

electro- cardiographs

advanced medical instruments

STRING[®]

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Advanced medical instruments that make diagnostics easier and improve the quality of life for patients

String Advanced Medical Instruments is a Polish company specializing in the production and distribution of **ultramodern medical equipment**. Established with passion for creation by people with extensive experience in the field of **medicine and advanced technologies**.

Our designers and constructors ensure that the solutions provided are **easy to use tools** in the hands of professionals. Together with our clients, we strive to make medical care better.

state-of-the-art

innovative

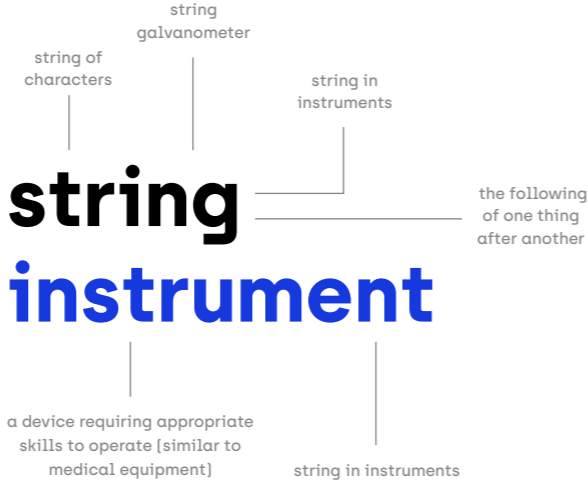
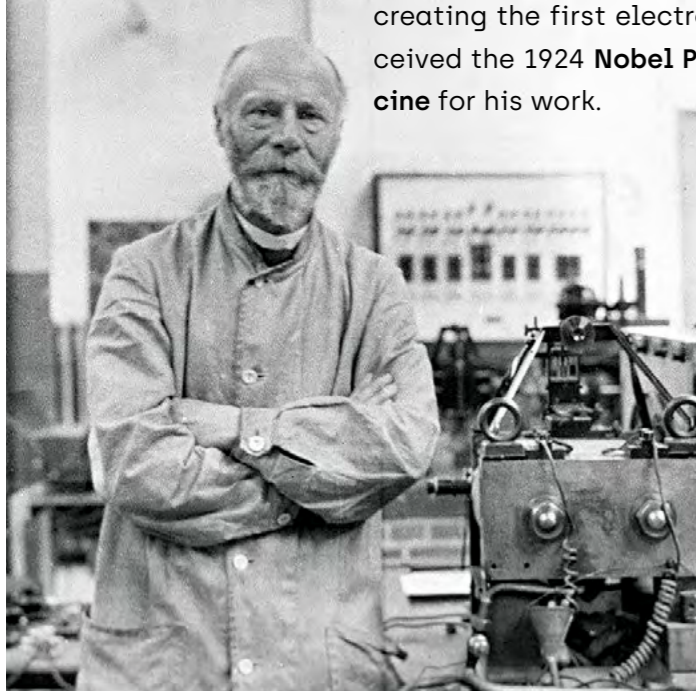
ergonomic

