

Revision: 202010
Runyes reserves the right to make modifications without prior notice.

Runyes[®]
FOCUS ON DENTAL

Explore Dental

IMAGING SYSTEM

Runyes[®]
FOCUS ON DENTAL

Runyes Medical Instrument Co.,Ltd.

Add:No. 456, Tonghui Road, Jiangbei Investment & Pioneering Park C, Ningbo,China
Tel:+86-574-27709922 Fax:+86-574-27709923
Http://en.runyes.com E-mail:runyes@runyes.com



IMAGING HISTORY —

Since the establishment of Runyes Group in 2000, the imaging series products have been running through the whole Group development and we have been looking for ways to bring in new innovative dental imaging products. Based on industrial frequency, high frequency, portable, and sensors, we continue to explore and innovate, writing our own stories. (Now it will also be shown in front of you, let's witness the stories of Runyes imaging development together!)

Creation Intraoral
Breakthrough Safety Stability
Dentistry
Accrossing Responsibility

CONTENTS



AC X-Ray

01-06



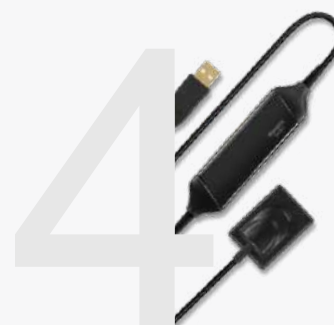
DC X-Ray

07-12



Portable X-Ray

13-18



Digital Sensor

19-24

AC
X-Ray Series



Mobile X-Ray
RAY68(M)-D



Wall Mounted X-Ray
RAY68(W)



Wall Mounted X-Ray
RAY68(W)-2.0



Mobile X-Ray
RAY68(M)-B

IMAGING START



RAY68(M)-D

Convenient hand control hanger

Original imported universal wheel:
Smooth and flexible movement,
shock absorption without noise

The telescopic arm can be operated with a broad angle,
The coaxial axis can rotate 370° in horizontal and 320° in vertical.

Imported X-ray tubehead

Leather wrapped patient seat beautiful and comfortable



RAY68(M)-B

MORE CLEAR IMAGES

SHOW YOU CLOSER TO THE NEW VISION OF DENTISTRY

The world's scenery is wonderful, ranging from the vast expanse of the starry sky to the wonderful and extraordinary micro-world. The human-beings are always on the way of exploring. In the field of dentistry, Runyes Group spent several years of painstaking research and finally had Runyes industrial frequency X-ray series coming out. With its simple and stylish design, convenient and easy operation, as well as the high-definition imaging quality, it quickly became popular all over the world, which is a milestone victory in the development history of Runyes Group.

➞ Microprocessor Control

Easy operation, the exposure time can be set automatically or manually as required

