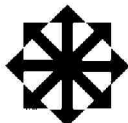


GraLab

Darkroom Timers



DIMCO-GRAY

An Employee-Owned Corporation

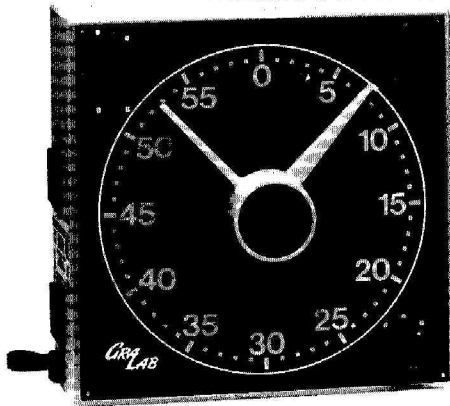
GraLab Instruments Division

Picture perfect timers for the art and science of photography

GraLab photo timers are some of the world's best-known, most dependable pieces of photographic hardware. You'll find them in industrial and commercial photo labs...graphic arts and printing companies...professional and serious hobbyist darkrooms... anywhere precision and quality are paramount.

As you'll see in these pages, there are six different models, offering everything from simple, no-frills time-keeping to complex, multi-function, programmable control for all types of photo equipment. All models are designed to switch most inductive loads. Contact Dimco-Gray for details. Whatever you need in time, you'll find it here.

New and Improved Model 300 Darkroom Timer



Model 300 features:

- Plastic boot over the power switch prevents corrosion from chemicals or water.
- Contemporary, easy-to-read numerals on a large 6 1/2" diameter face. Numerals, dial and hands are luminous.
- Setting knob for fast fingertip control.
- Precision accuracy assured by electric synchronous motor.
- Buzzer automatically signals end of developing period...can be set for desired volume.

Shows minutes and seconds in total darkness

For years, the GraLab Model 300 has been the leading darkroom timer. Now we've improved the 300 to make it an even better investment.

Minutes and seconds can easily be read across the room in total darkness, making the 300 ideal for darkroom use, especially the precise timing required by color processing. The 60-minute time range can be set in minutes for developing and seconds for enlarger control. Two hands permit quick setting by seconds, minutes or combinations of seconds and minutes. An exclusive dual-cam mechanism provides extreme accuracy for long time intervals: $\pm .015\%$ at maximum dial setting. Two separate outlet receptacles control an enlarger or printer and safelight by a combination time/focus switch. Each outlet has a 600 watts rated capacity for operating most darkroom equipment. The Model 300 can be used with a relay for heavier loads.

The case is made from a blend of hybrid plastics, and measures 7 1/2" x 7 1/2" x 2 1/2". It is exceptionally strong, withstands high impact, resists chemicals and moisture and is electrically non-conductive. The case has a recessed handle in the back and key holes for wall mounting.

- Sturdy polycarbonate/PET case with rubber base pads resists impact and photographic chemicals and moisture.
- Gray, textured, non-slip finish has contemporary look.
- Keyholes in back make wall mounting easy.
- Three-wire grounded cord.

Power rating of AC outlets:

@120 VAC; Max Lamp Load 600W, Max Resistive Load 1200W, Max Motor Load 1/3 HP, UL and CSA Listed.

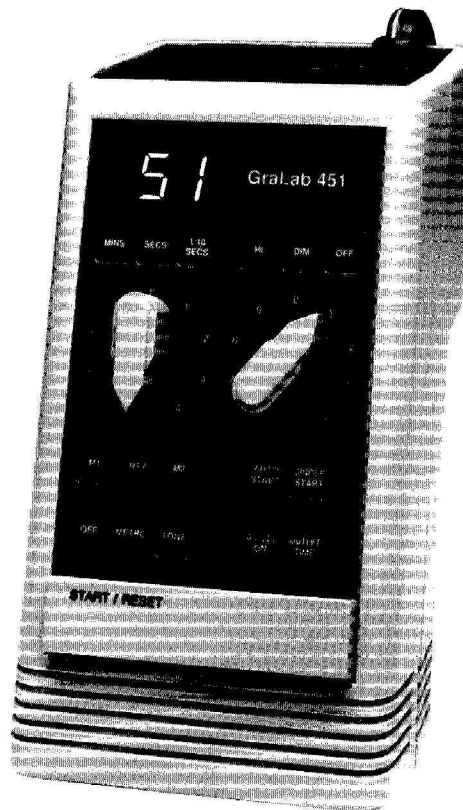
Model 560 Timer Footswitch

Made for electronic timers. This footswitch combines operating efficiency with a compact and attractive appearance. It has a heavy tread on the actuating treadle and a skid-proof base for ease of use. And it requires only a light pressure, so it can be operated for long periods without causing fatigue. The formed steel case is finished in black. An 8-foot cord with plug is included. Electrical rating is 7AMP, 125-250 VAC.

Note: Technical bulletins describing input and output connections are available from Dimco-Gray.



Model 451 Electronic Timer/Intervalometer



A two memory switching timer that's versatile, economical and easy to use

Variety of uses

The versatile simplicity of this solid state digital timer makes it a sensible choice for a wide variety of uses. In the factory, the lab, or the photographer's studio (controlling, for example, time-lapse photography or darkroom equipment), it delivers reliable, repeatable accuracy.

Timer and Intervalometer functions

The 451 has two independent, separately programmable memories controlled with a membrane keypad. One controls "on-time", the other "off-time". Use one memory alone for a single cycle switching timer. Use both in tandem for a continuously recycling intervalometer.

Adjustable, 2-digit LED display

A highly visible 2-digit display along with backlit keys make timesetting easy and reduces the chances for mistakes. It can run at two brightness settings or switched off completely. Left on, it provides a running countdown of whichever memory is cycling at a given moment.

Automatic reset

Once a time is set in either the "on-time" or "off-time" memory, it will remain until

another time is substituted or until the unit is turned off. The same cycle or interval pattern can run over and over again, no manual resetting required.

Minutes, seconds, and tenths

The 451 offers a choice of three time ranges: 1 to 99 in minutes, 1 to 99 in seconds, and .1 to 9.9 in tenths of a second. Decimal point floats automatically for easy reading.

Three audio signal choices

Membrane keys will activate either a one second end of cycle tone, a metronome which beeps once every second throughout the cycle...or no audio at all.

Parallel AC and logic level output

The 451 provides switched AC power through an AC outlet and a logic level compatible signal through an output jack. The "On/Off" state of the output jack parallels that of the AC outlet.

Footswitch jack

The footswitch jack (compatible with the GraLab Model 560 Accessory Footswitch) is an extension of the Start/Reset push bar.

Compact, solid

The timer measures 3 1/2" x 4" x 8", and it's made tough for years of service. Non-skid case can be used on table surface or hung on the wall.

Accuracy

Better than + .01% @ 1 second relative to power frequency. (20°C ambient, no load)

Repeatability

+ .005% @ 1 second relative to power frequency. (20°C ambient, no load)

Temperature range

0°C to 55°C

Humidity

0 to 95% non-condensing

Voltages

Input voltage 100 to 130 VAC, 50/60 Hz (U.S. and Canada), 210 to 250 VAC, 50/60 Hz for use in other countries.

Power rating of AC outlets

@ 120 VAC: Max Lamp Load 600W, Max Resistive Load 1200W, Max Motor Load 1/3 HP, UL and CSA Listed.

