

Value

The TD-20/20 Luminometer not only offers great sensitivity and dynamic range, it is also the most affordable luminometer of its kind. It is a superior luminometer that fits in the tightest budget. Additionally, a free DLR Kit* is included with each TD-20/20 Luminometer purchase.



The TD-20/20 Luminometer
is DLR-Ready.

Specifications

Sample Adaptors	Holds 35 mm culture dish or 28 mm scintillation vial; holders for 8 x 50 mm test tube, 12 x 50 mm test tube, 12 x 75 mm test tube, or 1.5 mL microfuge tube are available.
Range	5+ logs, 7+ logs with range-extending filter.
Sensitivity	10 ⁻¹⁹ moles luciferase.
Integration	User-set delay period: 0–100 seconds; user-set integration time: 4–6000 seconds.
Data Output	100% ASCII format through a 9-pin RS-232 serial cable at 9600 baud.
Kinetics Output	5 times per second for the duration of the measurement.
Detector	10 stage photomultiplier tube. Range: 300–650 nm.
Power	External power supply, 100–240 VAC; 50/60 Hz; max. 30 W.
Dimensions	23.5 cm W x 28 cm D x 21 cm H (9.25" W x 11" D x 8.25" H).
Weight	3.6 kg (7.9 lbs).
Operating Temperature	5–40 °C; 41–104 °F.
Materials	UL-approved polyurethane. Sheet metal back and base.
Warranty	One year warranty.
Approvals	UL, CUL, and CE.

See turnerbiosystems.com for most current information.

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*Dual Luciferase® Reporter Assay System is a registered trademark of Promega Corporation.

TD-20/20 Single-Tube Luminometer



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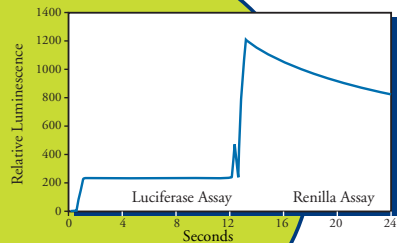


TD-20/20 Single-Tube Luminometer

The TD-20/20 Luminometer was designed by Turner BioSystems and Promega to run Promega's genetic reporter and ATP assays as well as other luminescence assays used in research laboratories. The user interface, sample compartment and injectors are all optimized for easy, sensitive, and accurate dual luciferase and ATP assays. It is accurate over a wide range, extremely precise, and easy to use. Its broad dynamic range, coupled with a wide variety of optional accessories enable the TD-20/20 Luminometer to perform assays requiring temperature control or measurements taken at different emission wavelengths. The TD-20/20 Luminometer is also the most economically priced instrument of its kind on the market.

Performance

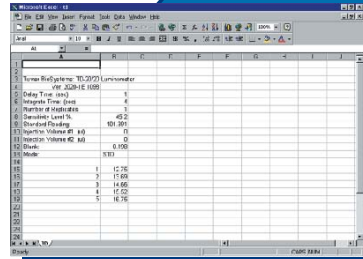
The TD-20/20 Luminometer combines great sensitivity with a wide dynamic range to enable reading both very dim and very bright samples. The unique optical design positions the detector directly beneath the sample compartment, so there is no minimum volume requirement for sample analysis. An optional range extender simplifies reading samples with different levels of light emission. Performance of temperature-sensitive assays can be further enhanced using the TD-20/20 Luminometer's temperature control accessory.



Firefly and Renilla Luciferase Luminescence Measured on the TD-20/20 Luminometer Using Dual Luciferase Reporter Assay

Easy to Use

The TD-20/20 Luminometer is straightforward and easy to operate. Controls and switches are accessible and uncomplicated. The intuitive interface guides the user through the streamlined setup routine and running assays. The instrument's convenience is enhanced by its ability to export data to Excel or print data directly in real time.



Support

The TD-20/20 Single-Tube Luminometer is distributed and supported internationally by both Turner BioSystems and Promega Corporation, two companies well known for excellent customer support.

Flexible and Extensible

Originally designed to run Promega's genetic reporter assays, the TD-20/20 Luminometer has been accessorized to perform a wide range of applications. It can accommodate an extensive variety of sample holders, and can run both glow and flash assays. The luminometer's inherent flexibility is enhanced by a suite of accessories for stabilizing sample temperature, detecting luminescence outside the sample compartment, manually injecting samples, and other functions.

Temperature Control Accessory Controls the temperature of the reaction while performing kinetic assays. It connects to an external water bath and is easily added to and removed from the luminometer.

LightSwitch™ Module Enables detection of dual color luminescence in assays such as Bioluminescent Resonance Energy Transfer (BRET). Standard wavelengths: Filter A: 320–480 nm, Filter B: >520 nm.

LightCheck Verifies whether or not the luminometer is functioning as expected.

Auto Injectors Designed for routine laboratory work — especially dual luciferase and ATP assays — these systems precisely and accurately inject reagents in 1 µL increments from 50 to 250 µL. Injection timing and volume are controlled via the luminometer keypad.

Auto injectors are factory-installed, and are available in three configurations:

- Dual auto injectors
- Single auto injector
- No auto injectors

An economically priced manual injector is also available for laboratories on a tight budget.

Test Tubes In addition to the test tubes listed below, the TD-20/20 Luminometer readily adapts to reading beads, strips, and tissue samples.

- 1.5 mL microfuge tubes
- 8 x 50 mm test tubes
- 12 x 50 mm test tubes
- 12 x 75 mm test tubes

Range-extending Filter This neutral density filter reduces the amount of light sensed by the photomultiplier tube by two orders of magnitude.

Thermal Serial Printer Prints the luminometer data in real time.



The TD-20/20 Luminometer sample holder is used with a 35 mm culture dish or it can be flipped over and used with test tube inserts or with 28 mm scintillation vials!