Improving Quality of Life

CUBEX 16

X-Ray System

for Medical

&

for Veterinary

CUBEX 24 & CUBEX 50

X-CUBE

X-Ray Grid

Radiography System

examvue — Software

Computed Radiography

Processor

X-Ray Accessories

RF Treatment

Diagnostics

CUBEX series

High frequency portable x-ray

- CUBEX 16
- CUBEX 24
- CUBEX 50

- We took the motive from Rubik's Cube when we decided on our product identity and name, **CUBEX**, which represents the wide range of creative solutions CUBEX brings as Rubik's Cube itself stands for wide range of creative solutions.

Compact Size

CUBEX 16
335(L) X 153(H) X 170(W)

CUBEX 24 & 50
360(L) X 200(H) X 190(W)

- Packing Size
  520 X 400 X 330mm

light Weight

Product Weight

8.6kg	CUBEX 16
13kg	CUBEX 24
13kg	CUBEX 50

- Simple design
- Soft touch controls with digital displays
- Calibrated cassette size indicator dials
- Inverted control panel for table use available
- Two stage dynamic, auto line compensation
- Easy integration with digital system
- Dual integrated laser pointer

CUBEX series | High frequency portable x-ray

Technical Specifications

		CUBEX 16	CUBEX 24	CUBEX 50
	Output Power	1.6kW	2.4kW	5kW
Input Power	Voltage	100V-120V / 220V-240V	100V-120V / 220V-240V	200V-240V
	Phase & Frequency	Single / 50 / 60 Hz	Single / 50 / 60 Hz	Single / 50 / 60 Hz
	Radiography kV Range	40kV ~ 90kV	40kV ~ 100kV	50kV ~ 110kV
	mAs Range	0.4mAs ~ 32mAs	0.4mAs ~ 100mAs	0.4mAs ~ 100mAs
	mA Range	12 ~ 30mA	16 ~ 40mA	20 ~ 100mA
	Max. kV Deviation	±5%	±5%	±5%
	Max. mAs Deviation	±3%	±3%	±3%
	Indication	kV(error code) /mAs: 7-segment LED	kV(error code) /mAs: 7-segment LED	kV(error code) /mAs: 7-segment LED
X-ray Tube	Focal Spot	1.2mm x 1.2mm	1.2mm x 1.2mm	1.8mm x 1.8mm
	Target Angle	19°	16°	15°
	Anode Heat Storage	10kHU	50kHU	42kHU
Collimator With Laser Pointer	Type	Double slit type, Manual operation	Double slit type, Manual operation	Double slit type, Manual operation
	Min. X-ray Field Size	5cm x 5cm @1m SID	5cm x 5cm @1m SID	5cm x 5cm @1m SID
	Max X-ray Field Size	40cm x 40cm @ 75cm SID	40cm x 40cm @ 75cm SID	40cm x 40cm @ 75cm SID
	Laser Pointer	Class : ⅢA 5mW	Class : ⅢA 5mW	Class : ⅢA 5mW
	Lamp	24V LED	24V LED	24V LED
	Dimension	335 x 153 x 170mm	360 x 200 x 190mm	360 x 200 x 190mm
	Packing Size	520 x 400 x 330mm	520 x 400 x 330mm	520 x 400 x 330mm
	Product Weight	8.6kg	13kg	13kg
	G-Weight	18kg	22kg	22kg

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jpi Healthcare — Improving Quality of Life

REF JSA-06-47[Rev.0]

JPI Healthcare Solutions
TOP Medical Imaging Solution Providers 2020
AWARDED BY Healthcare Tech

for Veterinary

40TH
Since 1980

X-ray Grids

Radiography System

Detector

examvue Software

Computed Radiography

X-ray Accessories

Gastroenterology

DynaVue

Solution for Veterinary Interventional Radiology Examination

DR & Real-time FLO

Advantage
- Target: Small & Medium interventional practice
- Larger FOV(17x17") compared to C-arm (max.12 inch)
- Image distortion free compared to C-arm (Image Intensifier)
- Space saving
- Minimally invasive diagnostic and therapeutic
- Real-time image processing (30 FPS for FLO)

