



## FireCR Dental Reader

The full-featured FireCR Dental Reader from DIGIRAY rapidly and affordably delivers high-quality digital images for busy dental practices, optimizing chairside time with patients.

### Experience the Benefits of FireCR Digital Imaging

#### HIGHLIGHTS

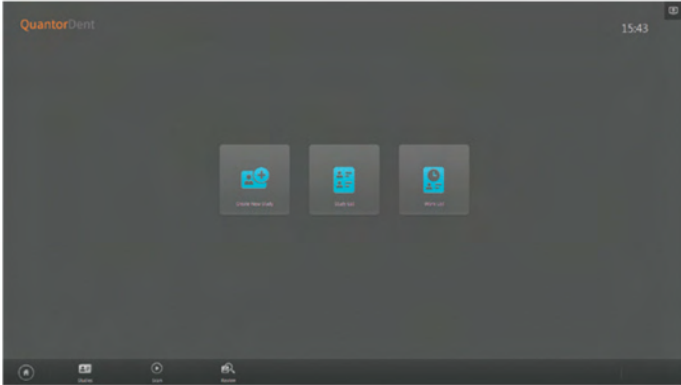
- High image quality & distinct design
- Outstanding durability & fast transfer speed (4.1 to 7.2 sec)
- Flexible image plates (IPs) in various sizes (0, 1, 2, 3, 4c)
- Long IP lifecycle, thanks to the reader's non-contact scanning method
- Built-in erase function
- Affordable & compact dental solution
- Supports both Ethernet & USB connections
- Auto-calibration ensures stability & consistency





# User-Friendly Workflow

The intuitive HERA Dent Imaging Software offers the features and functionalities needed by busy dental clinics using Digiray FireCR Dental PSP Readers. The user-friendly workflow guides users through the diagnostic process.



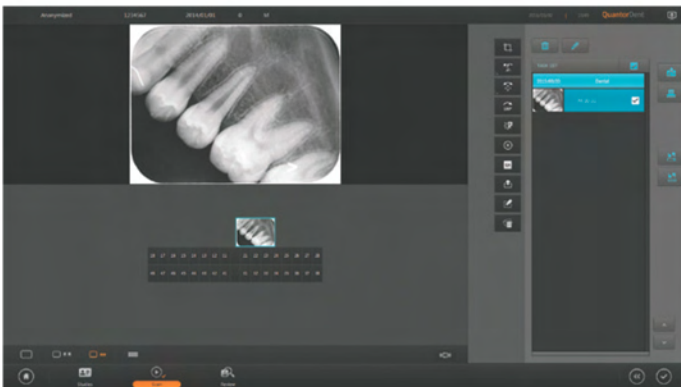
## Main Menu

The clear overview lets you quickly select between creating a new study, accessing existing studies or worklists.



## Create New Study

Fill in patient data or use the emergency auto-fill. Touch-screen keyboard can be enabled.



## Scan

After just a few seconds, the image appears. Edit images and arrange them in various dental templates.



## Review Menu and Multi Image View

Review images using e.g. measurement tools and annotations. Compare images side-by-side.

## HERA Dent

- Dental Templates
- Embedded Viewer
- Window-Width/-Level Adjustments
- Multi Frequency Image Processing
- Cropping and Marking
- User Defined LUT
- DICOM Send
- DICOM Print
- CD/DVD Burning

## Embedded Viewer

- Conventional Image Manipulation
- Zoom, Pan, Rotate, Flip and Invert
- Compare Studies
- Distance and Angle Measurements
- Change Study and Image Layout
- Save Annotations and Measurements
- Export Image File Format: DICOM, TIFF, BMP, JPEG
- Print on DICOM and Regular Printers



# FireCR Dental NTM & AI Advice-Support System

Through technological convergence and development, Digiray offers a new paradigm to dentistry. Digiray hopes to make dental diagnosis faster and more accurate, providing better service for the patients.