➞ Open Consumables

The industrial frequency series can use all types of dental films on the market

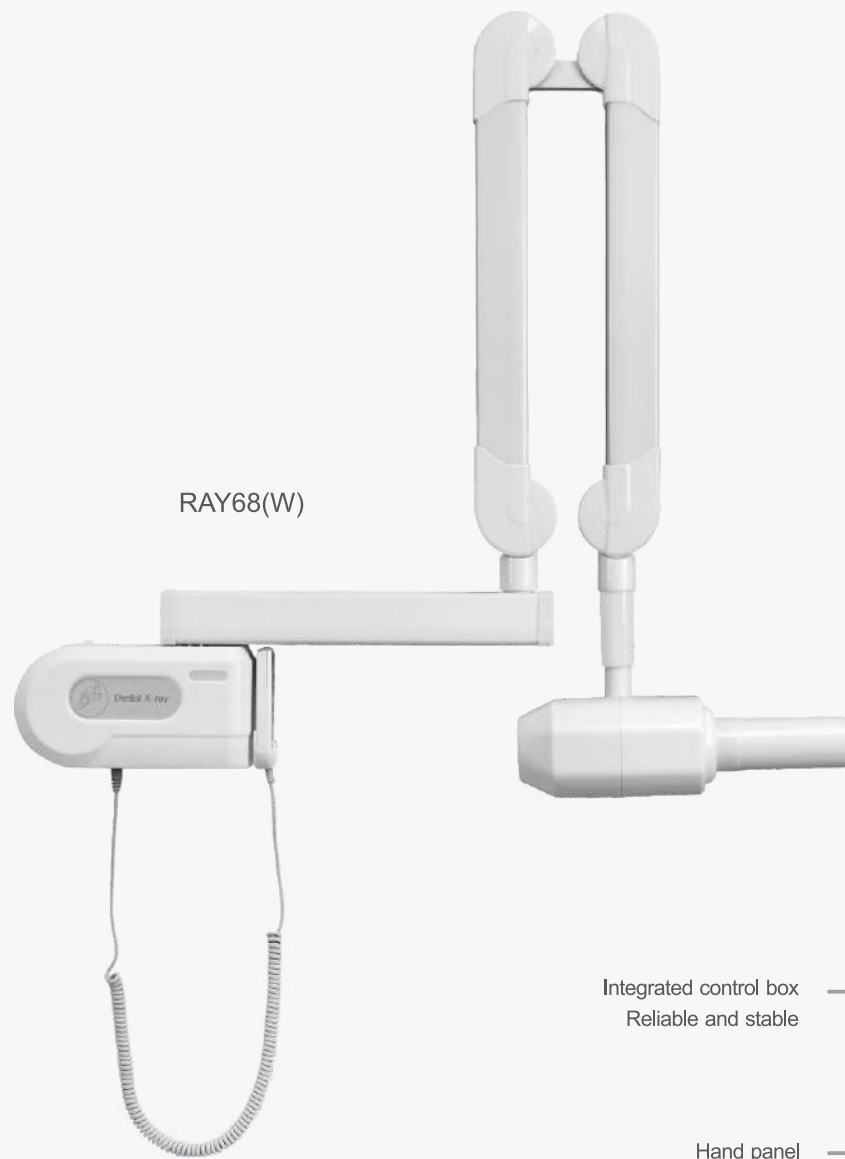
➞ Special-designed Telescopic Arm

It is easy to take images without patient leaving the treatment table.

Parameters Instruction

Power Voltage:AC 230V	Bulb Tube:CANON	Duty Cycle:1/30
Frequency:50/60Hz	Ray Focal Spot:0.7mm	Half Value Layer:70Kv 1.6mm Al
Maximum Power:900VA	Bulb Tube Voltage:70KV ± 10%	Inherent Filtration:≥ 2.1mm Al
Electricity:4A	Anode Current:7mA ± 20%	Leakage Radiation:1meter ≤ 0.14mGy/h
Fuse:6.3A	Anode Angle:16°	Time Of Exposure:0.06—2.0s

Perfect
Your Clinic



RAY68(W)

The telescopic arm can be operated at a large angle, The head can rotate 370° on the horizontal plane Meet the shooting needs of various angles

Integrated control box
Reliable and stable

Hand panel
Anti-drop design

Convenient hand control operation setting
Intelligent exposure parameters



RAY68(W)-2.0

New generation control box,
With integrated operating system

CAN ALSO SHOW EVEN IN SMALL ROOM

The launch of RAY68(W) and RAY68(W)-2 gives users more choices, abandoning the inherent base, installing them on the wall, matching perfectly with the clinic, and making greater use of space.

The Industrial Frequency Series Adopt The Original Japan-Imported Canon Tubehead

Precise time control: Microprocessor technology accurate the exposure time to 0.01s and with digital display, it can immediately give the alarm with fault code display function, parameters can be reset and reserved to the digital shooting mode, compatible with any brand of digital sensor.

