GENORAY

Port-X IV

Portable Dental X-ray system

reddot

All in one Technology & New experience

CONTENTS

- Introduction
- FEATURES
  - Superior Design
  - Smaller, Lighter
  - Image comparison
  - User Interface
  - Integration of I/O Sensor
  - Wireless Image Transfer
  - Mobile App Support
  - Remote Upgrade
  - Long Battery Life
- SAMPLE IMAGES
- Comparison (PORT-X III vs PORT-X IV)
- Comparison (PORT-X IV vs Other product)

Durability!

Port-X II
since 2003

Port-X III
since 2007

Port-X IV
2017 ~

Users in the portable market want smaller, lighter, easier to use products.
With the PORT-X IV you get a new experience.

PORT-X IV is Improved Everything !

- Lighter, Handheld Portability
- Clear images: 0.4mm Focal Spot / 70kV Tube Voltage
- Small dose of radiation
- Direct connection with digital intra oral sensor
- Easy Data transfer with Wi-Fi
- Remote firmware updates
- Superiority in design
- IPS LCD Display: More clear and wide-viewing angle
- Long battery life: Li-polymer 22.2VDC, 1,000mAh/25C
- Image viewer: enlargement/movement/brightness/invert/filter
- Patient management without PC

Superior Design

- Emotional and ergonomic design for comfortable operation with one hand
- Reddot award 2017 winner

PORT X-IV

Portable Dental X-Ray Camera

Manufacturer
GENORAY Co., Ltd., Seongnam, South Korea

In-house design
GENORAY Co., Ltd., Seongnam, South Korea

Design
we'd design, Seongnam, South Korea

reddot award 2017
winner

With the portable dental X-ray camera Port X-IV, dentists are entirely independent and able to take X-rays from any position and at any place. Thanks to the low dosage of radiation, the camera is safe for both patients and doctors. The housing with its rounded edges has deliberately been kept simple in order to improve acceptance by the patient. The examination process is shown on the graphic LCD display. The X-ray images can be transmitted via Wi-Fi.

