esse 3 ®

CARDIOLOGY

® esse3

ESSE-1515
15/16-lead PC ECG

ESSE-1515 PC ECG provides you comprehensive ECG solutions, which integrates resting ECG, stress ECG and data management in one PC-based software.
Its user-friendly interfaces and reliable interpretation helps increase patient throughput and improve clinicians' efficiency. With latest ESDE15 sampling box, clinicians are able to do standard 12 -lead ECG tests, and also easily upgrade the tests into 15/16-lead only by adding 4 separated lead

ESDX12
12-lead wireless
sampling box

ESDP12
12-lead wired
sampling box

ESDE15
15/16-lead wired
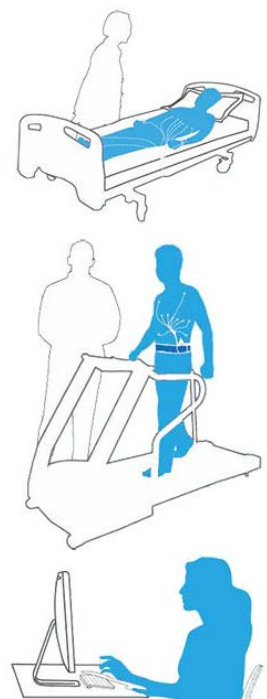sampling box

Powerful Functionality

• **Resting ECG**
ESSE-1515 PC ECG Is able to acquire as long as 30 min ECG waveforms both of standard 12 leads and 15/16 leads, and also allows you to store full disclosure data. ESSE-1515 uses latest version of Interpretation software SEMIP, combining with its automatic arrhythmia detection and proof for diagnosis, it helps clinicians make their quick cardiac decisions.

• **Stress ECG**
ESSE-1515 stress function provides standard as well as unlimited user-defined stress protocols which enable your stress tests more flexible.
Its advanced filter technology ensures stable ECG traces even though patients are in noisy environments. User-friendly functions and interfaces refresh clinicians with an efficient clinical trial.

• **Data Management**
ESSE-1515 PC ECG is able to archive reports from standalone ECG machines and provides clinicians on-screen ECG measurements to conduct a paperless workflow. Multiple report formats are provided which enables it more flexible for clinicians to choose their suitable formats. It also can transmit ECG data to HIS/EMR/PACs via HL7 and DICOM worklist.

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User-friendly design

- **Separated leadwires**
  Separated ECG leadwires makes it easy to plug or unplug any single lead, which helps save your service cost.

- **Color-coded leads**
  Color-coded leads conduct clinicians to quickly find the right lead wires.

- **ECG signal quality indicator**
  Quickly identify the poor or missing ECG signals by visual color-coded indicators.

- **One-touch button**
  One-touch button on the sampling box enables to start or stop ECG acquisition without going to PC side.

Separated Leadwires

On-touch Button

ECG Signal Quality Indicator

ECG Signal Quality Indicator

Manual Measurements

ECG Reports Comparison

ECG Templates Comparison

Auto Arrhythmia Detection

- **Intuitive interfaces**
  Intuitive interfaces enable you minimal training requirement and improve your work efficiency.

- **Long-time ECG sampling**
  It allows up to 30 minutes ECG sampling, and full disclosure data enables to review every beat and arrhythmia.

- **Manual diagnosis**
  Any parts of waveforms allow to be frozen, zoomed in, measured and printed during an ECG examination.

- **Leads reversal**
  Clinicians can reverse the leads in wrong placement directly on the software without changing the placements on the patients and performing another ECG acquisition.

- **ECG reports comparison**
  Clinicians are allowed to retrieve the historic reports and compare them with the current ones when they are doing analysis.

- **The editable ECG report**
  Users can customize the final report besides the existing report templates.

- **Unlimited protocols for stress test**
  Standard and unlimited user-defined protocols are offered, facilitating your standard or customized stress tests.

Professional Performances

As a professional ECG solution, ESSE-1515 PC ECG is always dedicated to bringing clinicians accuracy and high efficiency in both ECG sampling and diagnosing.

- **Accurate Clinical Performances**
  - The sampling rate is as high as 16,000Hz. Combining with advanced 24 bit A/D converter, it enhances accurate ECG waveforms acquisition.
  - The high CMRR over 140d8 and comprehensive filters ensures clear waveforms for viewing and reporting.
  - The wide bandwidth 0.01-300Hz enables paediatric ECG diagnosis more accurate according to AHA 2007.

- **15/16-lead ECG**
  The DE1 5 sampling box offers 4 additional leads which are specialized for the right side chest leads (V3R, V4R, V5R) or posterior leads (V7, V8, V9) to facilitate 15/16-lead ECG acquisition.

CE

ECG Findings

Proof for Diagnosis

Events Management

- **The reliable SEMIP algorithm**
  The latest SEMIP algorithm with 12-lead and 15/16-lead ECG diagnosis function to maximize your confidence in making diagnosis.

- **Proof for diagnosis**
  Proof for diagnosis is newly included in the diagnosis results, which helps to get more convincing reports and make correct decisions.

- **Automatic arrhythmia detection**
  Arrhythmia can be detected, highlighted and saved automatically for the further analysis.

- **Event mark**
  Every arrhythmia or remarked waveforms can be saved as events automatically for clinicians' further analysis.

- **Advanced filter technology**
  Advanced filter technology stabilizes ECG waveforms and ensures the clear and accurate ST segment assessments during the stress tests.

- **Complete evaluation methods for stress test**
  METs, Double Product, Duke score as well as FAI are evaluated in your stress test, which presents clinicians more complete references to make proper decisions.

Seamless Connectivity

ESSE-1515 PC ECG enables to archive, review and edit ECG data from ECG machines. Several ESSE-1515 software on a LAN are also able to present a paperless networking solution for editing, reviewing, printing and exporting reports via one database. Using the industry-standard communication protocols, ESSE-1515 PC ECG is able to provide an easy access to HIS/EMR/PACs.

Hospitals
EMR/HIS/PACs

DICOM/HL7

ESSE-1515

GDT

Clinics

Clinics
GDT-based

- **Bi-directional communication with ECG machines**
  ESSE-1515 software can pass patient info down to ECG machines and receive ECG reports from them directly and automatically.

- **Database sharing**
  One ESSE-1515 software can work as a server to share its database, and the other ESSE-1515 as clients are allowed to access the database, and make diagnosis on different sites.

- **Multiple formats exporting**
  PDF/XMUSCP/DICOM/JPG/BMP/DOC format reports can be exported directly.

- **HIS/EMR/PACs access**
  It supports HL7 /DICOM worklist, which enables HIS/EMR/PACs access.

Wi Fi

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