



青岛中联海诺医疗科技有限公司
Qingdao Zhonglian Hainuo Medical Technology Co.,Ltd.

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性能特点

- 图像清晰，高效率，采用国际先进技术。
- 低辐射，漏射线量仅为国家规定的百分之一。
- 轻触按键，微电脑控制，只需一次按键即可迅速准确地确定曝光参数。
- 操作简单。
- 明室冲洗，一分钟成像，立即用于诊断，最大程度方便医生诊断。
- 气动可升降座椅，更方便更舒适。
- 可用于口腔数字成像系统。

Features

- Use the international advanced technology,high - efficiency,clear imaging
- Low leak radial,is only 1% of national standard
- Light touched button, controled with microcomputer,only press one button to select the exposue parameter,fast and accurately
- Developing in light room,image in one minute,the doctor can diagnose conveniently for maximum
- Pneumatic up - down seat,more convenient and more comfortable

技术参数

电源条件	AC220V ± 10%， 50Hz， 1kVA
管 电 压	60kV
管 电 流	8mA
焦点尺寸	1.5mm/0.8mm
总滤过	2.5mmAL
曝光时间	0.2-4s
泄漏辐射	1 米外 ≤ 0.002mGy/h（ 国家标准为 0.25mGy/h）

Specification

Power supply	AC220V ± 10%， 50Hz， 1kVA
Tube voltage	60kV
Tube current	8mA
Focus size	1.5mm/0.8mm
Total filtration	2.5mmAL
Exposure time	0.2-4s
Leak radiation	Outside one meter ≤ 0.002mGy/h(National standard: 0.25mGy/h)



性能特点

□ 国际水准的高频技术，自动全面的保护措施，灵巧稳固的结构，简洁明快的设计造就了国际水准新一代高频牙科 X 射线机。

工频、高频牙科 X 射线机成像效率对比图：
Power frequency and high frequency dental X-ray machine imaging efficiency comparison figure:

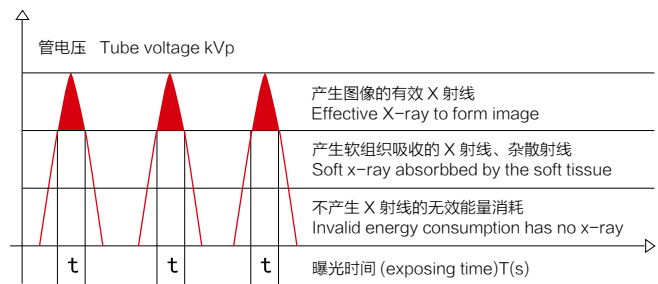


图 1：传统工频 X 射线机
traditional power frequency dental X-ray Unit

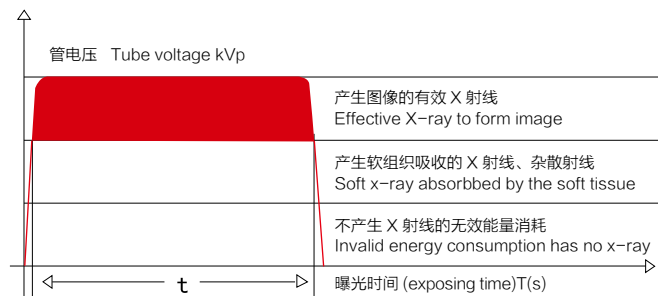


图 2：高频 X 射线机 high frequency X-ray Unit

技术参数

管 电 压	70KV
频率	200kHz
曝光时间	0.02~4s
电源	220VAC 50HZ
管电流	8mA
焦点	0.4mm (东芝D-045)
泄漏辐射	≤ 0.025mGy/h

Features

□ With international level high frequency technology, automatic protective measures, smart and stable structure and succinct design, the high frequency dental X- ray Unit is an international level new generation production.