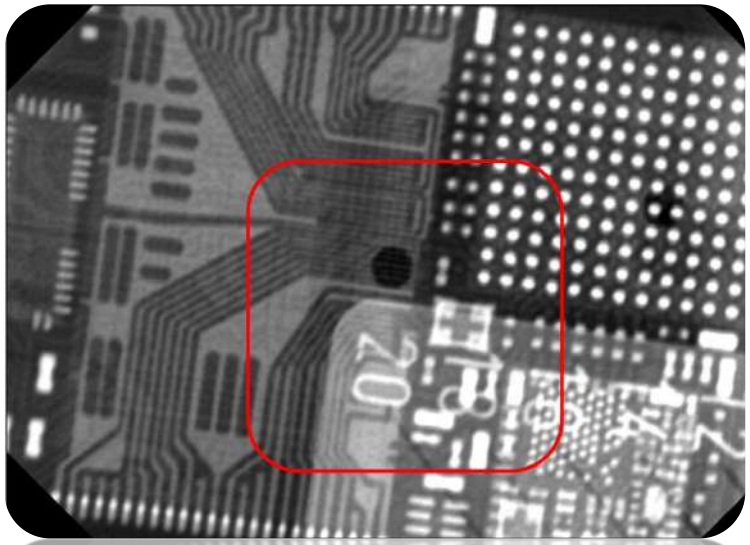
Statement by the jury

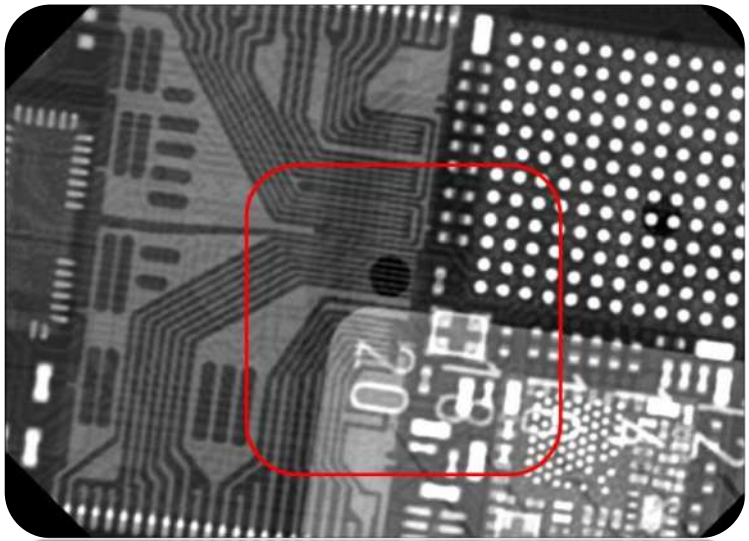
»The design language of the Port X-IV draws on the aesthetics of modern consumer electronics in a fascinating way, which makes it particularly easy to use. «

Device Specification

kV	70kV
mA	2mA
Exposure time Range	0.05~1.6
Weight (kg)	1.5 kg (Body: 1.3kg, Battery: 0.2kg)
Focal spot (mm)	0.4 mm
Target angle	12.5°
Filter (AL)	1.8
Battery Type	Li polymer 22.2VDC, 1,000mAh/25C
Size	140 * 173 * 254 (WxHxD)

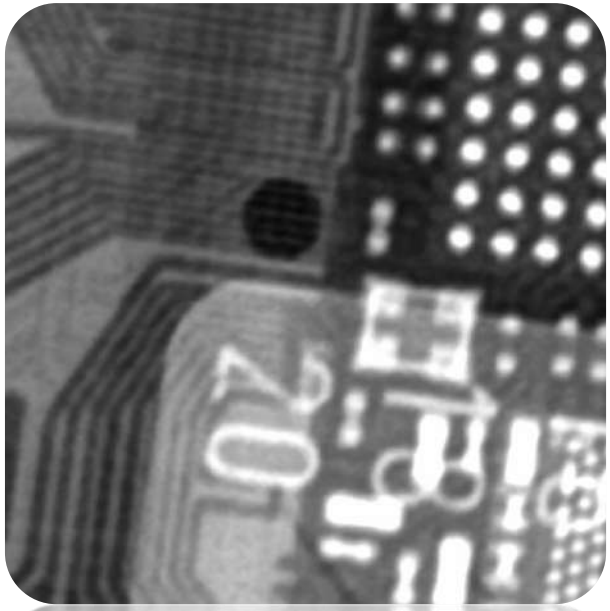
Comparison of images

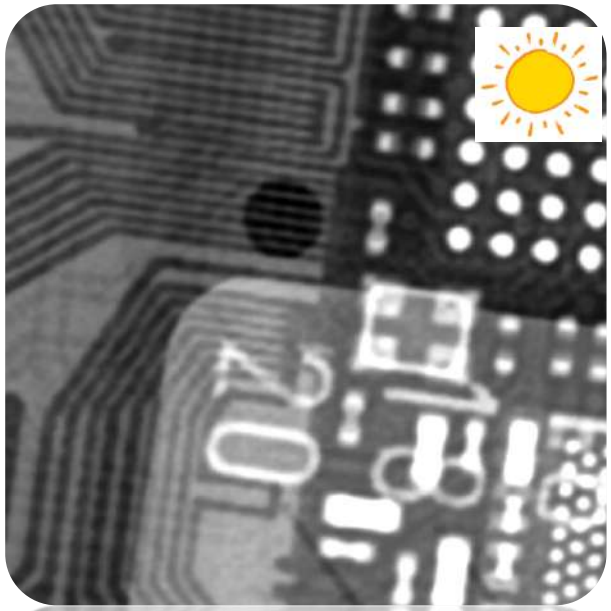




Focal Spot	0.8mm (PORT-X III)	0.4mm (PORT-X III)
KV	60 kV	70kV
mA	2mA	2mA
Sec	0.6sec	0.5sec
SID	275mm	275mm