Perfect
Your Clinic

Parameters Instruction		
Power Voltage:AC 230V	Bulb Tube:CANON	Duty Cycle:1/30
Frequency:50/60Hz	Ray Focal Spot:0.7mm	Half Value Layer:70Kv 1.6mm Al
Maximum Power:900VA	Bulb Tube Voltage:70KV ± 10%	Inherent Filtration:≥ 2.1mm Al
Electricity:4A	Anode Current:7mA ± 20%	Leakage Radiation:1meter ≤ 0.14mGy/h
Fuse:6.3A	Anode Angle:16°	Time Of Exposure:0.06—2.0s

DC
X-Ray Series



DC X-Ray

GORGEIOUS
UPDATE



Break Through
The Barriers Of Industrial Frequency





Ergonomic design
Leather wrapped backrest

Leather wrapped patient seat,
Free height adjustment meet
the needs of different patients

The mobile model adopts
imported universal wheels,
which is convenient to
move

LOW RADIATION HIGH RESOLUTION IMAGING

The new generation of Runyes high-frequency X-ray machine, the combination of products and technology provides high-quality imaging while reducing radiation, providing a safer experience for doctors and patients.



CORE ADVANTAGES OF HIGH FREQUENCY SERIES

- Novel design, perfectly match with your clinic.
- Adopting the method of “voltage preset and feedback adjustment”, with high control accuracy.
- Adopting closed-loop control, anode voltage (kV) and anode current (mA) will not be affected by input voltage fluctuations and are relatively stable.
- High-frequency dental X-ray machines can eliminate soft radiation, operators and patients will suffer less radiation dose.
- The high frequency machine has stable output spectrum, with less scattered X-rays and clear images.

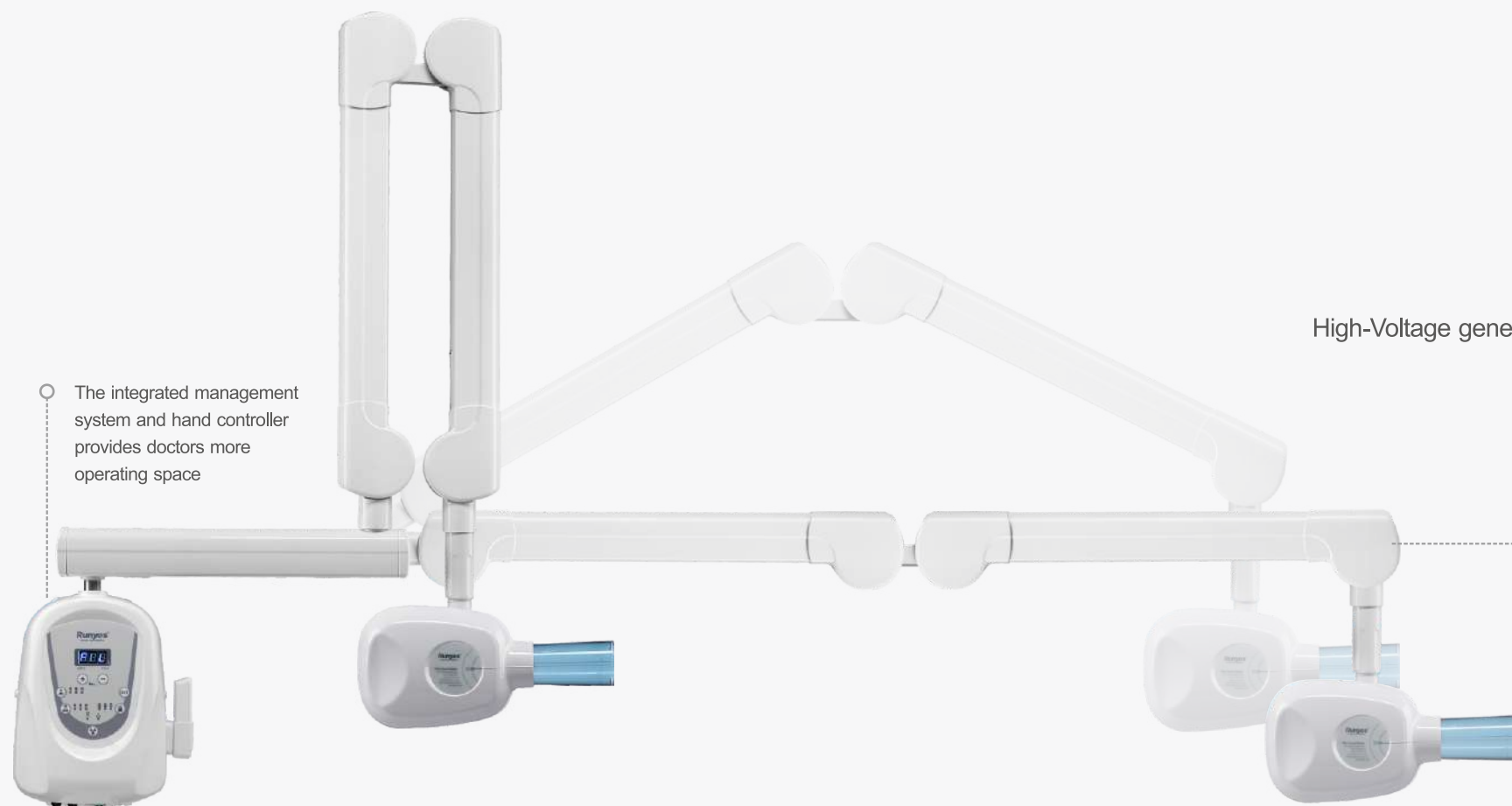
Parameters Instruction		
Power Voltage:AC 230V	Bulb Tube:CANON D-045	Duty Cycle:1/30
Frequency:50/60Hz	Ray Focal Spot:0.4mm	Half Value Layer:65Kv
Maximum Power:1100VA	Bulb Tube Voltage:65KV ± 10%	Inherent Filtration: ≥ 2.1mm Al
Electricity:5A	Anode Current:7mA ± 20%	Leakage Radiation:1meter ≤ 0.14mGy/h
Fuse:10A	Anode Angle:12.5°	Time Of Exposure:0.01—2.0s