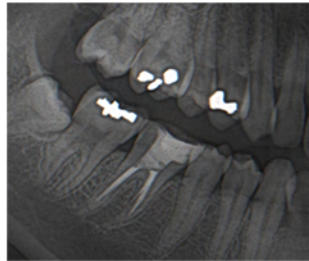
## Unrivalled

FireCR Dental NTM  
N-Tuple Energy Method

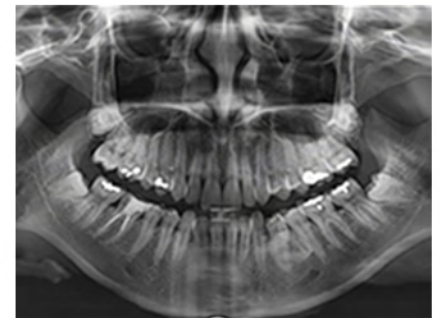
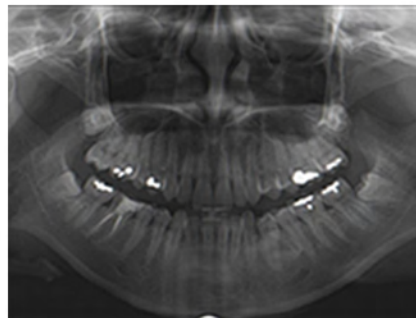
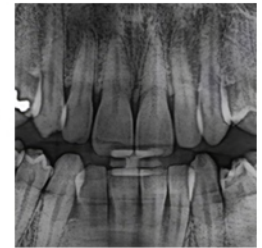
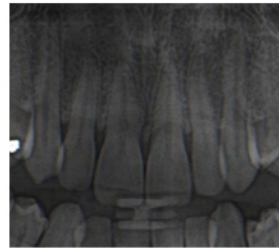
Dramatically improves image  
quality of x-ray images.

- Improves Resolution by 4 times
- Low Cost, Highly Efficient
- Smart Processing using Deep Learning

<Before>



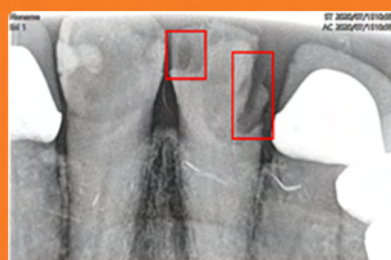
<After>



## Pioneer

FireCR Dental AI  
Advice-Support System

- Facillated Diagnosis
- Fast & Accurate Detection
- Optimized Patient Workflow







## Software & Accessories



### Easy-to-Use Imaging Software

HERA Dent Imaging Software optimizes image acquisition and management, and is based on DIGIRAY's pioneering HERA Software technology. The easy-to-use software supports efficient workflow and requires little training. To ensure that scans are arranged in their precise locations, the operator simply assigns the relevant tooth to the dental chart in the software.



### Hygienic Bags

Hygienic bags, also included with the unit, help protect the imaging plates, as well as patients and staff. The bags are easy to use - loading, sealing, and opening are simple and quick.



### Imaging Plates

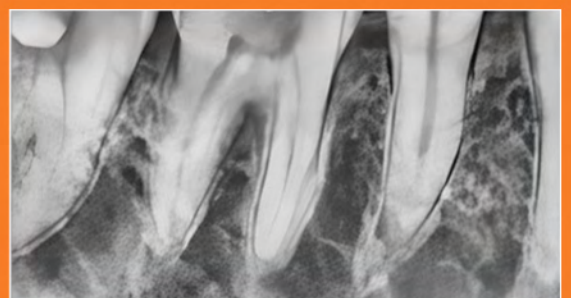
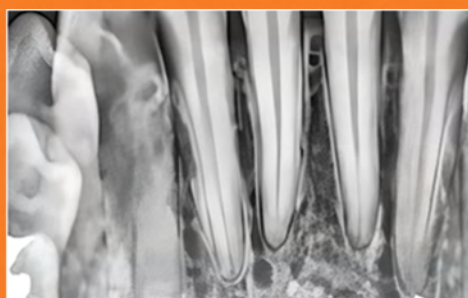
A set of the most frequently used imaging plates is included with the unit. In addition, a full range of imaging plate sizes is available, including 0, 1, 2, 3, and 4c.



### Protective Cover

Protects photosensitive surface  
Convenient Design  
Blocks UV ray exposure  
Compatible with other phosphor plates

## FireCR Dental Reader delivers High quality images





# Network Options

You can use the FireCR Dental in several different setups, depending on your clinic's size, volume and budget. A basic setup can be scaled up as the clinic grows.

The setups are enabled by different modes of operation, e.g. the HERA Software or via a 3rd party software by TWAIN\*.

## A USB Connection

Connecting the FireCR Dental to a PC by USB is the basic method of use.