ExamVue Fluoroscopy
Real-Time Image Processing S/W

From Image Stitching to DICOM 3.0
DynaVue includes ExamVue features such as DICOM Modality Worklist,
DICOM Print, Reject, CD-DVD Burn, Image Stitching, Procedure Code Mapping function

FPS mode (High Image Quality)
GPU based real-time image speed is 30 FPS when applied post-image processing engine

Radiography + Fluoroscopy
Available to choose each mode

FLO Sample Image

Feline   for FLO sample video

RAD Sample Image

Canine, 30kg   Canine, 8kg

ExamVue Software

DR for Veterinary

PACS for Veterinary
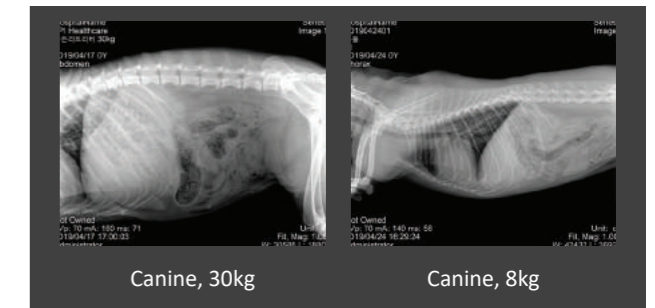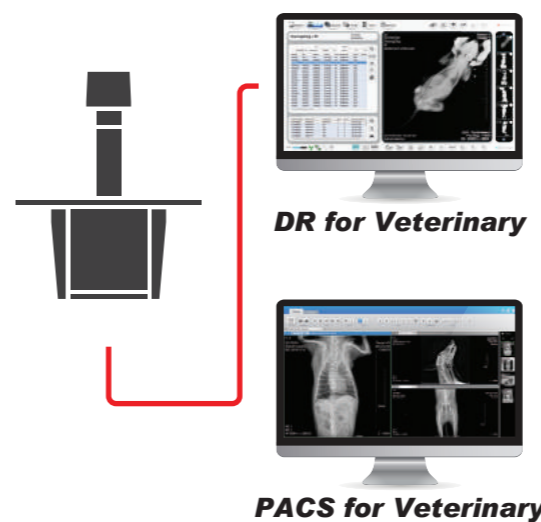
Frame rate control **to acquire real-time images** up to 30 FPS	
DICOM Cine-loop Display (with Previous, Pause, Play and Image slider bar)	
Imaging and Annotation Tools (VHS, Norberg Angle, Zoom, Pan, Crop, Invert, Rotation, Angle, Label, Text)	
Powerful User Features (Image import / export, Image comparison, Multi view, Image expansion, Full screen, Auto collimation, Reject/Accept, Image capture, Smart APR (Anatomic Programmed Radiography))	

* Only Available in Fluoroscopy Viewer

Smart Window Level
DICOM3.0 Compatibility
Post Image processing mode for each body part
Changeable Skin color (Green Tea, Strawberry, Mint, Chocolate, Banana, Vanilla)

Total Imaging Solution for VET

Digital Radiography + Fluoroscopy
2 in 1 system

As Low As Reasonably Achievable (ALARA)
Pulsed FLO manage reduced dose for you and your pet
* 10ms/pulse

10kW Monoblock Type
15kW Inverter based system

The World's First 43 x 43cm Large FOV
Detector allows dynamic performance

Space Saving at Practice
Small footprint to fit your current clinic room

Great Image Quality

PSA (Photodiode Sensor Array)
Optimized Digital X-ray Image

Wavelet Transform
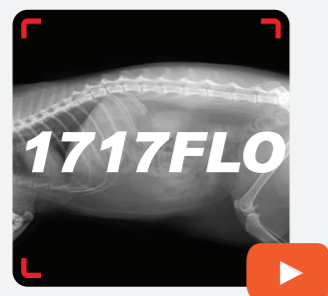Offering enhanced real-time FLO