humbleness

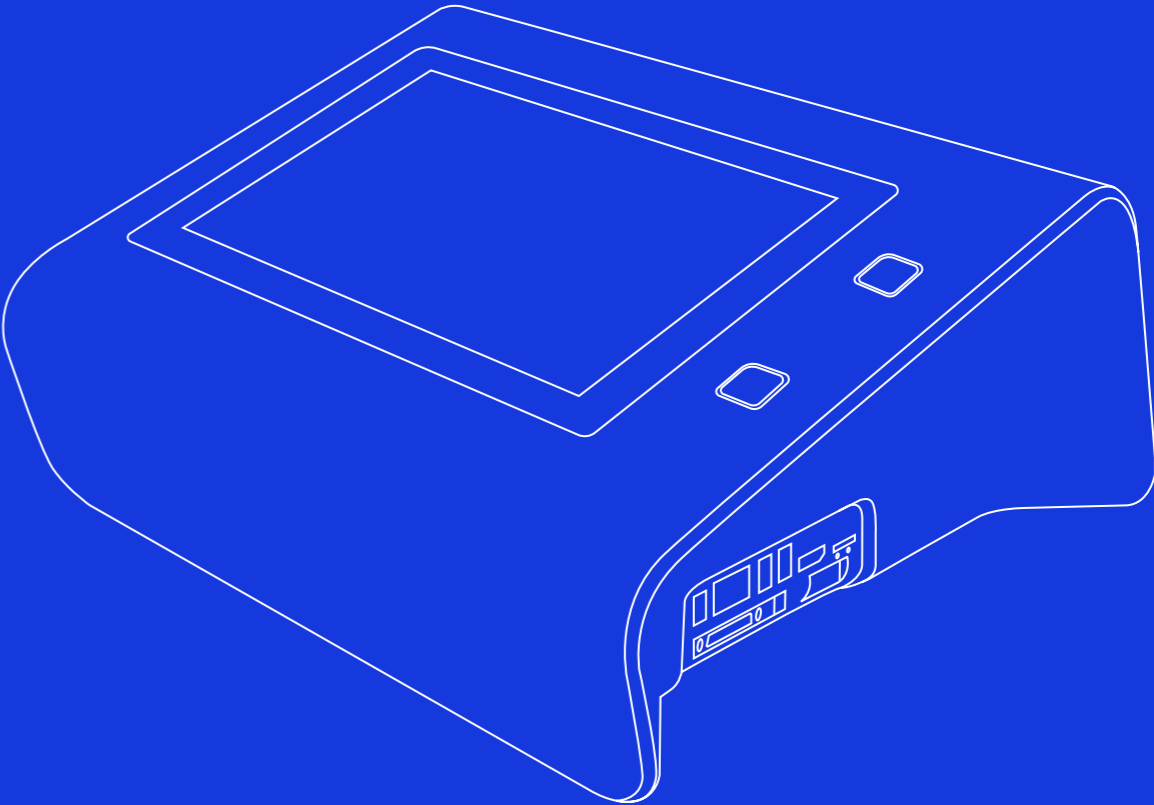
effectiveness

ABOUT THE NAME STRING

The company name String was inspired by the **first ECG device that appeared in the world**. The String Galvanometer was invented around 1901 by the Dutch physician **Willem Einthoven**. The String apparatus was the first practical electrocardiograph (ECG) and one of the first instruments capable of detecting and recording very small electrical impulses generated by the human heart and at the same time creating the first electrocardiograms. Einthoven received the 1924 **Nobel Prize in Physiology and Medicine** for his work.



opus 1'



FEATURES AND BENEFITS

The future of service -
the world's first
electrocardiograph with online
ordering and remote support



BUILT-IN ORDER POINT ALLOWS YOU TO QUICKLY ORDER THE NECESSARY ACCESSORIES AND SAVE VALUABLE TIME

- Online ordering of consumables
- Time-saving
- Quick delivery time for the required accessories



THE ONLINE ASSISTANT IS YOUR DIRECT SUPPORT WITH OPUS 1, WHOSE TASK IS TO HELP YOU REMOTELY WHILE WORKING WITH THE UNIT

- Diagnostics of the device
- Configuration assistance
- Software updates
- Backup and restore of factory data
- Optimization of settings and tips for using all of the functions

ADVANCED ELECTRO- CARDIOGRAPH

Opus 1 is an ultra-modern 12-channel electrocardiograph designed for the most demanding users. The exterior design combines a simple look with elegant proportions.

- **Designed for simplicity** - only two touch buttons simplify the operator's work. Just turn it on and get the job done.
- **High-quality printouts** on 210 mm or 112 mm wide paper provide an excellent diagnostic image.
- **Unique feature of adjusting** sample levels up to 32,000 Hz guaranteeing exceptional clinical precision.
- **Utility** - With storage space for up to 100 000 exams and 2 rolls of paper inside the Opus 1 delivers maximum utility.
- **WiFi and Bluetooth** options make it easy to transfer ECG data to any location.
- Modern **ECG analysis** and interpretation makes it the ultimate device.