高频牙科 X 射线机与传统工频牙科 X 射线机的优缺点比较
The merit of high frequency X-ray Unit comparing with the traditional power frequency dental X-ray Unit :

从左图中可以清楚看到：
工频牙科 X 射线机曝光时，加在 X 射线管两端的电压按 50HZ 的频率不断变化，产生的有效射线少，成像效率低，成像质量差。而且在曝光过程中，产生大量散杂射线及易被人体吸收的软射线，造成图像模糊，影响医生正确诊断，并对工作人员造成很大伤害。
高频牙科 X 射线机曝光时，经过变频、整流等过程，加在 X 射线管两端的电压很稳定，产生的有效射线多，成像效率大大提高，成像质量好。而且在曝光过程中，几乎不产生散杂射线及软射线，对工作人员没有伤害。

We can easily found from the left figures that:
When power frequency dental X-ray machine exposure, the voltage of two sides of the x-ray tube at 50HZ changing, produce less effective radiation, low efficiency of imaging, the image quality is poor. In the process of exposure, produce large stray radiation and soft ray easy to be absorbed by human body, cause the image blur, Influence the correct diagnosis of the dentists, and cause great harm to users.
When high frequency dental X-ray machine exposure, through inverter, rectifier process, the voltage of two sides of the x-ray tube is stable, produce more effective radiation, the imaging efficiency greatly improved, good image quality, and in the process of exposure, almost do not produce soft X-ray and stray radiation, no damage to users.

Specification

Tube Voltage	70KV
Frequency	200kHz
Time of Exposure	0.02~4s
Power	220VAC 50HZ
Tube Current	8mA
Fucus Size	0.4mm (TOSHIBA D-045)
Radiation Leakage	≤ 0.025mGy/h



性能特点

- 引进国外先进技术，高效集成设计，高效率，低辐射。采用微电脑智能化控制，可遥控曝光。更具有低电压报警，高电压保护的超强功能。
- 微焦点技术，影像更清晰，诊断更准确。
- 机架具有移动、固定两种模式，气动升降座椅，保证医生更方便，客人更舒适。
- 可选明室冲洗牙片，一分钟成像，最大程度上方便医生诊断。
- 可连接口腔数字成像系统。

Features

- Using the international advanced technology,efficient integrated design,high efficiency,low radiation.
- Using microcomputer intelligent control,not only remote controlled exposure,but more powerful function of low voltage alarm and high voltage protection.
- Micro focus technology,much more clear image and accurate diagnosis.
- The base has two modes of mobile and fixed , pneumatic lift seat ensures more convenient for dentist and more comfortable for patient.
- Can use lightroom dental film,imaging in one minute,maximum convenient dentist to diagnose.
- Can connect to dental digital imaging system,that is indispensable for clinicians to diagnose and root canal filling.

技术参数

电源条件	AC220V ± 10%,50HZ,1KVA
管 电 压	70KV
管 电 流	8mA
焦点尺寸	1.5mm/0.8mm
总滤过	2.5mmAL
曝光时间	0.2-4s
泄漏辐射	1 米外 ≤ 0.002Mg/h (国家标准 :0.25Mg/h)
包装尺寸	主机 144 × 50 × 27(cm)
净重	主机 50kg

Specifications

Power supply	220V ± 10%,50HZ,1KVA
Tube voltage	70KV
Tube current	8mA
Focus size	1.5mm/0.8mm
Total filtration	2.5mmAL
Exposure time	0.2 - 4s
Leak radiation	outside one meter ≤ 0.002Mg/h(national standard:0.25Mg/h)
Package size	144 × 50 × 27 (cm)
Net weight	50kg



技术参数

电源条件	AC220V ± 10%,50HZ,1KVA	总滤过	2.5mmAL
管电压	70KV	曝光时间	0.2 - 4s
管电流	8mA	泄漏辐射	1 米外 ≤ 0.002Mg/h (国家标准 :0.25Mg/h)
焦点尺寸	1.5mm/0.8mm	纸箱包装尺寸	98 × 32 × 45 (cm)
净重	27kg	毛重	35kg