Comparison of images (Magnified)

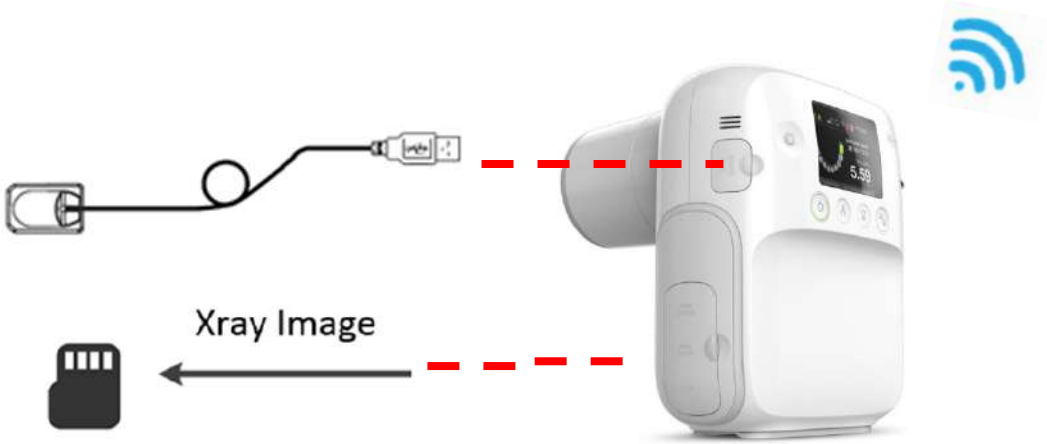




Focal Spot	0.8mm (PORT-X III)	0.4mm (PORT-X III)
KV	60 kV	70kV
mA	2mA	2mA
Sec	0.6sec	0.5sec
SID	275mm	275mm

Integration of I/O Sensor

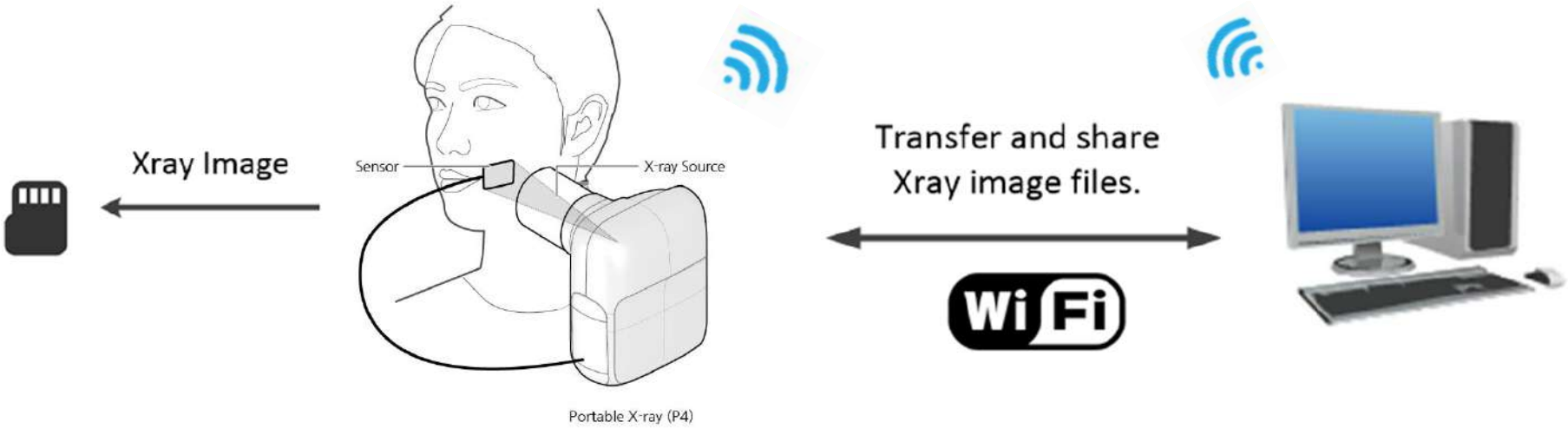
PORT-X IV can be linked directly with Digital Intal Oral Sensor by applying high performance embedded system. The UI of the device has its own patient management / image viewer function, which provides integrated functions from shooting to imaging. As a result, the shooting operation is simplified in the inspection room and the function of Quick View after shooting can enhance the reliability of the shot image.