High-resolution 10.1"
splash-proof touch screen



THE STRING CART L IS A DEDICATED CARRIER SYSTEM FOR THE OPUS 1

The **spectacular drawer** will make an impression and accommodates everything that is necessary.

The **solid structure** of the cart makes it reliable and durable.



The **ergonomically designed** handle provides comfort and maneuverability.

Its **modern design** will complement any doctor's office interior.

opus mini[®]



ADVANCED ELECTRO- CARDIOGRAPH

The compact and lightweight Opus mini electrocardiograph offers versatile functionality and speed of operation.

- 8 inch **touch screen** allows for simultaneous monitoring of all 12 leads.
- Economic printouts on **112 mm wide paper**.
- **WiFi and Bluetooth** options make it easy to transfer ECG data to any location.
- The possibility of integration with any medical facility **management system** (HL7 or DICOM) makes the Opus mini cardiograph an ideal partner in any ECG laboratory.
- Modern ECG **analysis and interpretation** is available.



**THE STRING CART S
IS THE OPTIMAL MEANS
OF TRANSPORT FOR
OPUS MINI & OPUS 1**

**8 inch
touch screen**

Thanks to its clever design, it was possible to achieve maximum usability and capacity while maintaining small dimensions.

Its simple construction makes it easy to clean.



Its compact size will allow it to be easily maneuvered and placed wherever you want.

4 wheels, including 2 with brakes.