User Friendly Design

4 Way Floating Table
Enhance your workflow

23 inch Touch Screen Display
Intuitive UI

# Large Field of View Dynamic Exam

1717FLO

Applications
· Minimally invasive Fracture repair
· Intraluminal Stenting for the Treatment of Tracheal Collapse
· Urethral and Colonic Obstructive Disease
· Vascular Procedures
· Orthopedic Procedures
· Contrast Studies of the Gastrointestinal Tract

Specifications

Monoblock	**RAD** mode	Power	10kW (Inverter 15kW)
		mA	1mA ~ 160mA
		Exposure	200msec
		Focal Spot	0.6
	FLO mode	Power	3.5kW
		mA	1mA ~ 20mA
		Exposure	10min
		Focal Spot	0.3
		kVP	40 ~ 110kV(1kV step)
		Target Angle	16°
		Heat Capacity	150kJ
Collimator		Type	Double slit, Manual
		Initial Position	0cm * 0cm
		Max Position	43cm * 43cm
		Laser pointer	Class II
		LED Lamp	500mA, PWM control
Detector	**RAD** mode	Pixel resolution	3072 * 3072 (1*1 binning)
		Pixel Pitch	140μm
		Spatial resolution	3.57p/mm
	FLO mode	Pixel resolution	1536 * 1536 (2*2 binning)
		Pixel Pitch	280μm
		Spatial resolution	1.78lp/mm
		Frame|second	30 (High Image Quality) ; Post-Image Processing
		Active Image size	427 * 427mm
		Bit depth	16bit

Dimensions (mm)

300

1,586±110

Table

720±140

850

810

880

2,050

550

615

870
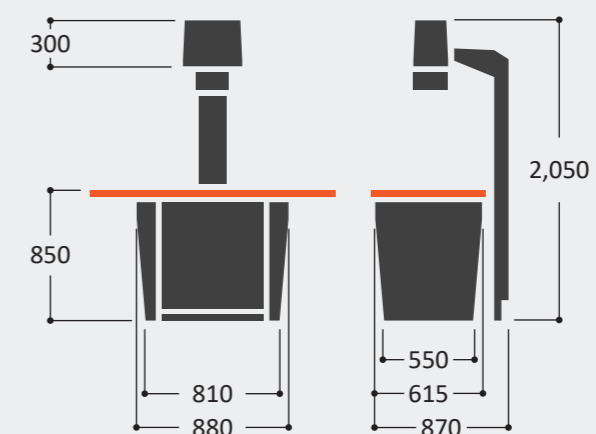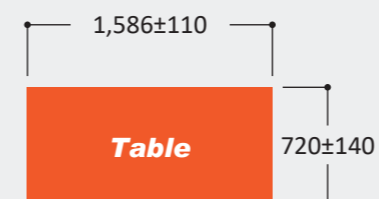
Input Voltage
220Vac 60Hz / 110Vac 60Hz

Size
720 (W) * 1,586 (L) * 2,050 (H)

Weight
240kg

Patient Weight
Max. 100kg

* This Dimension on this catalogue is about measurement of the "DynaVue", and it may be adjusted possibly.

JPi Healthcare
Improving Quality of Life

40TH
Since 1980

X-ray Grids

Radiography System

Detector

examvue Software

Computed Radiography

X-ray Accessories

Gastroenterology

The New *Generation*

CsI DIRECT DEPOSITION LOW-DOSE IMAGING

FULL-FIELD F²AED™

Clear Vision REF series
1800Le

Clear Vision REF series X-ray flat panel detectors incorporate the proven technology of amorphous silicon. The amorphous silicon photodiode array and TFT underneath convert invisible X-ray photons into visible photons, and then into electric charges.