性能特点

- 引进国外先进技术，高效集成设计，高效率，低辐射。
- 采用微电脑智能化控制，可遥控曝光。更具有低电压报警，高电压保护的超强功能。
- 数字化触摸按键，操作简单，只需一次按键即可迅速准确地确定曝光参数。
- 微焦点技术，影像更清晰，诊断更准确。
- 使用范围广，节省更多空间，使用更加方便。
- 可选明室冲洗牙片，一分钟成像，最大程度上方便医生诊断。
- 可连接口腔数字成像系统。

Features

- Using the international advanced technology,efficient integrated design,high efficiency,low radiation.
- Using microcomputer intelligent control,not only remote controlled exposure,but more powerful function of low voltage alarm and high voltage protection.
- Micro focus technology,much more clear image and accurate diagnosis.
- Wide use,save more space,more convenient to use.
- Can use lightroom dental film,imaging in one minute,maximum convenient dentist to diagnose.
- Can connect to dental digital imaging system,that is indispensable for clinicians to diagnose and root canal filling.



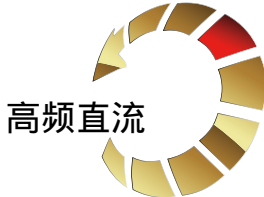
Specifications

Power supply	AC220V ± 10%,50HZ,1KVA	Total filtration	2.5mmAL
Tube voltage	70KV	Exposure time	0.2 - 4s
Tube current	8mA	Leak radiation	outside one meter ≤ 0.002Mg/h (national standard:0.25Mg/h)
Focus size	1.5mm/0.8mm	Package size	98 × 32 × 45 (cm)
Net weight	27kg	Rough weight	35kg

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以下颜色可供选择



技术参数

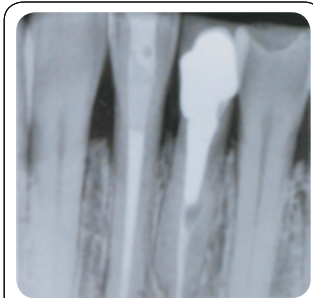
管电压	60KV	管电流	2mA
曝光时间	0.2 - 3.2s	频率	200KHz
管焦点	0.4mm × 0.4mm	焦皮距	130mm
电池	DC14.8V 6600mAh	额定功率	90W
充电输入电压	AC100V - 240V ± 10%	输出电压	DC16.8V
环境温度	5 - 40	相对湿度	<75%RH
净重	2.5kg	毛重	4.8kg
包装尺寸	330 × 310 × 230 (mm)		

性能特点

- 该设备为直流高频便携式口腔 X 光机，体积小，重量轻，低剂量。
- 设备外壳表面有手动按钮，操作简单。所有组件集中安装在中央电脑主板上，绝缘真空、密封保护的构造使得机器性能更加卓越。
- 该设备有利于口腔治疗前对牙齿内部组织结构和根深等的诊断，是日常临床诊断不可缺少的，特别是口腔种植术方面。
- 电池使用寿命长，经久耐用。充满一次电可拍 500 张牙片，可完整充放电 1000 次。
- 可连接口腔数字成像系统。

Features

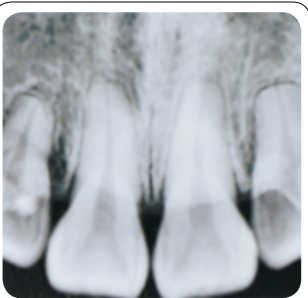
- The device is DC high frequency portable dental x-ray unit,small,light and nearly no radiation.
- There are manual buttons installed on the surface of shell,operate easily.All of the components are installed in the central PC board,insulation vacuum and sealed stereotype protection make its brilliant features.
- The unit mainly suitable for oral pre-treatment diagnosis of internal organization structure and root depth and so on,is indispensable in daily life clinic,especially for dental implant surgery.
- The battery is durability,it can take about five hundred images after full charged ,and it can be charged and discharged for one thousand times in its life.
- It can be connected with intra - oral digital x-ray imaging system.