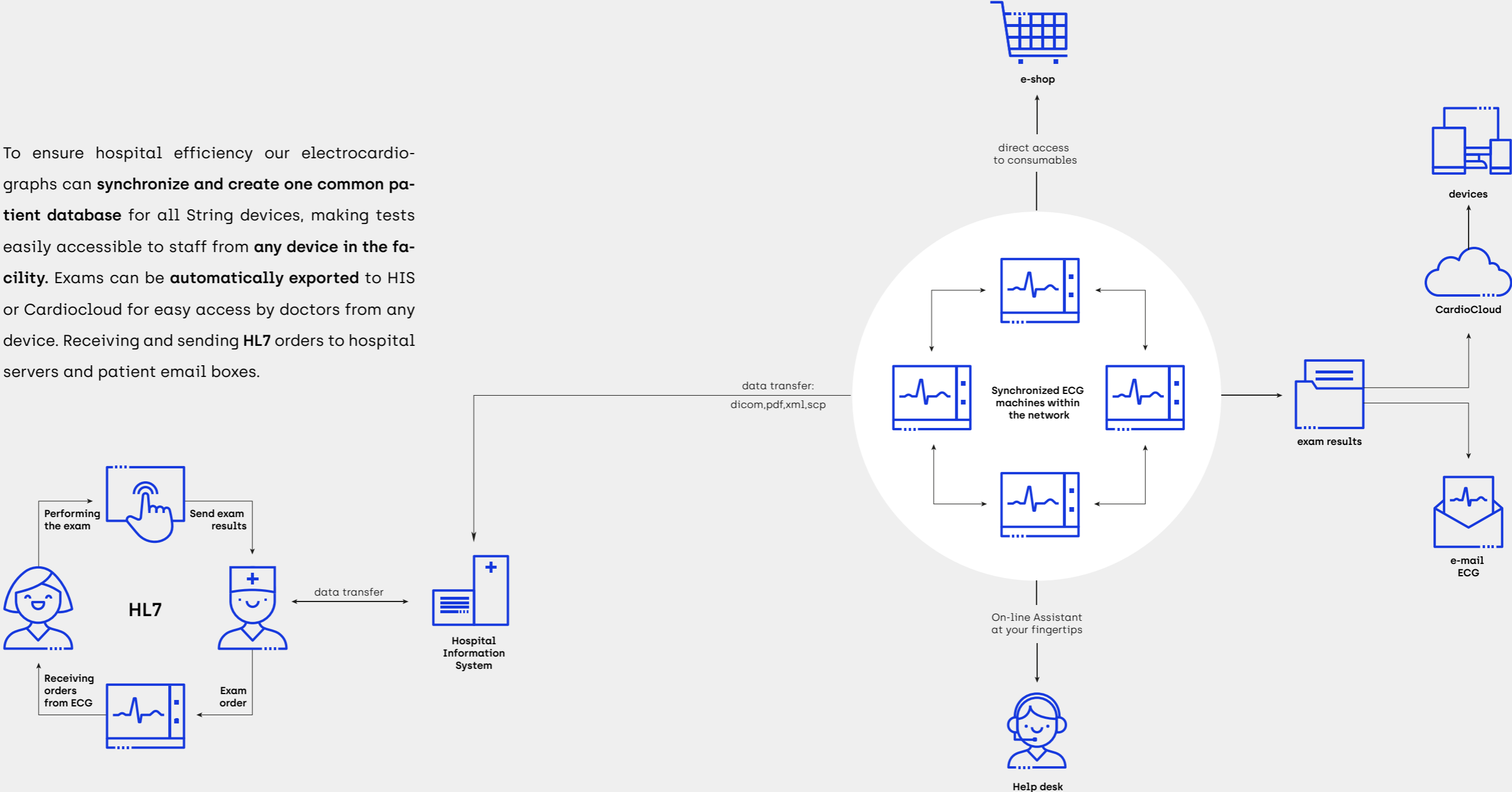
TECHNICAL PARAMETERS

	OPUS 1	OPUS MINI
12-CHANNEL SIGNAL	✓	✓
SCREEN	10" color touch screen	8" color touch screen
SCREEN RESOLUTION	1280 x 800	1024 x 600
MAINS AND LI-ION BATTERY	✓	✓
WEIGHT	approximately 3,2 kg [with built-in rechargeable battery]	approximately 2,1 kg [with built-in rechargeable battery]
POWER SUPPLY 115V / 230V, 50-60HZ	✓	✓
THE WIDTH OF THE PAPER	210 mm & 112 mm	112 mm
PAPER TYPE	roll & z-fold	roll
PAPER SPEED (MM / S)	✓	✓
5; 10; 12.5; 25; 50; 100		
PACEMAKER DETECTION	✓	✓
SENSITIVITY (MM / MV) 2,5; 5; 10; 20	✓	✓
MAINS FILTER (HZ) 50-60	✓	✓
MUSCLE TREMOR FILTERS (HZ) 25; 35	✓	✓
BASELINE FILTERS (HZ) 0.05 - 1.5 HZ	✓	✓
PULSE BEEP	✓	✓
AUTOMATIC PROFILE	✓	✓

	OPUS 1	OPUS MINI
MANUAL PROFILE	✓	✓
SAMPLING FREQUENCY	up to 32000 Hz	8000 Hz, 32000Hz [option]
DATA STORAGE	USB and SD card	USB
INTERFACE	Built-in WiFi module, Bluetooth, HDMI output, 3x USB, Ethernet, SD card	Built-in WiFi module, Bluetooth, 1x USB, 3x USB [option], ethernet [option]
SYNCHRONIZATION	Cloud, FTP, Samba,	FTP, Samba
EXPORT	HL7, DICOM, PDF, SCP, xml	DICOM, PDF, SCP, xml, HL7 [option]
NETWORK PRINTERS	✓	✓
STRESS TEST READY	✓	✓
BUILT-IN STRESS TEST	option	—
SPIROMETRY READY	✓	✓
SPO2 READY	✓	option
BARCODE SCANNER READY	✓	option
EXTERNAL MONITOR	✓	—
STORAGE CAPACITY	100 000 exams	20 000 exams
SPLASH-PROOF DISPLAY	✓	—

NETWORK APPARATUS OPERATION

To ensure hospital efficiency our electrocardiographs can **synchronize and create one common patient database** for all String devices, making tests easily accessible to staff from **any device in the facility**. Exams can be **automatically exported** to HIS or Cardiocloud for easy access by doctors from any device. Receiving and sending **HL7** orders to hospital servers and patient email boxes.



STRING

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