

TopCount Scintillation and Luminescence Counter



Description

TopCount NXT is a benchtop microplate scintillation and luminescence counter, specially designed and configured for direct scintillation and luminescence counting of samples contained in microplates

Isotopes

The TopCount will count 3H, 14C, 125I, 35S, 45Ca, 51Cr, 33P and 32P

Computer

Self-contained computer controlled in either NT or XP Windows[®] operating system

Detectors

The TopCount is available in 2, 6 or 12 detector format – 96 well microplate size. Luminescence measurements performed on 2 detectors as standard and up to 12 detector as an option

Automatic Microplate Stacker

Stackers are in 20 or 40 plate size for automatic use

Cooling

Cooling for the detector chamber is provided by either a standalone chiller or a trolley mounted chiller.

Quench Indicator

TopCount comes supplied with tSIS quench indicator. Dual label counting is available as two regions of interest may be selected

Automatic bar code label reader provides positive sample identification

Sample plate bar codes may contain up to eight alphanumeric characters

Data Analysis

Data is delivered in Counts, CPM, DPM. Data may be stored in either CSV or ASCII format for reanalysis and reprinting. All data is saved and may be reprocessed and archived

User-selectable repeat counting of wells, plates and assays

Real time, microplate format display

Display of sample counts, CPM, tSIS, or 2 Sigma error, and sample map with sample type. The microplate display is adjustable to show full or partial plates in 96 and 384well formats.

User selectable printer output

Provides columnar or micro- plate formatted printouts of raw data or processed sample results. Printouts may be obtained automatically for the current assay, or may be generated at any time for any data set stored in the built-in database.

Reference Manual

Help feature by provides detailed references for all instrument functions and applications.

Nuclide library

contains factory preset and user customized nuclide parameter settings for immediate recall and use in user assays.

Automatic subtraction

of assay-specific background data. Individual backgrounds may be stored for any plate type, cocktail type, or nuclide set-up conditions

IPA (Instrument Performance Assessment) software allows the operator to verify the proper function of all important operating parameters of the TopCount NXT. Detector alignment, photomultiplier tube performance, and background are among the parameters checked to ensure accurate results.

Inkjet printer with IBM-compatible parallel interface.

17 inch SVGA Colour Monitor

PHYSICAL DATA

Dimensions:

Height: 20 inch (50.8cm) Width:
37 inch (94.0 cm) Depth: 25 inch (63.5 cm)

Weight:

200 lbs (91 kg) without AES and cart
280 lbs (127 kg) with AES and without cart

Electrical requirements:

117 Vac 10% 50/60 Hz 4.0 Amp protection
220 Vac 15% 50/60 Hz 3.0 Amp protection
Power consumption: 350 VA maximum,
instrument only

Isothermal cooling electrical requirements:

117 Vac 10% 50/60 Hz 8.0 Amp protection
220 Vac 15% 50/60 Hz 5.0 Amp protection
Power consumption: 940 VA maximum

Environmental requirements:

Operating ambient temperature 15 to 35 °C (59 to 90 °F) Operating relative humidity 30% to 85%

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