



For the - calibration and analysis of x-ray generator systems

Dynalyzer IV - Now with greatly enhanced computer connectivity!





Dynalyzer IV High Voltage Unit

Accu-Dyn+ Display System

MEASURE -

- kVp (anode, cathode, and anode + cathode)
- mA and mAs Anode current

- Filament current
- Exposure time

Used for: X-ray machine manufacturing, troubleshooting, annual calibration, installation, acceptance testing

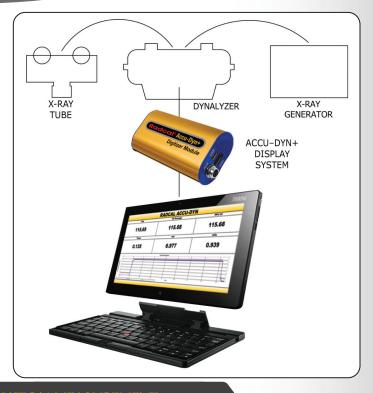
DYNALYZER IV HIGH VOLTAGE UNIT -

The Dynalyzer IV is one of the most accurate tools for the calibration and analysis of x-ray generator systems.

The Dynalyzer IV which is inserted in the high-voltage cables between the x-ray generator and the x-ray tube, provides ground-referenced analog and digital signals that are proportional to kV, anode current (mA) and filament current. The analog version of these signals can be routed to external test equipment such as an oscilloscope or digital voltmeter. The digital version of the anode-to-cathode voltage and the anode current can be connected to the Dynalyzer Accu-Dyn+ Display System and its associated Accu-Gold Excel software. Unlike non-invasive instruments, the Dynalyzer provides the user with direct kV measurements unaffected by tube target material or filtration.

DYNALYZER ACCU-DYN+ DISPLAY SYSTEM -

The Accu-Dyn+ display system provides the means to display, analyze and report values measured by the Dynalyzer that support calibration, compliance testing and troubleshooting. Displayed values include: kV, kVp, PPV, anode current, number of pulses, and pulse duration. In addition, waveforms of kV and anode current can be displayed and analyzed, providing a deeper understanding of the operation of the system.



DYNALYZER WITH ACCU-DYN+DISPLAY SYSTEM KEY FEATURES AND BENEFITS:

KEY FEATURES

BENEFITS

Automatic Triggering

Generator parameters are measured in real-time with "Auto Trigger" mode

Create Custom Reports

Accu-Gold Excel allows users to create automated reports tailored to their needs

Print Reports

The Windows Display can print to any Windows supported printer

Advanced Calculations

PPV, kVp and average kV are automatically calculated

Connect to

tube anode.

Report Archive

Reports are stored in Excel format and can be recalled as needed

DYNALYZER IV HIGH VOLTAGE UNIT

Connect to

tube cathode.

ANODE

Connect to transformer anode.

HIGH VOLTAGE TERMINALS

X-ray cable receptacles (3-conductor) conform to Federal Standard.

Indicates internal pressure of the

This 8-pin connector provides 4 analog

signals corresponding to the analog signals at the BNC connectors for use

with the Dynalyzer Digital Display.

Rad/Fluoro switch changes

the anode-current scale factor.

insulating sulphur hexafluoride gas (SF6).

This BNC connector, marked KV-A, supplies a sample of the anode voltage.

This BNC connector, marked KV-A+C, supplies a sample of the anode-to-cathode voltage.

This BNC connector, marked KV-C supplies a sample of the cathode voltage.

The BNC connector supplies an analog voltage corresponding to the filament current. [Scale factor = 0.1 volt (p-p) per ampere (p-p).]

CATHODE

Connect to

transformer

cathode.

This BNC connector provides an analog voltage proportional to the anode current. The scale factor is either 1 mV/mA or 20 mV/mA depending on the Rad/Fluoro switch.

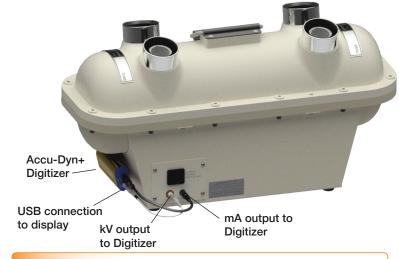
OPTIONS & ACCESSORIES
Refer to Radcal price list for other
options and accessories

Dynalyzer IV High Voltage Unit comes standard for 3 conductor applications. Includes two 12 foot coaxial cables and dummy plugs. (4 conductor applications Dynalyzer available on special request)

Heavy duty shipping container (M-96115) for Dynalyzer IV (order separately)

High voltage cable (M-53605), two 5-foot CA-1 cables recommended.

DYNALYZER IV REAR VIEW WITH DIGITIZER



TECHNICAL DATA: DYNALYZER IV HIGH VOLTAGE UNIT

 kV accuracy
 ± 1%
 10 kV to 150 kV

 Anode Current
 ± 1%
 1 mA to 1 A, DC to 4 kHz

 Filament Current
 ± 5%
 DC to 20 kHz

All specifications subject to change.

TECHNICAL DATA: ACCU-DYN+ DISPLAY SYSTEM

 kV Accuracy*
 ± 1%
 10 - 150 kV, DC to 4.5 kHz

 Anode Current
 ± 0.2%
 0.1 mA to 1 A, DC to 2.3 kHz

 Exposure Time
 ± 0.5 msec

* Waveforms and calculated kV values reflect a bandwidth of 4.5 kHz.