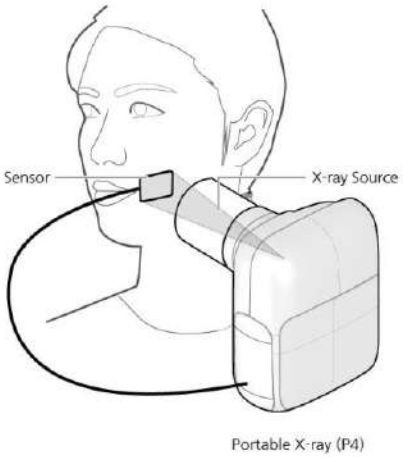
Wireless Image Transfer

The captured images are basically stored on a Micro SD card and can be transferred to a PC at any time via a Wi-Fi wireless environment free of wires and can easily be moved to another laboratory

The patient management program of the PC makes it easy to request the patient to be photographed.



Mobile Application Support



Patient Info.

Response

Request

PORTX-IV Connecting request
Patient Registration
Patient Searching
Patient info amendment
Image request

PORTX-IV
Patient management / Shooting

Mobile app
Patient management /Diagnosis

Mobile Application

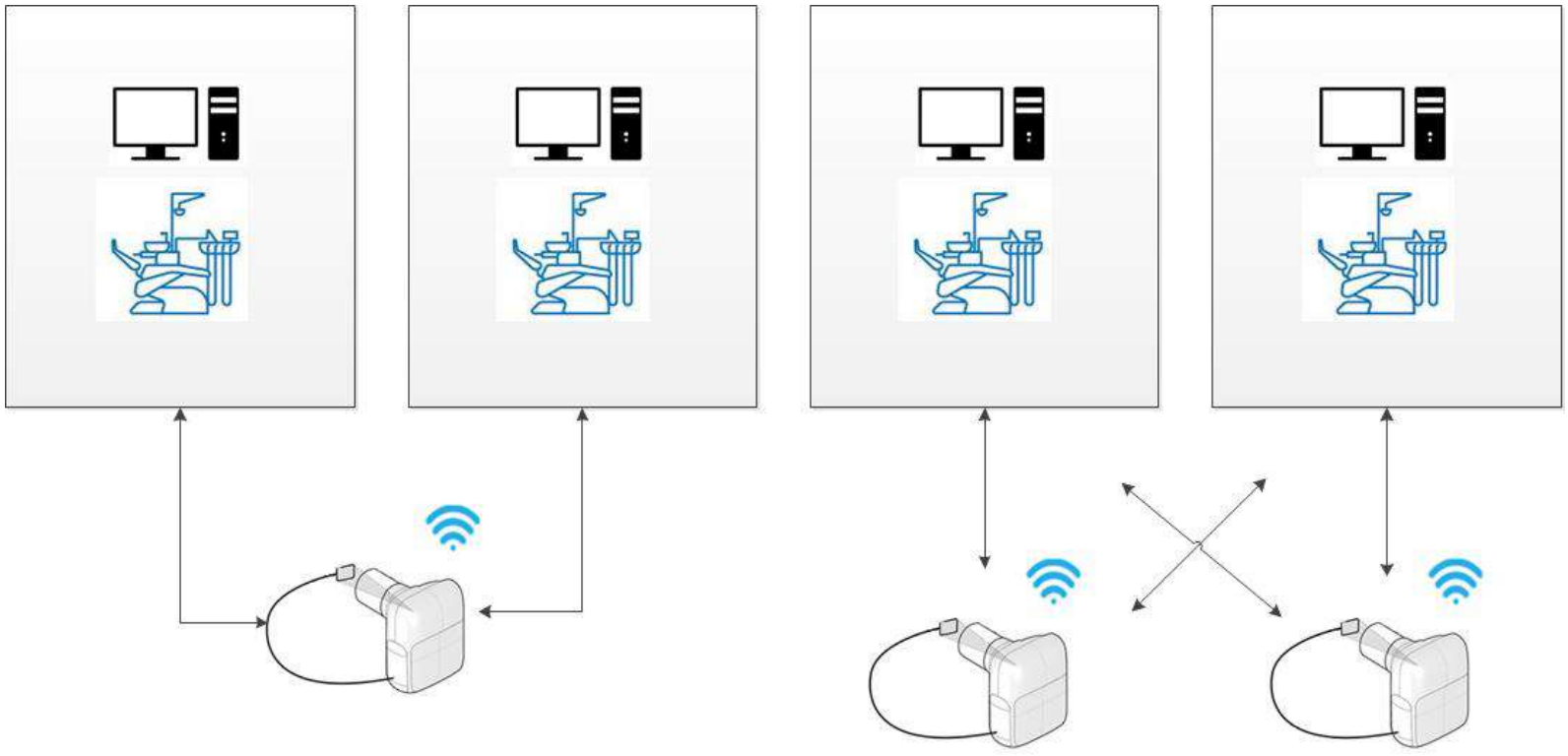
- Easily manipulate images with finger touch
- Simple, powerful features
- Adherence diagnosis to patient
- Reasonable solution that can maximize effect even with simple configuration