尖牙



磨牙



前牙



种植体

Specifications

Tube voltage	60KV	Tube current	2mA
Exposure time	0.2 - 3.2s	Frequency	200KHz
Tube focus	0.4mm × 0.4mm	Focal spot to skin distance	130mm
Battery	DC14.8V 6600mAh	Rated power	90W
Charger input voltage	AC100V - 240V ± 10%	Output voltage	DC16.8V
Ambient temperature	5 - 40	Relative humidity	<75%RH
Net weight	2.5kg	Gross weight	4.8kg
Package size	330 × 310 × 230 (mm)		



技术参数

管电压	60KV	管电流	2mA
焦点尺寸	0.4mm × 0.4mm	频率	200KHz
曝光时间	0.2 - 3.2s	充电电压	AC100V - 240V 50/60Hz
电池	14.8V 6600mAh	泄露辐射	1 米外 ≤ 0.002mGy/h
焦皮距	140mm	净重	2.6kg
包装尺寸	280 × 270 × 250mm	毛重	5.0kg

性能特点

- 体积小，重量轻，便于携带
- 带记忆功能，只需一次曝光，便可永久记忆曝光参数
- 带背光液晶屏显示，各种功能一目了然
- 轻触按键，智能控制，便于操作
- 高频率电源，低辐射，造型美观
- 明室冲洗，一分钟成像，立即用于诊断
- 可用于口腔数字成像系统

Features

- Small size,light weight,portable
- Memory function,just once exposure,can memory exposure parameters forever
- LCD screen,all function could see clearly
- Tact switches,smart control,convenience operating
- High frequency power supply,low radiation,handsome appearance
- Developing in light room,image in one minute,be used for diagnoses at once
- Be use of the intraoral cavity digital imaging system



Specifications

Tube voltage	60KV	Tube curren	2mA
Focus size	0.4mm × 0.4mm	Frequenc:	200KHz
Exposure time	0.2 - 3.2s	Charge voltage	AC100V - 240V 50/60Hz
Battery	14.8V 6600mAh	Leak radiation	Outside one meter ≤ 0.002mGy/h
Focal spot to skin distance	140mm	Net weight	2.6kg
Package size	280 × 270 × 250mm	Gross weight	5.0kg



性能特点

- 圆角设计，舒适病人。
- 无需连接控制盒，USB 直接插拔。
- 背端出线不易折断。
- 按照牙位选择摄影部位程序
- 简洁的病人电子档案管理系统。
- 可匹配进口及国产 X 光机。



Features

- The sensor has been designed according to the oral cavity shape of patient,its rounded corner and smooth edges make patient comfortable and dentist easy to position.
- The embedded electronics design makes everything located in the sensor case,no need to find a place for the controller box,just need to plug the USB connector of the sensor in the computer,easy and convenient.
- The sensor operated in USB2.0 full speed mode,CMOS technology coupled with a theoretical resolution of 26.3lp/mm , the high resolution image will instantaneously appear on the computer screen after exposure.
- Select exposure program according to the teeth,has functions of magnifying the image to review,measuring the length,area,angle of the image and so on..Also with patients' records management system.