DC X-Ray

Canon 0.4 Micro Focus
High-Voltage generator adopts Japan imported tube
Strong power adaptability

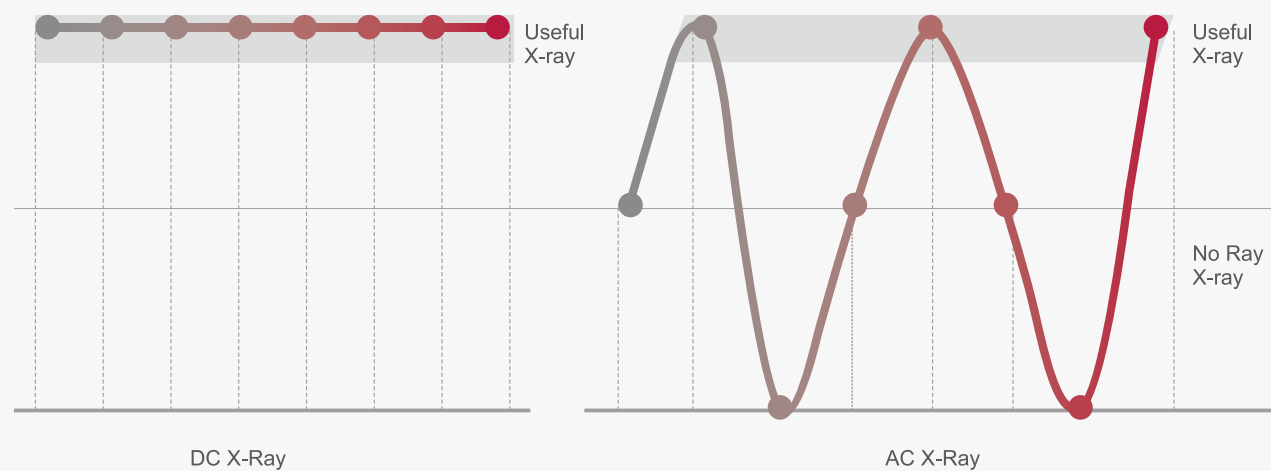
EASY CONTROL

- Ergonomic design
- More comfortable to operate
- Fast and accurate positioning



Waveform Comparison

Voltage / Radiation



(More distinctive characteristic waveform contrast)