The electron signals are measured and amplified in the data line, and then converted to digital signals by the Analog/Digital converter. Finally, the digital signals are transmitted to a PC for processing to from an image. High DQE, high spatial resolution, extraordinary dynamic range and ultra-low noise are hallmarks of our Clear Vision REF series. Each Clear Vision REF detector is submitted for FDA and CE approval.
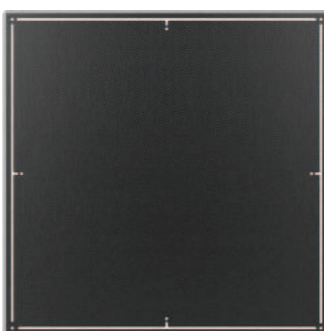
Applications
- Medical and Veterinary
- Excellent for highly detailed extremity imaging

Special Features
- Full-field AED for broad system compatibility
- Direct-Deposit CsI for better DQE and MTF
- Durable carbon fiber and aluminum alloy housing

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Clear Vision REF series - 1800Le

Specifications

Sensor	
Scintillator	Direct Deposit CsI:TI
Active Area	430 x 430 mm
Pixel Array	3072 x 3072
Pixel pitch	140 μm
Image Quality	
Spatial Resolution	3.57 lp/mm
MTF	70% (@ 1 lp/mm), 40% (@ 2 lp/mm), 22% (@ 3 lp/mm)
DQE	60% (@ 0 lp/mm), 15% (@ 3 lp/mm), 9% (@ 3.5 lp/mm)
A/D Conversion	16 bits
Communication	
Communication Interface	Gigabit Ethernet, WiFi (2.4G/5GHz)
Image Acquisition Time	2-4 sec
Exposure Control	F²AED, Manual Sync, External Sync
Mechanical	
Dimension	460 x 460 x 15 mm
Weight	3.96 kg
Power	
Power Supply	100-250V AC
Frequency	50 / 60 Hz
Power Dissipation	22 W operating, <8 W in standby mode

Digital Upgrade Solution

ExamVue DR Software

examvue
Software

Patient Information

Modality Work List

Image Acquisition

Detector

- Integration of various flat panel detector by different manufactures
- Modality Work List Generator provided as bundle
- Multiple language support
- Fast and professional image processing for each individual examination
- Faster Image Acquisition using the preview function

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JPI Healthcare Solutions
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- X-ray Grids
- Radiography System
- Detector
- examvue Software
- Computed Radiography
- X-ray Accessories
- Gastroenterology

The New Generation

CsI DIRECT DEPOSITION LOW-DOSE IMAGING

FULL-FIELD F²AED™

Clear Vision REF series
1500CWe & 1800CWe

Clear Vision REF series X-ray flat panel detectors incorporate the proven technology of amorphous silicon. The amorphous silicon photodiode array and TFT underneath convert invisible X-ray photons into visible photons, and then into electric charges.

The electron signals are measured and amplified in the data line, and then converted to digital signals by the Analog/Digital converter. Finally, the digital signals are transmitted to a PC for processing to from an image. High DQE, high spatial resolution, extraordinary dynamic range and ultra-low noise are hallmarks of our Clear Vision REF series. Each Clear Vision REF detector is submitted for FDA and CE approval.

Pixel Pitch | **Efficiency** | **Spatial Resolution**

Clear Vision REF series - 1500CWe & 1800CWe

Specifications	1500CWe	◀ • ▶	1800CWe
Sensor			
Scintillator		Direct Deposit CsI	
Active Area	430 x 356 mm	◀ • ▶	430 x 430 mm
Pixel Array	3072 x 2560 pixels	◀ • ▶	3072 x 3072 pixels
Pixel pitch		140 µm	
Image Quality			
Limiting Resolution		3.57 lp/mm	
MTF		63% (@ 1.0 lp/mm), 35% (@ 2.0 lp/mm), 17% (@ 3.0 lp/mm)	
DQE		(@ RQA5, 27µGy) 62% (@ 0.0 lp/mm), 50% (@ 0.5 lp/mm), 45% (@ 1.0 lp/mm)	
A/D Conversion		16 bits	
Communication			
Communication Interface		Gigabit Ethernet, WiFi (2.4G/5GHz)	
Image Acquisition Time		2-4 sec	
Exposure control		F²AED, Manual Sync, Software Sync	
AP		Optinal	
Mechanical			
Dimension	460 x 384 x 15 mm	◀ • ▶	460 x 460 x 15 mm
Weight	3.7 kg	◀ • ▶	4.6 kg
Power			
Maximum Power	Max. 36VA	◀ • ▶	Max. 48VA
Power Supply		100-240V AC	
Frequency		50 / 60 Hz	
Battery Performance		Up to 1,400 shots and 5 hours in ready mode	