技术参数 Specifications

外型尺寸 (External dimension)	39.5mm × 26.0mm	有效范围 (Active surface)	30.0mm × 20.0mm
技术特征 (Technology)	CMOS	灰度 (Grey scale)	4096 (12 比特)
理论分辨率 (Theoretical resolution)	26.3lp/mm	真实分辨率 (Real resolution)	>20lp/mm
像素 (Pixel size)	20 μ m	像素矩阵 (Pixel matrix)	1006 × 1500
接口 (Interface)	USB2.0	USB 线长度 (USB cable length)	3 米



PSP 影像扫描器
Imaging System

性能特点

- 精巧的桌上设计。
- 迅速显示高解析扫描影像。
- 无需冲洗胶片的繁复过程，省下耗材费用。
- 自动清除成像，PSP 片可重复使用。
- 提升诊所电子数位化诊疗的价值。

Features

- Elaborate design to put on the dest.
- Display high resolution scanning image quickly.
- Without the repeated process of developing films,save the cost of consumables.
- Clear the image automatically,PSP can be reused.
- Promoting the digital diagnosis and treatment value of the clinic.

技术参数 Specifications

电压 (Power)	AC100 - 240VAC , 50/60Hz	扫描时间 (Scanning time)	10secs
解析度 (Resolution)	CMOS	传输方式 (Transmission)	USB2.0
灰阶 (Gray level)	26.3lp/mm	尺寸 (Size)	258mm × 138mm × 183mm



JYF-10P
牙科 X 射线机
Portable Dental X - RAY Unit



口腔数字化成像系统
Intra - oral digital X - RAY
imaging system



JYF-10B
壁挂式牙科 X 射线机
Dental X - RAY Unit



JYF-10D
牙科 X 射线机
Dental X - RAY Unit

[HN - 05 口腔 X 光机胶片自动洗片机] X-RAY FILM PROCESSOR

CE
2460

性能特点

- 该设备采用微电脑程序控制，自动冲洗、自动出片的性能。
- 本机为挂墙式洗片机。
- 明室操作、体积小、噪音低、操作简便和快捷。
- 完成多种尺寸口腔胶片的冲洗处理，冲洗时间为 2-8 分钟，可根据 X 光机曝光时间调整。
- 可使用 2x3、3x4 或 2.7x3.4cm 多种胶片。
- 药液过期指示功能，方便客户及时更换洗片液。

Features

- The device adopts design of foreign advanced model advantages, using micro-computer control, washing and film output.
- The device is wall mounted.
- Light room operation, small volume, save space, low noise, operation easy and fast. Replace the cumbersome process of traditional hand-washing film, which overcome problems of low speed and instable quality.
- Developing various oral films in 2-8 minutes, and it can be adjusted according to the exposure time.
- Can use various films size 2x3, 3x4 or 2.7x3.4cm.
- Indication function of liquid expire date, the device is equipped with memory disk of liquid replaced date, convenient the customer to replace liquid timely.



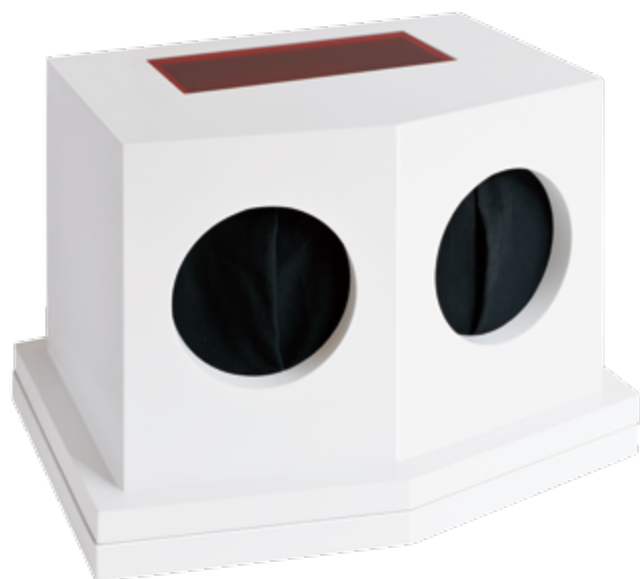
[HN - 06 袖珍暗箱] Dark Box

性能特点

- 用于各种型号牙片及咬合片（不含全景片）的暗室冲洗操作。箱内遮光性强，能够达到暗室效果。设备轻巧，便于拜访及携带。
- 内含 3 个水杯，用于依次盛放显影液、定影液、清水。液体应高于待冲洗的牙片、咬合片等。

性能特点

- It is suitable for the development of all sizes of dental films and occlusive films (not include panoramic films). It instead of darkroom because of the shield against light. The box is light weight, convenient placement and carrying.
- There are 3 cups in the box, put the developer, fixer and clear water in turn, the liquid height should over the height of the films.