30%

Exposure Time Reduced by

90%

Soft Rays Reduced by

120%

Imaging Quality Improved by

Parameters Instruction		
Power Voltage:AC 230V	Bulb Tube:CANON D-045	Duty Cycle:1/30
Frequency:50/60Hz	Ray Focal Spot:0.4mm	Half Value Layer:65Kv
Maximum Power:1100VA	Bulb Tube Voltage:65KV ± 10%	Inherent Filtration: ≥ 2.1mm Al
Electricity:5A	Anode Current:7mA ± 20%	Leakage Radiation:1meter ≤ 0.14mGy/h
Fuse:10A	Anode Angle:12.5°	Time Of Exposure:0.01—2.0s



PORTABLE
HIGH-FREQUENCY
X-RAY

Imaging in Hand



○ Simple & Elegant Design

○ Recessed power button
Avoid accidental touch

○ 7cm beam limiting cone
ensuring clear images

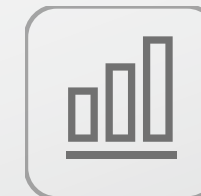
○ Comfortable key pressing
strong rebound and durable

SMALLER SIZE, BUT WITH UNCHANGED EXCELLENT IMAGE

The compact hand-held design makes you free.
Single hand operation.
Without the shackles power cord.



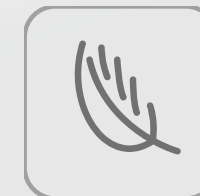
Easy Operation



More applicable



Clear image



Portable use

DETAIL DISPLAY



○ Replaceable battery with long service life
Can be used 150 times after fully charged

○ Large screen
clearly display

○ With length adjustable leather grip belt
Convenient and comfortable



Optional



6 Product Features

A true high frequency chairside X-ray machine, ensures less radiation for the patient & operator.

Compact & single handed operational device.

2mA tube current, combines higher performance and higher definition imaging.

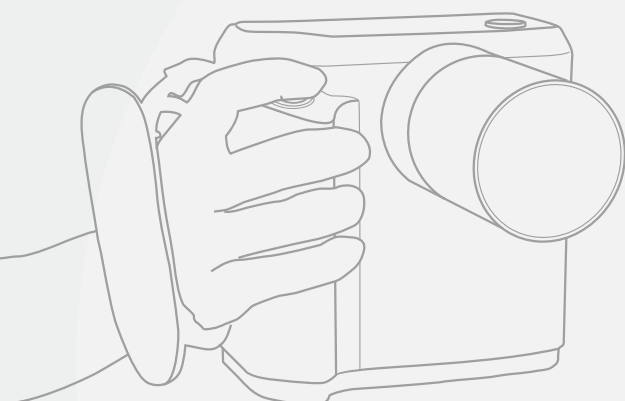
Adopt canon micro focus tube with focus 0.4mm, anode angle of 12.5°.

Digitalised control machinery provides accuracy & stability.

