

BlueWave® FX-1250
LIGHT SHIELD
User Guide



About Dymax

Light-curable adhesives. Systems for light curing, fluid dispensing, and fluid packaging.

Dymax manufactures industrial adhesives, light-curable adhesives, epoxy resins, cyanoacrylates, and activator-cured adhesives. We also manufacture a complete line of manual fluid dispensing systems, automatic dispensing systems, and light-curing systems. Light-curing systems include LED light sources, spot, flood, and conveyor systems designed for compatibility and high performance with Dymax adhesives. Dymax adhesives and light-curing systems optimize the speed of automated assembly, allow for in-line inspection, and increase throughput. System designs enable stand-alone configuration or integration into your existing assembly line.

Please note that most dispensing and curing system applications are unique. Dymax does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application, and use is strictly limited to that contained in the Dymax standard Conditions of Sale. Dymax recommends that any intended application be evaluated and tested by the user to ensure that desired performance criteria are satisfied. Dymax is willing to assist users in their performance testing and evaluation. Data sheets are available for valve controllers or pressure pots upon request.

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Introduction

This guide describes how to set up, use, and maintain the LED light shield safely and efficiently.

Intended Audience

Dymax prepared this user guide for experienced process engineers, technicians, and manufacturing personnel. If you are new to high-intensity LED light sources and do not understand the instructions, contact Dymax Application Engineering for answers to your questions before using the equipment.

Where to Get Help

Dymax Customer Support and Application Engineering teams are available by phone in the United States, Monday through Friday, from 8:00 a.m. to 5:30 p.m. Eastern Standard Time. You can also email Dymax at info@dymax.com. Contact information for additional Dymax locations can be found on the back cover of this user guide.

Additional resources are available to ensure a trouble-free experience with our products:

- Detailed product information on www.dymax.com
- Dymax adhesive product data sheets (PDS) on our website
- Material safety data sheets (SDS) provided with shipments of Dymax adhesives

Safety



WARNING! *If you use this light shield without first reading and understanding the information in this user guide, injury can result from exposure to high-intensity light. To reduce the risk of injury, read and ensure you understand the information in this user guide before assembling and operating a Dymax LED flood system with light shield.*

General Safety Considerations

All users of Dymax equipment should read and understand this user guide before assembling and using the equipment.

To learn about the safe handling and use of light-curable formulations, obtain and read the SDS for each product. Dymax includes an SDS with each adhesive sold. In addition, SDS can be requested through our website.

Specific Safety Considerations

The Light Shield is designed to maximize operator safety and minimize exposure to light-curing energy. To use the unit safely, it must be set up and operated in accordance with the instructions in this user guide. Please also read and understand the safety considerations unique to LED-curing systems.

Safety Symbol Index



Refer to Manual



Gloves Required



Eye Protection Required



Warning!



Caution! Hot Surface



Warning! UV Light Hazard

Product Overview

Description of the FX-1250 Light Shield

The LED light shield is designed to prevent worker exposure to high-intensity light when used in conjunction with the BlueWave® FX-1250 LED Flood Light-Curing System. Together these components create a unique bench-top LED light-curing system that can be used to cure photosensitive adhesives, coatings, and inks applied to various size and shape parts.

NOTE: Users considering special or customized configurations should contact Dymax Application Engineering for recommendations and/or guidance to prevent equipment malfunction. Dymax cannot foresee every possible use of these light sources and reserves the right to invalidate warranties, expressed or implied, due to non-recommended installation or use of this equipment.