[牙片系列] 高速明室牙片 / E 速牙片 / 咬合牙片 / DENTAL X-RAY FILMS

Hainuo



高速明室牙片

- 不需要暗室暗箱条件的注射式冲洗牙片，显定影同时进行，操作简单，冲洗时间快。
- 包装一 50 片 + 250ml 药液
包装二 100 片



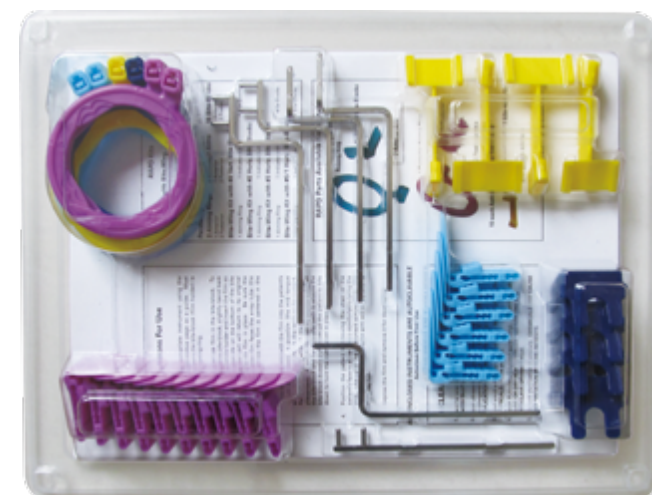
数码定位器

- 用于数字传感器，可根据传感器的大小进行调节。
- 多能型定位器，可以用于咬翼拍摄。



High Speed Inject able Film

- The inject able films do not need the special develop condition as the dark room or dark box, it can be developed and fixed at the same time, Operation is easy, Development is fast.
- 50 pieces + 250ml
100 pieces



Sensor Positioner

- It is suitable for digital sensor, it can be adjusted according to the size of digital sensor.
- Multi-function Positioner, it can be used for bite wing films.

可选颜色

- 1# 
- 2# 
- 3# 
- 4# 
- 5# 
- 6# 
- 7# 
- 8# 



反穿铅胶衣（单面）
Lead Coat Apron



正穿铅胶衣（双面）
Lead Rubber Jacket



防护裙（单面）
Lead Apron



高级坎肩式围裙
High-collar Waistcoat Apron



儿童防护
Children Protective



防护巾
Protective Scart



铅胶帽
Protective Cap

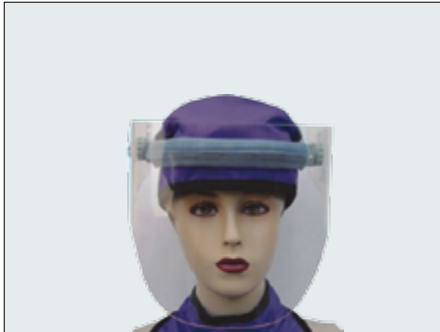


铅围领
Protective collar



防护裤头
Protective underpants

Http: //www.qdylqx.cn



防护面罩
Protective mask



连体型防护帽
Protective cap



防护手套
gloves



防护屏
Lead screen



摄影室
Photographic studio



床边防护帘(折叠式)
Bed-type protective(foldable)



射线剂量仪
Dosimeter



防护眼镜
lead Spectacles



防护眼镜
lead Spectacles