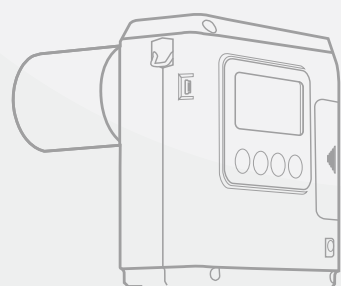
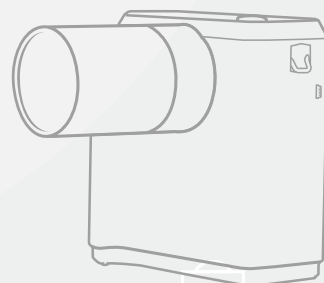
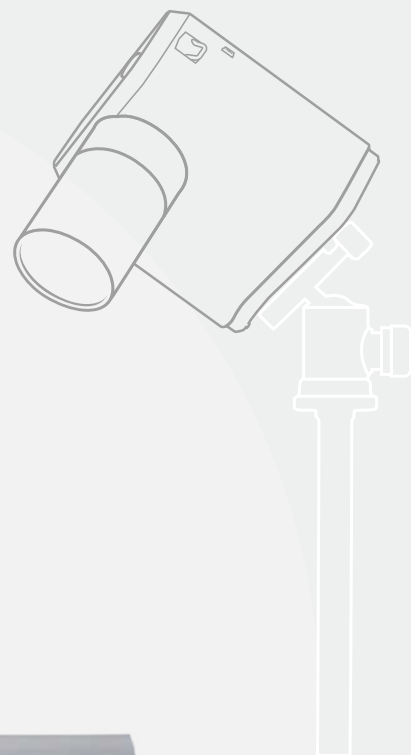
Wide digital display for easy operation.

EASY TO HOLD

DETAIL
DISPLAY



There is a coarse thread with a large diameter of 1/4 inch and a pitch of 20 threads/inch at the bottom, which is suitable for almost all tripod brackets on the market.



BREAKTHROUGH TRADITION
**DUAL OPERATION
WITH ONE UNIT**

Customized portable X-ray machine fixing bracket, portable high-frequency X-ray machine can be fixed on the chair side for imaging, and it can also be detached and handheld for independent operation. It is easy to be disassembled and installed.



Parameters Instruction

Model: RAY98 (P)
Tube Voltage: 70kV±10%
Tube Current: 2mA±20%
Charge input Voltage: 100V-240V
Frequency: 50Hz-60Hz
X- Tube: CANON D-045
Anode Angle: 12.5 °
Focus: 0.4mm
Exposure Time Range: 0.04s -2.0s
Leak Emissivity: 1 meter 0.25mGy/h
Machine Weight: 1.7kg
Relative Humidity: 30%RH~75%RH

1.3
FOR
FULL
IMAGE

15 Years
Dental X Ray
Imaging Experience



DS530

Dental Imaging System



Comfortable Experience With Full Tooth Imaging



Full-Tooth Imaging



APS CMOS Sensor

5 Core Advantages



High-Definition Imaging



IPX7



Powerful Software

HD Imaging



1.3 For Full Image

According to research data, the average height of the global molars is 22mm.

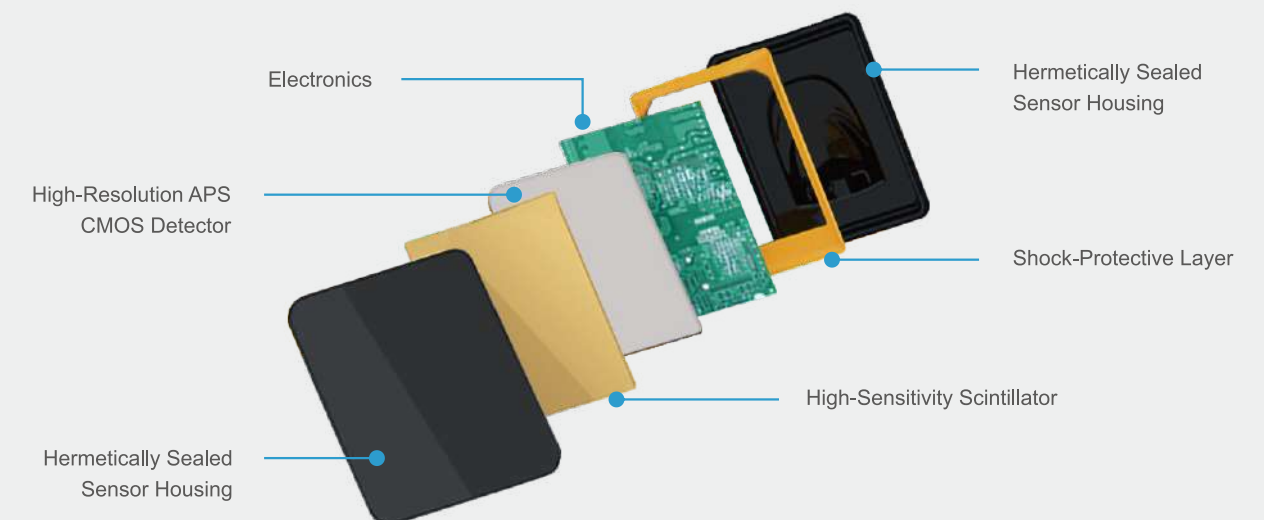
In order to make the product closer to patients and doctors, and to create the best palatability, We continue to explore the unknown until the arrival of DS530 size 1.3.