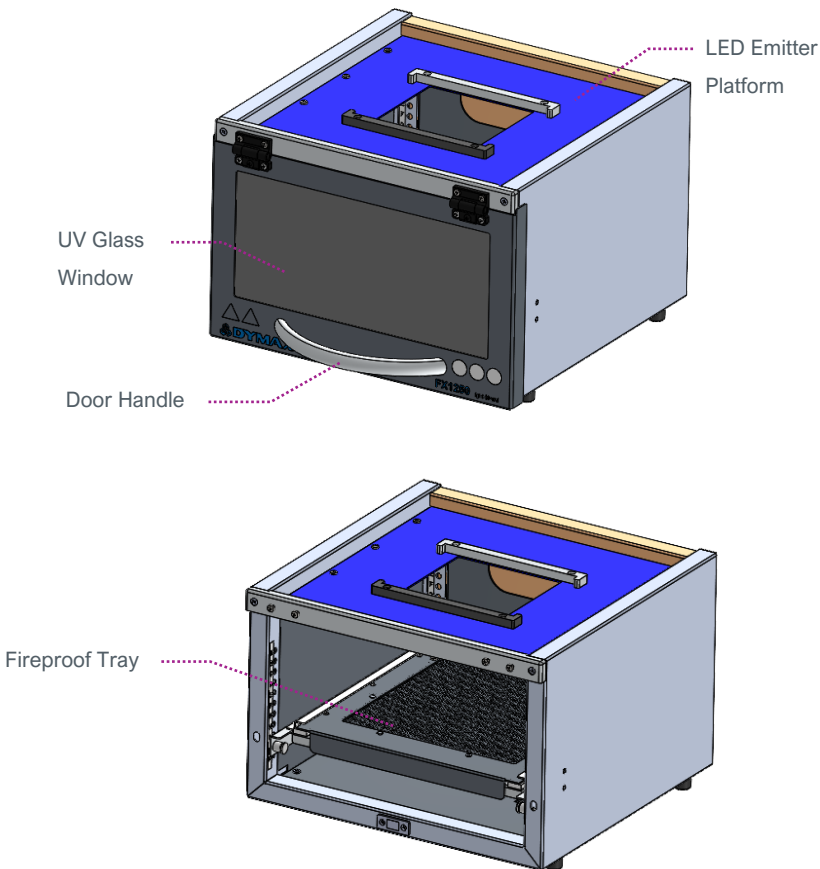
Features

Features	Benefits
Accommodates parts for curing up to 7.5" [19.05 cm] high	<ul style="list-style-type: none">• Can be used for a variety of part configurations
Work surface may be adjusted from [3.3 cm-15.9cm] to the LED platform	<ul style="list-style-type: none">• The light shield tray can be used with light-curing applications for a variety of size products
Door interlock	<ul style="list-style-type: none">• Extra safety precaution preventing the LED unit from being activated when the light shield door is open

System Component

FX-1250 LED Light Shield (Figure 1) — The light shield is the base of the flood system and is constructed so the operator can safely observe objects during the curing process. Its front-loading door swings up and down on dual supporting hinges and has an interlock switch that prevents the FX-1250 from activating when the light shield door is open. Inside the unit is a fireproof tray that slides along adjustable height rails and can be easily removed and replaced.

Figure 1.
Main Component of the Light Shield System



Assembly and Setup

Unpacking and Inspecting Your Shipment

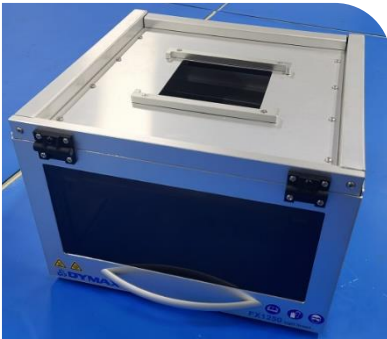
When your LED light shield arrives, inspect the box for damage and notify the shipper of box damage immediately.

Open each box and check for equipment damage. If parts are damaged, notify the shipper and submit a claim for the damaged parts. Contact Dymax so that new parts can be shipped to you immediately.

Check that the parts included in your order match those listed below. If parts are missing contact your local Dymax representative or Dymax Customer Support to solve the problem.

Parts Included

- Light Shield Box
- Connection Cable



System Interconnection

Place the light shield on the designated workbench. Remove all packaging used for securing the unit during shipping and save it in the event you need to repackage the unit for return.

Suggested Sequence System Connection

1. Put the FX1250 emitter on top of the light shield box.
2. Plug the 22 position connector of the connection cable to the controller PLC socket and the 4 position connector side to light shield socket as below image.



Light Shield Box



Controller PLC Socket

NOTE:

When the FX-1250 controller is on, and powering the emitters, the door of the light shield will act as a switch. The emitter will be on when the door is closed and off when the door is opened.

Warranty

From date of purchase, Dymax Corporation offers a one-year warranty against defects in material and workmanship on all system components with proof of purchase and purchase date. Unauthorized repair, modification, or improper use of equipment may void your warranty benefits. The use of aftermarket replacement parts not supplied or approved by Dymax Corporation, will void any effective warranties, and may result in damage to the equipment.

IMPORTANT NOTE: DYMAX CORPORATION RESERVES THE RIGHT TO INVALIDATE ANY WARRANTIES, EXPRESSED OR IMPLIED, DUE TO ANY REPAIRS PERFORMED OR ATTEMPTED ON DYMAX EQUIPMENT WITHOUT WRITTEN AUTHORIZATION FROM DYMAX. THOSE CORRECTIVE ACTIONS LISTED ABOVE ARE LIMITED TO THIS AUTHORIZATION.

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Please note that most curing system applications are unique. Dymax does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale published on our website. Dymax recommends that any intended application be evaluated and tested by the user to ensure that desired performance criteria are satisfied. Dymax is willing to assist users in their performance testing and evaluation by offering equipment trial rental and leasing programs to assist in such testing and evaluations.

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