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Cancer Diagnostic Probe (CDP) Unit

Standards:

- IEC 60601-1: 2016: International Standard: General requirements for basic safety and essential performance for medical equipment.
- IEC 60601-1-2:2014: EMC Compliance, General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests.
- ISO 62304: Medical Device software-Life cycle Process
- ISO 10993-10: Biological evaluation of medical Devices: Part 10: test for irritation and skin sensitization
- ISO 10993-5: Biological evaluation of medical Devices: Part 5: test for in-vitro cytotoxicity.
- ISO 11607-1: Packaging for terminally sterilized medical devices PART 1: requirement for materials, sterile barrier systems and packaging systems
- INSO 3001-1: Sterility compliance
- ISO 13485: Medical Device - Quality management systems

Cancer Diagnostic Probe (CDP)

Introduction:

Precise finding the involved regions in cancer surgery is a critical step to be ensured from safe removal of neoplastic cells with minimal dissection of the normal tissues.
A real-time system has been developed to diagnose the presence of neoplastic cells in internal boundaries (Cavity side margins) in patients under gone breast cancer surgery. The system named Cancer Diagnostic Probe (CDP) instantly determines the hypoxia glycolysis, in quantitative electrochemical manner.

Cancer Diagnostic Probe (C D P)

Specifications:

- Unique ability in intra-operative non-invasive checking of internal margins (in-vivo),
- Real-time,
- Replaceable head probe to prevent from disease transmission
- more than 97% sensitivity (correct positive scores on involved margins)
- more than 94% selectivity (correct positive scores on involved margins and correct negative scores on free margins)
- Integrated portable automatic electrochemical system,
- Distinguished vocal and visual alarms,
- Precise with declaration of Positive/Negative recommendation for dissection,
- Simple handling,
- Increased prognostic factor and survival rate of the patients.

Cancer Diagnostic Probe (C D P)

CDP Technical Data:

Specification	CDP10003A
Classification	Medical Device Class C
Power supply	8.3V-0.58A DC ⎓
Power consumption	0.7VA
Maximum current (with Probe connection)	1mA ±5%
Minimum measurable current – resolution (with Probe connection)	1nA ±5%
Isolation class (when used with AC / DC adapter included)	Class II ⧈
Compliance potential	±5V
Weight	0.285Kg
Dimensions	50 x 160 x 40 mm
Readability pick indicator	0uA-300uA
Functioning	60 min ON
Battery type	Godox VB18 II-IV 2200~AH
Battery Charge	7.4v, 860mAh
Battery life	12000 fully charge/discharge
Battery charging time	40min
Charger Type	Godox vc18 12-8v 2500 2500~ah
Charger Input	220 V ~/ 50 Hz ~
Charger Output	8.3V-0.58A DC
Charger pin model	3 pin AUX
Connection device	HC05-Bluetooth module
Connection specification	Maximum 12m connection length