6 fixtures have lamps switched in pairs. The e-studio6 lamps are switched from the center pair to the outer most pair.



Lamps & Lamp Changes

The e-studio fixtures use compact (55 watt) fluorescent lamps.

Osram Studioline® Lamps

(Manufacturer rated lamp life 8,000 hrs)
Designed for use in video & digital imaging for higher output.

Tungsten	CRI	°K
FLS-55TU Studioline 55w/3200	85	3200
Daylight	CRI	°K
FLS-55DA Studioline 55w/5600	85	5600

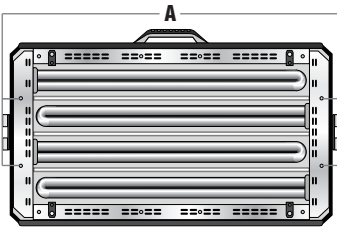
GE Cinema-Plus® Lamps

(Manufacturer rated lamp life 8,000 hrs)
Better lighting for film (still or motion picture) due to better color rendering with film emulsions. May require "minus green" filtration gel (1/8).

Tungsten	CRI	°K
FLC-55TU GEF55BX/CINPLUS32	90+	3200
Daylight	CRI	°K
FLC-55DA GEF55BX/CINPLUS55	90+	5500

Lamp Changes

To change a lamp, remove any front accessories, if attached. Remove the screws attaching the metal endplates A.



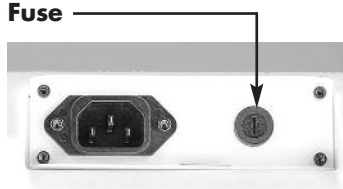
*Note that the light-tube sockets are installed on alternating ends of the fixture. To remove a tube, gently grasp it by its glass end and swing it slightly out from the fixture while pulling it carefully from the socket.

Note: Take care when lifting lamps away from the spring loaded retaining clips in the center of the tube end of the lamp.

Replace lamps in same way, opposite order. Be very careful as lamp-tubes are fragile and can easily shatter. Read lamp mfr's Warnings.

Fuse Change

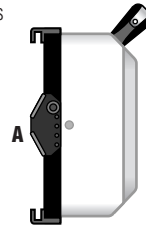
e-studio fixtures come with a user-replaceable mini fuse which is installed in a small holder on the same plate as the exterior AC power socket. Access the fuse by removing the cap with a small flathead screwdriver. Swap fuse if necessary and replace holder.



See the Technical Specs chart below to find the correct fuse rating for the e-studio model & voltage that you are using.

Light Control Accessories

The following Accessories can be attached to the front of the fixture, by opening the rotating lock A sliding the accessory into the top & bottom slots on the fixture face, and closing the rotating lock.



Only one accessory can be used at a time.

Intensifier

The mirrored Intensifier, when attached, can almost double the light output of the fixture. Assemble before attaching to light by placing 2 adjoining sides together at a right angle & tightening screws. When both halves are assembled, join them together and tighten screws. Slide assembled intensifier into front slot on fixture, close safety locks.

Note: Intensifier has grooved slot on front for attachment of Honeycomb Grid to trim light. Choose correct size of Honeycomb Grid.

Barndoors

For trimming spill of the light, slide Barndoor assembly into slot on fixture, and secure locks. Open doors and adjust for proper trimming of spill. Do not operate unit with Barndoors closed.

Egg Crates

for controlling spill. Slide the Egg Crate into the front accessory slot. Less control than Honeycomb Grid, with less output loss.

Honeycomb Grid

Each fixture has 2 options for using honeycomb grids to control the spill of the light, either placing the grid on the front of the fixture, or attaching it to the front of the Intensifier. It is not possible to use the "front of fixture" grid with the Intensifier. The grids are available in black with 20, 30, or 40 degree dispersion. Honeycomb Grids cause some loss of light output (see chart).

Note: e-studio fixtures have installed Gel Clips. For using colored or diffusion gels in front of the fixture. Attach pre-cut gel material to the 4 spring clips on the corners of the front reflector plate

Accessory	Location	Output Loss/Gain (approx)	e-studio6	e-studio4	e-studio2
			(Code)	(Code)	(Code)
Barndoor	Front of Fixture	N / A	FLS-620	FLS-420	FLS-220
Intensifier	Front of Fixture	+ 80%	FLS-622	FLS-422	FLS-222
Egg Crate	Front of Fixture	- 25%	FLS-624	FLS-424	FLS-224
Honeycomb Grid Black 40°	Front of Fixture	- 25%	FLS-634	FLS-434	FLS-234
Honeycomb Grid Black 30°	Front of Fixture	- 35%	FLS-633	FLS-433	FLS-233
Honeycomb Grid Black 20°	Front of Fixture	- 54%	FLS-632	FLS-432	FLS-232
Honeycomb Grid Black 40°	Front of Intensifier	- 30%	FLS-644	FLS-444	FLS-244
Honeycomb Grid Black 30°	Front of Intensifier	- 22%	FLS-643	FLS-443	FLS-243
Honeycomb Grid Black 20°	Front of Intensifier	- 46%	FLS-642	FLS-442	FLS-242

Technical Specs

Amperage: See charts, for models operating at 120VAC or 240 VAC 50/60 Hz.

Fuse Ratings/Classement des fusibles: 50/60Hz

Power Factor: >.99

120v e-studio2, 4

Model	Voltage	Continuous Power	Peak Current	Fuse Rating
e-studio2	120 VAC	0.8	1.3	3.15 A
e-studio4	120 VAC	1.7	2.5	5 A

230v e-studio2, 4

Model	Voltage	Continuous Power	Peak Current	Fuse Rating
e-studio2	230 VAC	0.4	0.6	2.5 A
e-studio4	230 VAC	0.8	1.3	3.15 A

120 - 230v e-studio 6 (when auto-setting to 120VAC or 230VAC, the below values apply)

Model	Voltage	Continuous Power	Peak Current	Fuse Rating
e-studio6	120 VAC	2.4	3.5	5 A
e-studio6	230 VAC	1.3	1.9	5 A

Repairs & Info

Repairs, problems, suggestions and requests for brochures/catalogs, instructions and parts lists can be handled through your Authorized Lowel Dealer/Distributor or directly through Lowel. Electrical repairs should be made only by Lowel or by a qualified electrician.

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