Digital Upgrade Solution
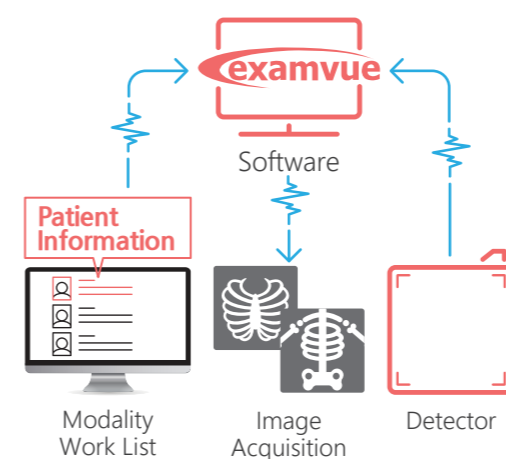
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Software

Patient Information

Modality Work List | Image Acquisition | Detector

ExamVue DR Software

- Integration of various flat panel detector by different manufactures
- Modality Work List Generator provided as bundle
- Multiple language support
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- Faster Image Acquisition using the preview function

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X-ray Grids

Radiography System

Detector

examvue Software

Computed Radiography

X-ray Accessories

Gastroenterology

NeoQ 4343

IGZO(Indium Gallium Zinc Oxide) Flat Panel Detector

NeoQ FPD's technology is well above a-Si detector. We are one of the first company to mount IGZO technology on a 17 x 17(43cm x 43cm) FPD. This new technology offers high DQE performance with low NED. NeoQ not only provides a good image quality with lower dose compared to other detectors, it also provides faster image acquisition speed which improves work flow efficiency.

DQE
Clearer image

NED %
Lower dose while maintaining image quality

NNPS %
Less noise in the image

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NeoQ 4343

Beginning of Next generation's leading product line

Specifications

Scintillator	Direct Deposit CsI:TI
Detector Technology	IGZO TFT
Dimension	460 x 460 x 15 mm Cassette size
Weight	3.5 kg
Active Area	426.44 x 426.44 mm
Pixel Array	3,072 x 3,072
Pixel pitch	140 µm
A/D Conversion	16 bit
DQE	≥ 72% @ 1 lp/mm ≥ 47% @ 3 lp/mm
MTF	1 lp/mm : ≥ 69% 2 lp/mm : ≥ 38% 3 lp/mm : ≥ 21%
Lag	< 0.025% 1st frame (additive lag)

Digital Upgrade Solution
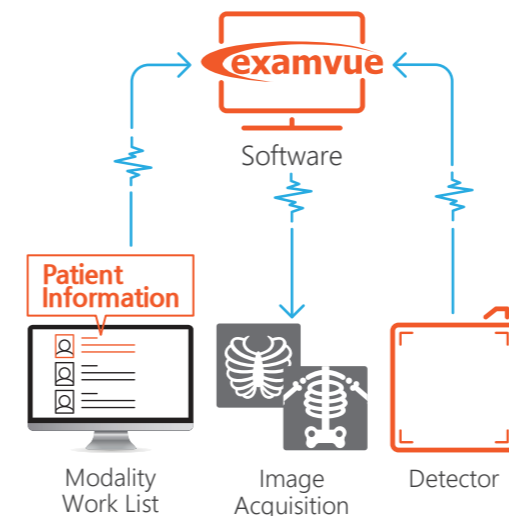
ExamVue DR Software

examvue
Software

Patient Information

Modality Work List

Image Acquisition

Detector

- Integration of various flat panel detector by different manufactures
- Modality Work List Generator provided as bundle
- Multiple language support
- Fast and professional image processing for each individual examination
- Faster Image Acquisition using the preview function
- Useful Imaging and Annotation Tools
  · Free Rotation, Image Export, grid lines Suppression, DICOM3.0 Compatible, DICOM Print, DICOM Send
- Optimized GUI design for touch screen