App Store

Google play

Process Diagram

Single and multiple configurations are possible between the PORT-X IV equipment and the laboratory.

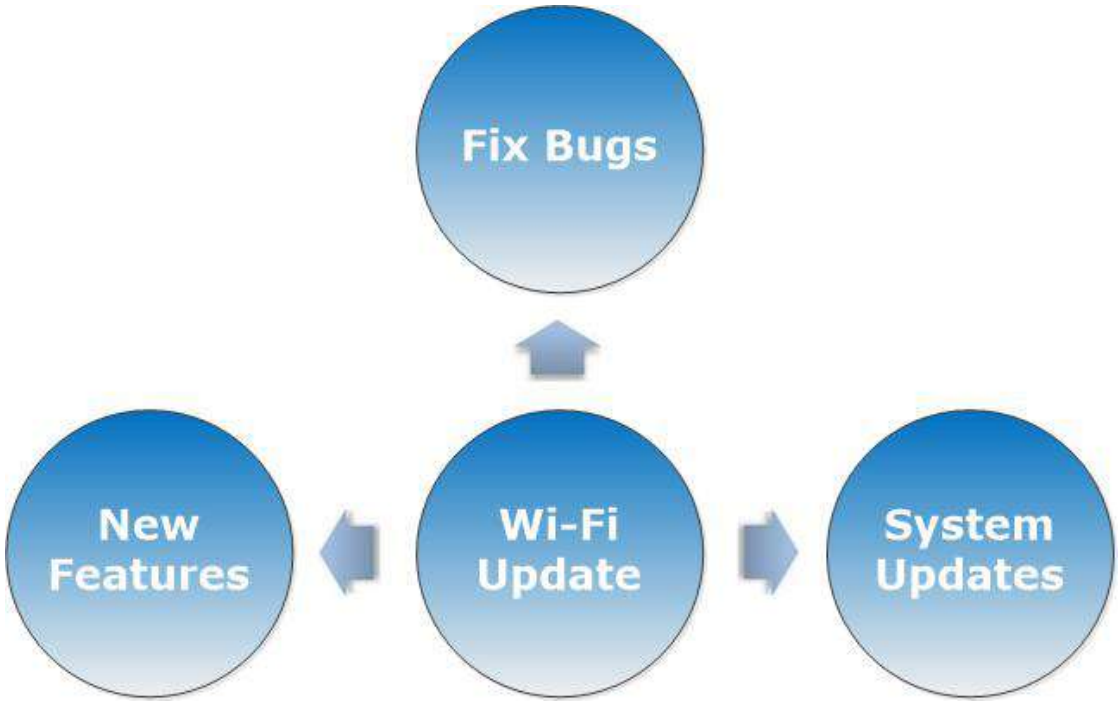


1:N

N:N

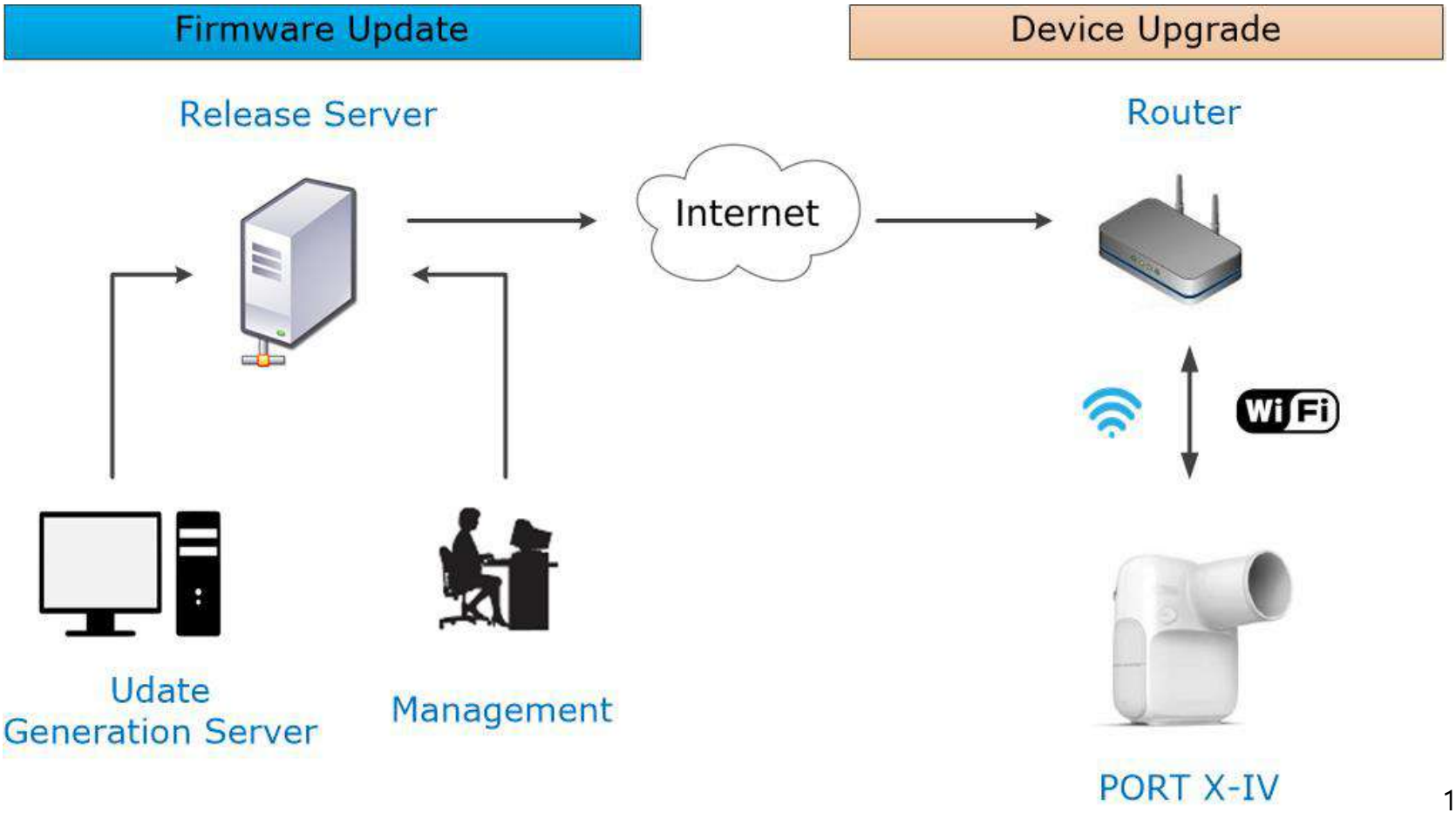
Need for Upgrade?