- Reader is always connected to PC
- Images go directly to the connected workstation



## B Multiple PCs : 1 Reader (n:1)

Whenever 1 FireCR Dental is available on the network, it can be controlled from any 1 workstation at the time.

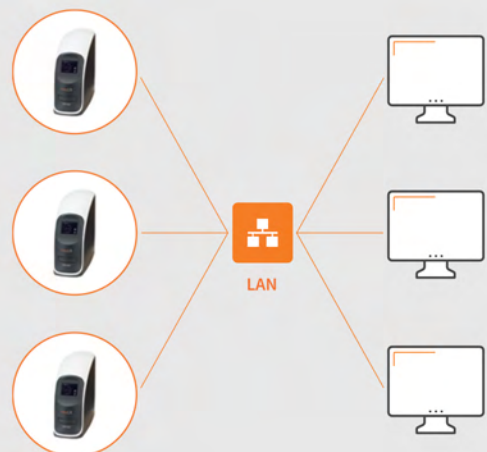
- Manually connect and disconnect the reader
- Optional FireID: Tag IPs using the FireID for a smoother workflow and increased patient data security



## C Multiple PCs : Multiple Readers (n:n)

Several FireCR Dentals can be used simultaneously by any number of PCs on the network, using a FireID.

- FireID is mandatory
- Image is automatically delivered to the PC on which the IP was tagged





# Why DIGIRAY?

We are the innovator that leads the global imaging market by constantly offering cutting-edge technologies. By choosing to work with us, you will enjoy the best imaging solutions in the market together with the incomparable technical support.

## SPECIFICATION

Supported IP Sizes	Size	Standard	High
	0 (22 x 31 mm)	343 x 484 pixels	628 x 885 pixels
	1 (24 x 40 mm)	375 x 625 pixels	685 x 1143 pixels
	2 (31 x 41 mm)	484 x 640 pixels	886 x 1171 pixels
	3 (27 x 54 mm)	421 x 843 pixels	771 x 1542 pixels
	4c (48 x 54 mm)	750 x 843 pixels	1370 x 1542 pixels
Selectable Pixel Size	High: 35µm • Standard: 64µm		
Sampling Pixel Pitch (35µm)	21lp/mm		
Readout time	4.1 ~ 7.2 sec		
Resolution	Data Capture: 16-bits per pixel, 65,000 graytones		
Eraser	Embedded		
Dimensions (H x W x D)	10,4" (H)" x 4,7" (W) x 12.5" (D) / 265 (H) x 120 (W) x 318 (D) mm		
Weight	12,1 lbs (5,5 kg)		
System Configuration	Tabletop		
Interface	USB 2.0 high speed (480 Mbps) / Ethernet (100 Mbps)		
QuantorDent Imaging Software	Image File Formats: DICOM 3.0, TIFF, BMP, JPEG • DICOM Send • Embedded Viewer Window Level • Multi Frequency Image Processing • Zoom, Cropping, Mark User Defined LUT • Supporting Dental Chart and Dentition		
Computer workstation minimum requirements	Intel Core Duo/Core 2 Processor • Min. 80 Gigabytes Hard Disk, 2 Gigabyte RAM • Windows 10, 7 and 8 (32-bit & 64-bit) NetCard (100 MBit), CD/DVD, 2 USB 2.0 ports • Monitor: 1,280x900 pixels, DVI Interface		
Power requirements	100 ~ 240V / 50 ~ 60Hz, 30W • UPS required		
Regulatory approvals	FDA 510(k) • CE(0120) • UL • FCC • KFDA • PMDA Japan		
Safety Standards	ISO13485 • ISO14971 • 93/42/EEC • EN60601-1 • EN60825-1		
Operating conditions	Temperature: 59-86 Fahrenheit (15-30 Celsius) • Temperature Gradient: 0.5 Deg. Celsius / Min. Humidity: 15%-95% RH • Magnetic Field: Max. 1260 Micro Tesla		

Specific Results may vary since operating conditions fluctuate

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## The FireCR Dental System basic set includes :

- FireCR Dental Reader,
- 2pcs \* size 0 imaging plates,
- 4pcs \* size 2 imaging plates,
- Imaging plate storage box,
- Hygienic bags size 0 and size 2,
- USB 2.0 interface cable, power cable
- HeraDent Imaging Software

Notes:



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