



**PHILIPS**

Efficia ECG100

# Connecting to care

## Philips Efficia ECG100

Philips Efficia ECG100 acquisition device is a cost-effective way to capture, display, and print simultaneous 12-channel ECG waveforms for both inpatient and outpatient care. Ultra-portable and built to work with app-enabled smartphones and tablets for Android™ users can view 12-channel ECGs directly on their mobile devices. The specially-designed app offers an intuitive user interface with simple workflow, display, storage, and seamless sharing of ECG reports. This device functions without any infrastructure WiFi.

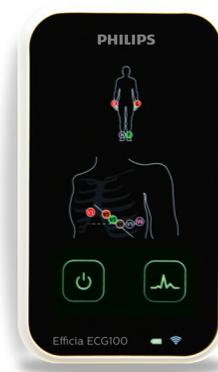
Efficia ECG100 offers field-proven Philips technology with a low cost of ownership, so you can share vital health information with consulting cardiologists and specialists, even in remote locations. This diagnostic-quality ECG acquisition device is designed for private clinics, nursing homes, hospitals, and other healthcare centers, allowing technicians and clinicians to enhance patient care.



# Efficia ECG100 acquisition device

## How it works

- 1 ECG cables and electrodes are connected to both the patient and Efficia ECG100 acquisition device.
- 2 Efficia ECG100 acquisition device acquires ECG information.
- 3 Efficia ECG100 acquisition device wirelessly sends information to the ECG100 app for Android (tablet or phone\*).
- 4 Using the ECG100 app, ECG reports can be stored or emailed to a consulting physician.



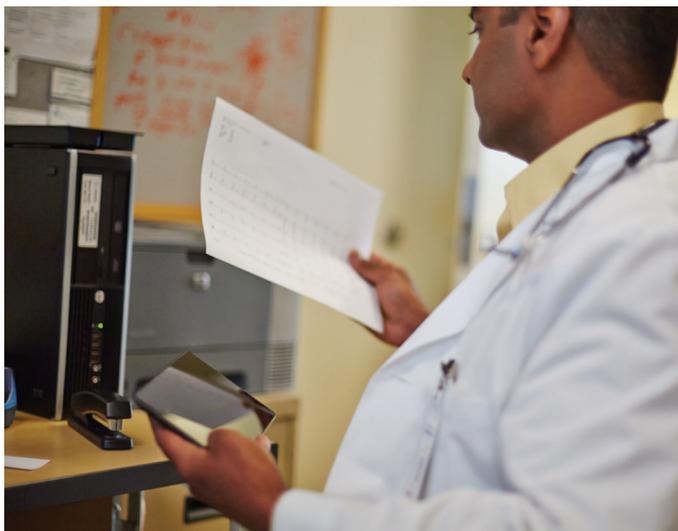
## Key advantages

- Fast ECG reporting to a printer, or wirelessly send reports to a computer or off-site health expert
- Relay ECG waveforms to an app-enabled smartphone or tablet for Android
- Reference past ECGs for further evaluation and follow-up care
- Lead map, lead disconnection, and noise level indicators help facilitate accurate readings

\*Android-based tablet and phone not included.

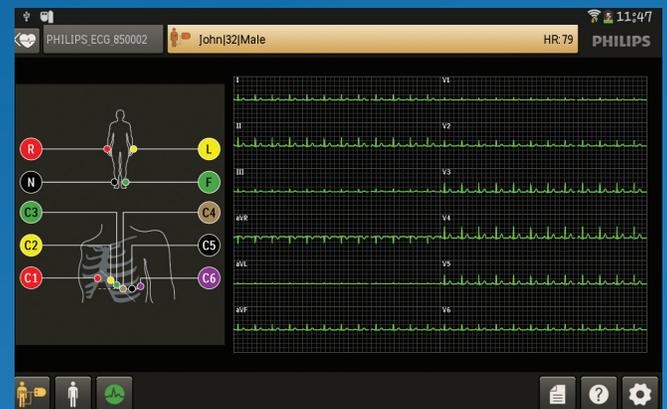
# The power of **timely information**

Diagnosis in the early stages of cardiac-related illness can help slow the progression of disease, improve patient care, and reduce healthcare costs. Philips Efficia ECG100 works with app-enabled devices for Android, providing opportunities for expert consultation, and expanding access to care for resource-constrained healthcare settings and their patients.