It is necessary to solve potential problems and improve performance and stability. You'll have the opportunity to get new features and a better experience. This continuous upgrading ensures the competitiveness of the product and it is possible to have the AS related to the whole SW, which is cost effective.

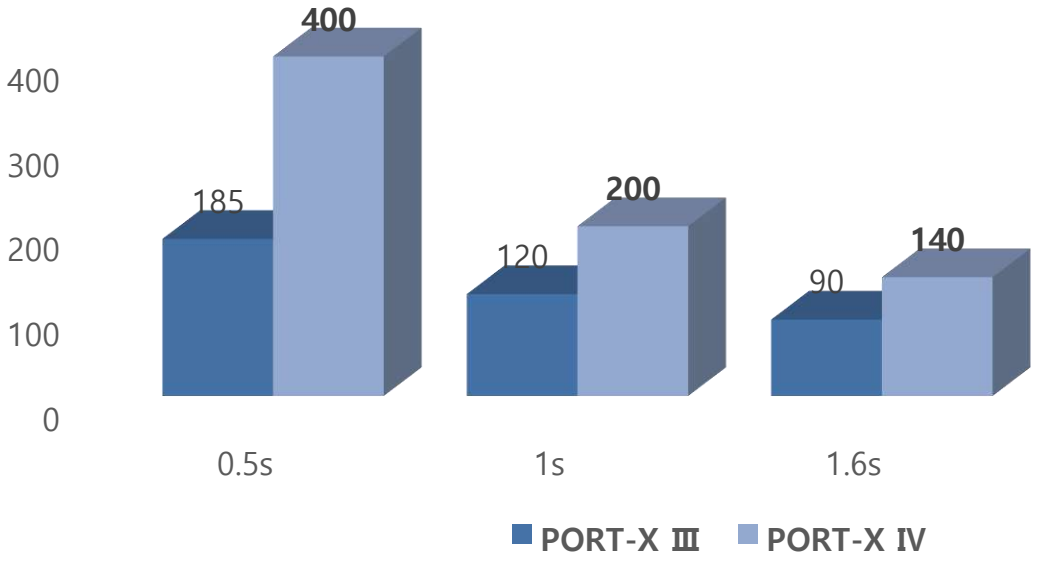


Remote Upgrade

This is a unique wireless technology-enabled service that allows you to upgrade your device's firmware wirelessly.
You can upgrade your firmware to the latest version at any time in a Wi-Fi environment without having to connect your device to a PC for firmware upgrades, or visit customer visits and service centers.



Battery Life (Exposure time)



Exposure Time	PORT-X Ⅲ	PORT-X IV	Improvement Ratio
0.5s	185	400	216%
1s	120	200	166%
1.6s	90	140	155%

PORT-X Ⅲ- 60kV/2mA, 22.2V/910mAh
PORT-X IV- 70kV/2mA, 22.2V/1000mAh
* 1:30 Duty cycle

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www.genoray.com

Thank You

Digital X-ray system maker, GENORAY Co.,Ltd.

Let me briefly go over the sales history of wireless handsets.
As you can see from the chart, Samsung's wireless handset business has shown sustainable growth in the past.
Our sales units are expected to grow from 7.5 million units in 1998 to over 65 million

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