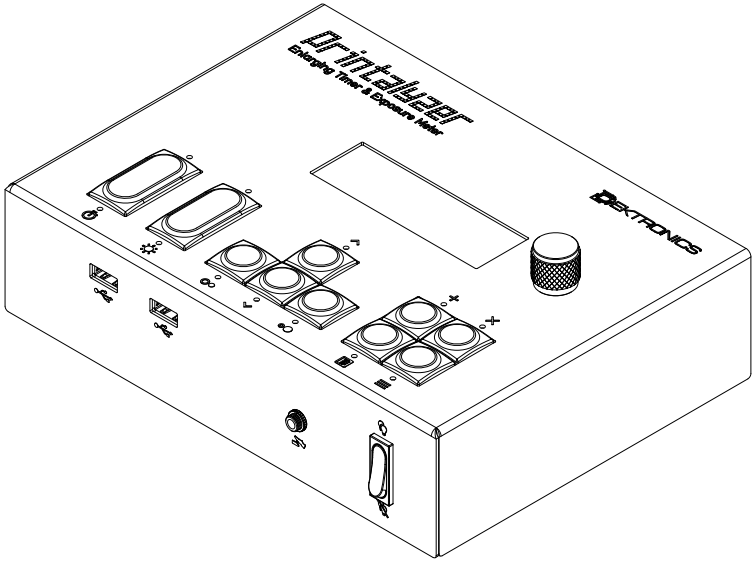
Printalyzer

Enlarging Timer & Exposure Meter



Quick Start Guide

DEKTRONICS

For the complete manual, specifications, desktop software, and firmware updates, please visit the product website:

https://www.dektronics.com/printalyzer-enlarging-timer

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Dektronics, Inc.
171 Main St #571
Los Altos, CA 94022-2912

Dear Customer,

Thank for for purchasing the Printalyzer Enlarging Timer.

At its core, this is a timer for darkroom enlargers. However, it is a lot more sophisticated than a simple clock. It is an "f-stop style" timer that adjusts time in stops of exposure, complete with support for test strips and dodging/burning. It also brings in sophisticated paper profiling and print metering capabilities.

It was designed to retain some of the features that made older timers good, such as a sturdy case and real clicky buttons, while also taking advantage of modern technology. It has fully upgradable firmware, a flexible interactive display, an expansion port for the control of non-traditional enlargers, and various peripheral ports.

Thanks,
Dektronics, Inc.

Intended Use:
The Printalyzer Enlarging Timer is intended for the control of photographic enlargers and darkroom safelighting. With the included peripherals, it is also intended to be used for the metering of print exposures and the characterization of printing paper.

It has been designed to comply with the following safety standards:
- EN 61010-1:2010/A1:2019
- IEC 61010-1:2010/AMD1:2016
- UL 61010-1:2012 R11.24
- CAN/CSA-C22.2 No 61010-1-12 R11.24

Symbols	Description
	The general warning symbol indicates the possibility of damaging the instrument or compromising the results of a method
	The electrical hazard symbol indicates the presence of electrical components that can be harmful to the operator if handled incorrectly.
	Risk of fire

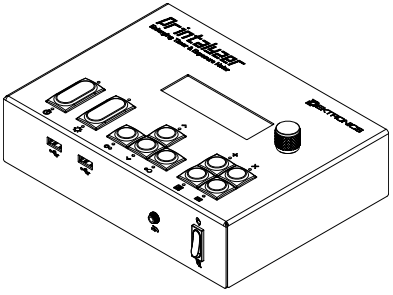
Safety Warnings:

	WARNING: Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage to the product or other property. After reading this document carefully, keep it in a safe place for later reference.
	WARNING: Ensure ground is reliably connected before plugging in the instruments power cord into the power source (receptacle). *Grounding is required to prevent electric shock. If the power source is not grounded, qualified personnel must first install a reliable safety ground.*
	CAUTION: Risk of electric shock. Do not open. No user serviceable parts.
	WARNING: This device should only be used for the control of photographic enlargers and safelighting. Do not overload output sockets. Outlets have a combined rated load of 4.5A max.
	WARNING: Only use your product with the power cord provided by the manufacturer. *Contact Dektronics Inc. for replacement should your power cord become missing or damaged. Use of a mains supply cord with inadequate rating may result in risk of fire.*
	WARNING: For continued protection against risk of fire, replace ONLY with a fuse of the specified type and rating. *Fuse: Rated, F5AH250V, 5x20mm*
	WARNING: Power cord is used as the main disconnection device. To de-energize equipment, disconnect the power cord.
	CAUTION: Protection may be impaired if used in a manner not specified by the manufacturer
	Note: All Countries: Install product in accordance with local and National Electrical Codes

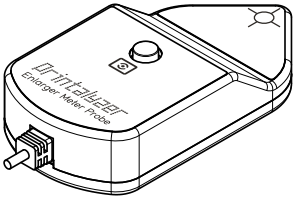
Technical Specifications:

Voltage	100-240V ~
Frequency	50/60Hz
Current	5A Max
Mains Supply Fluctuations	+/- 10%
Fuse Rating	250V, 5A, 5x20mm, High Breaking Capacity F5AH250V
Over Voltage Category	OVC II
Pollution Degree	2
Altitude	Up to 2000m
Operating Temp.	5°C to 40°C (41°F to 104°F)
Storage Temp.	-5°C to 85°C (23°F to 185°F)
Relative Humidity	5-95% non-condensing
Indoor Use	Product is intended for indoor use only.
Wet Locations	Product is not intended for wet locations
Ventilation	Allow min of 1” from back of unit.
Socket-Outlet Loading	Max combined load of 4.5A total
Positioning for disconnection	Main AC inlet or plug is considered the main AC Disconnect. Always position the device so that the inlet or plug is accessible.