## Care providers can also benefit from these convenient **ECG100** features:

- Easy-to-use, intuitive interface
- Small, portable design (<300 grams) for use in a wide variety of care environments
- About 4 hours of continuous usage on Li-ion battery
- Digitally stored ECG PDF reports make it easier to share via email
- Rapid transmission of ECG via email\* for follow-up or additional reviews
- Large storage capacity: 1,000 ECGs per 1 GB
- High-resolution PDF storage with the ability to print on A4 paper, resulting in lower costs when compared to printing on thermal paper
- Choice of grayscale or color prints



Lead map indicator and ECG screen

\*Subject to device capability

# Efficia ECG100 product specifications

## ECG acquisition device

Patient module	Separate ECG acquisition device
Dimensions	< 150 mm (L) x 90 mm (W) x 30 mm (H)
Weight	< 0.4 kg (without ECG cable)
Power adapter	Input voltage: 100 to 240VAC Input current: Maximum 0.15A @ 240VAC Input frequency: 47 to 63Hz Output voltage: 5V ± 5% Maximum output current : 2A
Operating conditions	Temperature 10 °C to 40 °C (50 °F to 104 °F) Humidity 10% to 90% relative humidity (non-condensing)

## ECG measurements

Standard global measurements	Yes
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## Battery

Type	Lithium-ion rechargeable battery
Capacity	3.7V typical with 1.9AH battery capacity
Life cycle	At least 300 charging cycles

## Storage

No. of ECGs stored	Storage depends on SD card capacity and internal memory of the tablet/mobile phone; 1,000 ECGs can be stored on 1 GB
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## ECG acquisition details

Number of channels	12
Acquisition mode	10 seconds simultaneous data
ECG report format	PDF
ECG report output	6x2, 3x4, 3x4 + 1R, 1x1, lead groups
Pace pulse detection	Yes
Raw data acquisition on analog front end	1,000 samples per second
Sampling rate	500 samples per lead
Auto frequency response	0.05-150Hz, 0.15-150Hz, 0.5-150Hz, 0.05-100Hz, 0.15-100Hz, 0.5-100Hz, 0.05-40Hz, 0.15-40Hz, 0.5-40Hz

## Device requirements

Display	Uses off-the-shelf Android-based tablet/mobile phone
Display size	Minimum 4.2 inch screen size
Display resolution	Minimum 800 x 480 pixel
Memory	Minimum 512 MB configured RAM and 1 GB flash memory

## Display/data screen

Touch screen	Resistive/capacitive touch screen on tablet/mobile phone
Display channels	12
Keyboard	Touch keyboard on tablet/mobile phone
Displayed patient data	Patient name and age, heart rate, waveforms
Other displayed data	Acquisition device battery indicator, lead label, speed, gain, filter settings, warning messages, info messages, prompts, 12-lead standard display

## Environmental storage conditions

Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Humidity	10% to 90% relative humidity (non-condensing)

## Key features

Simultaneous 12-lead ECG from 10 electrodes
Defibrillator protection
Leads off detection
AC noise removal
Wireless printing of PDF ECG report
LED indication on acquisition device for battery, WiFi, power, and ready to acquire ECG

## Connectivity

Soft AP mode WiFi connectivity from acquisition device to application
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## Classifications

IEC safety classification	Class II Equipment
Applied part	Defibrillation proof type CF applied part
IP rating	IPX1

## ECG cable

10-lead wire single connector lead set
IEC
Banana plug type connectors

## Standards compliance

IEC 60601-1: Ed 3.1 2012 General requirements for basic safety and essential performance
IEC 60601-2-25, Ed 2.0 2011 Particular requirements for the basic safety and essential performance of electrocardiographs
IEC 60601-1-2: Ed 3.0 2007 Electromagnetic compatibility requirements and tests

