

HUMAN HEALTH

ENVIRONMENTAL HEALTH



THE BEST IN CLASS  
**JUST GOT  
BETTER**



**VICTOR™ X Series Multilabel Plate Readers**

  
**PerkinElmer®**  
*For the Better*

## VICTOR X



## RELIABILITY AND VERSATILITY TO PUT YOUR RESEARCH ON TOP

The VICTOR Multilabel Plate Reader was one of the world's first multilabel readers on the market. It has been known for ease of use and reliability for over 10 years.

Now the most trusted name in detection is better than ever before: introducing the next generation VICTOR X Multilabel Plate Reader platform. With powerful software and enhanced performance, VICTOR X gives you the power of a best-in-class reader that works within your budget. Get your research going now – with the dependable, sensitive and easy-to-use VICTOR X, preferred by more researchers than any other plate reader of its kind.

### Applications:

- **Cellular Assays:** including GPCR and kinase
- **Binding Assays:** including DELFIA® and LANCE® TRF assays
- **Immunoassays**
- **Kinetic Assays**
- **Gene Expression**
- **Toxicology**
- **Drug Screening**
- **Food Monitoring**

### Detection Methods:

- **Fluorescence Intensity (340-850\* nm)**
  - Dual ratio measurements
  - Top and bottom fluorescence
- **Fluorescence Polarization (400-850\* nm)**
- **Time Resolved Fluorescence (TRF)**
  - Dual window TRF
  - Dual emission measurements
- **Luminescence**
  - Glow, flash and dual luminescence
- **Visible Absorbance (340-1000 nm)**
- **UV Absorbance (260 nm/280 nm)**

\*When using red-sensitive PMT.

## ENHANCED PERFORMANCE. DELIVERED.

The five models in the VICTOR X Series all feature powerful software with a simplified user interface and all the ease and dependability you've come to expect from the VICTOR brand. In fact, the affordable VICTOR X is easier to use than other readers, which means you can focus precious time and resources on furthering your research.

### Modernized Software

Featuring WorkOut 2.5, our most powerful data analysis software package!

- Renewed "Start Wizard" makes it easy to create new protocols
- Application-based example protocols enable off-the-shelf use
- Intuitive live display with real-time kinetic curve
- Improved kinetic support to enhance cellular and enzyme assays

### System Enhancements

- Temperature control expanded to +50 °C for better control of assay conditions
- New excitation filter wheel and expanded absorbance wavelength (up to 1000 nm) enable versatile use of filters and broader spectrum analysis for greater assay flexibility
- Improved chassis design facilitates maintenance
- New dispenser unit for enhanced functionality in kinetic assays

### Loaded with Standard Features

- Windows®-compatible VICTOR 2030 Workstation software
- Shaker with adjustable speed, radius and pattern to ensure uniformity of sample
- Area scanning up to 100 points/well to ensure accuracy of measurements
- Dual label measurements to enable multiplexing
- WorkOut 2.5 standard in VICTOR X3, X4 and X5; temperature control standard in all models



## A VICTOR X FOR EVERY NEED.

VICTOR X puts the performance you're looking for within reach. So you can get your research started today, and meet the increasing demands of your lab tomorrow. Choose the model that's right for you:

### A Wide Range of Options

- **Dispenser module:** enabling fast kinetic measurements. Select up to four high-quality syringes for optimized kinetics, cell-based and enzyme assays.
- **Stacker assembly:** for additional capacity as your needs evolve. Field-upgradeable 20- or 40-plate stacker units accept SBS-compatible microplates up to 1536 wells, including clear, opaque and filterplates.
- **Bar-code reader:** for walkaway automation and accurate sample tracking.
- **Red-sensitive PMT:** for improved near infrared (NIR) and time-resolved fluorescence assays, including LANCE and TR-FRET.
- **Optional laptop:** to maximize bench space.
- **Enhanced security option:** for 21 CFR Part 11 compliant operation.
- **Custom optics and filters:** for complete assay customization.

#### VICTOR X Light:

- Luminescence: flash and glow

#### VICTOR X2:

- Luminescence: flash and glow
- Fluorescence Intensity: top and bottom reading

#### VICTOR X3:

- Luminescence: flash and glow
- Fluorescence Intensity: top and bottom reading
- Absorbance (UV and visible)

#### VICTOR X4:

- Luminescence: flash and glow
- Fluorescence Intensity: top and bottom reading
- Absorbance (UV and visible)
- Time-resolved Fluorescence

#### VICTOR X5:

- Luminescence: flash and glow
- Fluorescence Intensity: top and bottom reading
- Absorbance (UV and visible)
- Time-resolved Fluorescence
- Fluorescence Polarization

## VICTOR X is the best-in-class multilabel plate reader for research applications

Your sales representative will help you to choose the VICTOR X that's right for you. To contact your local sales office, visit [www.perkinelmer.com/ContactUs](http://www.perkinelmer.com/ContactUs).

Visit our Web site at [www.perkinelmer.com/platereaders](http://www.perkinelmer.com/platereaders) to find application and reference information.

### Physical Specifications

#### Dimensions

Height:	354 mm (13.9"); with stackers 510 mm (20")
Depth:	595 mm (23.4")
Width:	493 mm (19.4")
Weight:	46 kg (101.4 lbs); with stackers 52 kg (114.6 lbs)

#### Power Requirements

Power consumption:	400 VA
Main voltage:	110-120 V/220-240 V, 50/60 Hz
PC configurations:	Minimum requirements for the PC is a Windows® XP/2000-compatible Pentium® computer, minimum 256 MB memory, equipped with CD-ROM, SuperVGA display with minimum 800 x 600 resolution and 256 colors

### Performance Specifications

Luminescence Detection (96-well plate)	Lower limit of detection (LLD):	Total flux of 20,000 photons/s (standard PMT) 100,000 photons/s (red-sensitive PMT)
	ALP:	1 amol/well with AMPPD substrate
	Flash luminescence:	80 amol/well ATP
	Glow luminescence:	0.9 pg/well using britelite™
Fluorescence Polarization (384-well black plate)	Fluorescein:	1 nM, 40 µL
	Standard deviation:	<5 mP
Absorbance Detection (96-well plate)	Measuring range @ 405 nm:	0-4 A
	Accuracy @ 405 nm:	<2% (or 0.01 A) within 0-2 A
	Precision @ 405 nm:	<0.5% (or 0.01 A) within 0-2 A
TR-Fluorescence Detection (200 µL, 96-well plate)	Europium:	<6 amol/well, 30 fM
	Linearity:	>5 decades
	Crosstalk:	<0.01%
	Terbium:	<5 amol/well, 25 fM
	Samarium:	<50 amol/well, 250 fM
	Dysprosium:	<150 amol/well, 750 fM
Fluorescence Detection (200 µL, 96-well black plate)	Fluorescein:	<2 fmol/well, 10 pM
	Linearity:	>5 decades
	Crosstalk:	<0.01%
	Umbelliferone:	<200 fmol/well, 1 nM
	Rhodamine:	<100 fmol/well, 0.5 nM

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Printed in USA