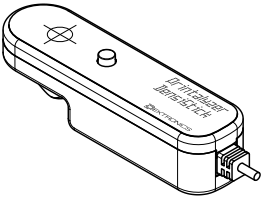
Major Components



Printalyzer Enlarging Timer



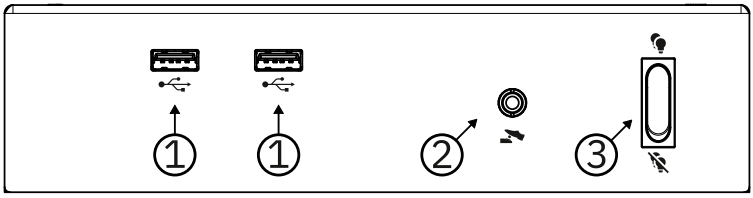
Printalyzer Meter Probe



Printalyzer DensiStick

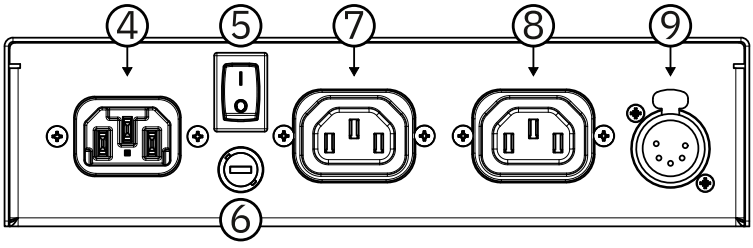
Printalyzer Enlarging Timer	The main device
Printalyzer Meter Probe	USB attached baseboard light meter for the metering of print exposures
Printalyzer DensiStick	USB attached reflection densitometer for measuring the density of printing paper

Front Device Ports



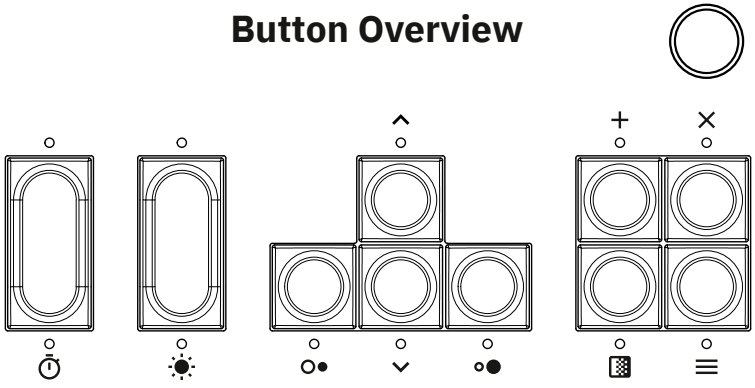
①	**USB Host port** This port is for connecting USB peripherals, such as the included Printalyzer Meter Probe, Printalyzer DensiStick, and other supported devices.
②	**Footswitch port** This port is for connecting the included footswitch for hands-free exposure control.
③	**Blackout switch** Device and safelight illumination behaves normally. Device and safelight illumination is temporarily disabled for the safe handling of certain photographic materials.

Rear Device Ports



④	**Power input port** Attach the power cord here.
⑤	**Power switch** Toggle to turn the device on and off
⑥	**Fuse** Protects the device against electrical faults. Only replace with the proper fuse type, as specified in the safety warning section.
⑦	**Enlarger power port** Provides power to a photographic enlarger. Use an IEC 320 C14 adapter or cord of suitable rating for your equipment.
⑧	**Safelight power port** Provides power to darkroom safelighting. Use an IEC 320 C14 adapter or cord of suitable rating for your equipment.
⑨	**DMX512-compatible expansion port** Provides control signals for non-traditional enlargers and safelighting

Button Overview



	Start exposure
	Focus mode
	Decrease contrast; navigate left
	Increase contrast; navigate right
	Increase exposure time; navigate up
	Decrease exposure time; navigate down
	Add burn/dodge adjustment
	Enter test strip mode
	Cancel
	Menu
	Fine adjustment knob; also clickable

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Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Complies with CAN ICES-003(B) / NMB-003(B)

Hereby, Dektronics, Inc, declares that the Printalyzer Enlarging Timer DPD-500 has been tested and is fully compliant with the EU EMC Directive 2014/30/EU.

Hereby, Dektronics, Inc, declares that the Printalyzer Enlarging Timer DPD-500 has been tested and is fully compliant with the UK EMC Regulations (2016).

For the complete declaration of conformity, please refer to the product website.

Instructions for disposal:
Please dispose of Waste Electrical and Electronic Equipment (WEEE) at designated collection points for the recycling of such equipment.

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At Dektronics, we're strong believers in open-source hardware and software. As such, whenever possible, you'll be able to follow the technical side of our projects here:

https://github.com/dektronics

P/N: DPD-500
Assembled in USA