High-Frequency Surgical Exposure Test Equipment

Configurable high-frequency exposure test system for evaluating active implantable medical devices and associated interfaces under defined test conditions.

Designed for test programs where the generator mode, exposure waveform, DUT electrical interface and test network must be specified from the applicable standard clause and laboratory procedure.

SYSTEM APPLICATION

The KP-H500 supports high-frequency surgical exposure testing of medical electronic devices where controlled RF/HF exposure must be applied through a defined coupling or test network. The final system configuration is selected to match the applicable standard, DUT type and specified test circuit.

- Pacemakers and CRT-P devices
- ICD and CRT-D devices
- Cochlear implants and related systems
- Other active implantable medical devices (AIMDs)
- DUT input, output or electrode interfaces
- R&D, design verification and laboratory evaluation

FUNCTIONAL CONFIGURATION

HF exposure source	Signal generator configuration selected for the required surgical exposure condition.
Exposure mode	Continuous, burst or other specified exposure modes, subject to the required method.
Test network	Network and coupling arrangement selected according to the applicable clause and DUT interface.
DUT connection	Interface provisions defined for the intended device, lead, electrode or input/output configuration.
Control and monitoring	Manual or PC-assisted control and required monitoring / verification points confirmed during configuration.
Documentation	System configuration, test network information and calibration scope can be specified in the quotation package.

TYPICAL TEST-CHAIN ARCHITECTURE

HF signal generator	**Test network**	**DUT interface**	**Monitoring**
Configured output mode	Clause-specific network	Implant / lead connection	Exposure verification

The test network and DUT connection arrangement are application-specific. The configuration should be frozen only after the required standard clause, device interface and acceptance procedure are confirmed.

TECHNICAL NOTE | This datasheet defines the equipment scope. It does not replace the applicable standard, test plan or laboratory risk assessment.
Issued: 14 August 2026 | Product information: dgkingpo.com

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Information required for a technically valid configuration

High-frequency surgical exposure tests cannot be specified accurately from device category alone. The following inputs determine the source mode, test circuit, interface arrangement and evidence package.

REQUIRED TECHNICAL INPUTS

Applicable standard	Standard number, edition and exact clause / figure to be implemented.
Device under test	Pacemaker, CRT-P, ICD, CRT-D, cochlear implant or other AIMD; include model and intended use.
Test mode	Continuous, burst or other specified exposure mode; include required duration and sequence.
Electrical requirement	Required output voltage or field condition, frequency / waveform information and required load where applicable.
DUT interface	Input, output, electrode or lead arrangement; connector details and any required fixture information.
Test network	Required network, coupling method, network component values or customer-supplied circuit drawing.
Control requirement	Manual operation, PC control, remote interface, data capture and report format requirements.
Calibration requirement	Required calibration points, verification method and whether third-party / accredited calibration is required.

QUOTATION AND DELIVERY SCOPE

- System configuration review against the supplied test requirement
- Test network / DUT interface arrangement as agreed
- Calibration or verification scope as specified
- Defined generator and exposure-mode configuration
- Operating documentation and configuration record
- Optional PC control and data-record requirements

IMPORTANT CONFIGURATION BOUNDARY

Do not assume a universal test network or fixed output specification. High-frequency surgical exposure methods depend on the applicable clause, device electrical interface and required circuit. Final output ranges, network topology, monitoring points, fixtures and documentation must be agreed before production.

PRODUCT PAGE

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For the latest product information and an application-specific inquiry, scan the QR code or visit:
www.dgkingpo.com/product/high-frequency-surgical-exposure-test-equipment/