The superiority of Size1.3 perfectly solves the short comings of Size1 and Size 2 on the market.

Whatever you are an adult or a child, you can enjoy the comfort and convenience of a digital oral dentistry just with a DS530 sensor



Powerful Functions

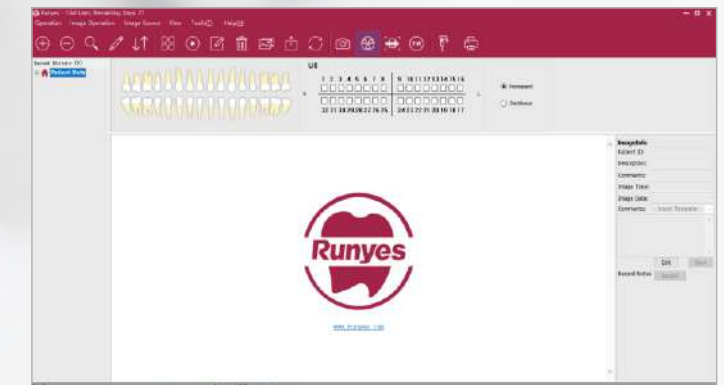
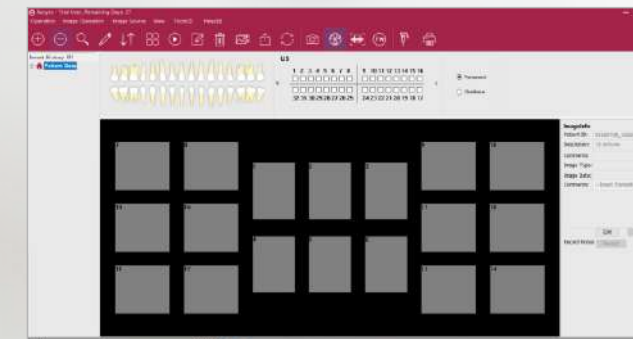


Super Toughness

Tens of thousands of tests have been carried out according to the actual use, and the product has super toughness and durability.



Powerful Image Management Software



High Adaptability

Available For Liquid Disinfectant Immersion

The sensor is tightly stitched
Repeated verification by engineers
Reach IPX7 waterproof level
Can be disinfected with immersion
Avoid secondary cross infection



Compatibility

Applicable for almost
all x-ray machines on the market

Technical Specification

Model	DS530
Chip Type	APS CMOS
Pixel Size	18.5um
Dimension	39×28.5×6mm
Active Area	30×22.5mm
Active Pixel Array	1600×1200mm
Image Pixel	1604×1204mm
Voltage (through USB connection)	5.0V±0.5V
Electricity Curent(through USB connection)	≤500mA
Power	≤1W
Digitization	12/14/16 bit
Imaging Time	3~4s
Resolution	27lp/mm
Signal Output	USB