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REF JSA-06-57[Rev.00]

ExamVue DR Software - for Medical

ExamVue DR Software for Medical

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examvue Software

ExamVue DR

Computed Radiography

X-ray Accessories

Gastroenterology

Modality Work List

Patient Information

ExamVue DR Software

CUBEX 50(5kW)
Portable Generator

Clear Vision REF series
Flat Panel Detector

ExamVue DR Software

Proposed Imaging Solution
for Chest

Multiple Language Support

English	Korean	Chinese	Taiwanese	Japanese
Polish	Spanish	Vietnamese	Italian	Kazakh

▶ Easy process of adding unsupported languages.
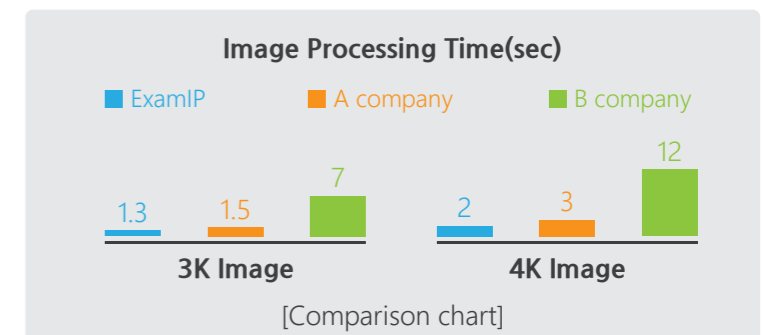
Image Optimization Features

Enhanced various Image processing technology & Parameter adjustment Easily modifiable features such as Sharpness, Edge, Contrast, Latitude, Gamma, Noise reduction Customizable image processing parameter per user's preference capability.

Hard   **Medium**   **Soft**

Fast Image Processing Time

· Avg. image processing time of 1.3 second required for 9MPx
· Avg. image processing time of 2 seconds required for 16MPx

Image Processing Time(sec)

■ ExamIP   ■ A company   ■ B company

	3K Image			4K Image	
1.3	1.5	7	2	3	12

[Comparison chart]

(Note: Workstation used for testing's specification. CPU: Intel Core i5-3470 (3.20GHz), RAM 8.00GB)

· Integration of various flat panel detector by different manufactures

Patient Information
· Modality Work List Generator provided as bundle

· Multiple language support

· Fast and professional image processing for each individual examination

Useful Imaging and Annotation Tools
· Image Stitching, Free Rotation, Black Blocker, Image Export, Automatic or manual removal of grid lines
· DICOM3.0 Compatible, DICOM Print, DICOM Send

User Friendly Design
· Optimized GUI design for touch screen

Convenient Diagnosis Function
· Freely Configurable body parts
· Fast and safe registration of emergency patients

Simple & Fast Workflow
· Faster Image Acquisition using the preview function

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ExamVue DR Software - for Veterinary

ExamVue DR Software for Veterinary

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ExamVue DR

- · Integration of various flat panel detector by different manufactures
- · Multiple language support

Animal Information
- · Modality Work List Generator provided as bundle
- · Fast and professional image processing for each individual examination

Useful Imaging and Annotation Tools
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Modality Work List

Animal Information

ExamVue DR Software

CUBEX 50(5kW)
Portable Generator

Clear Vision REF series
Flat Panel Detector

ExamVue DR Software

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Proposed Imaging Solution
for VET

Multiple Language Support

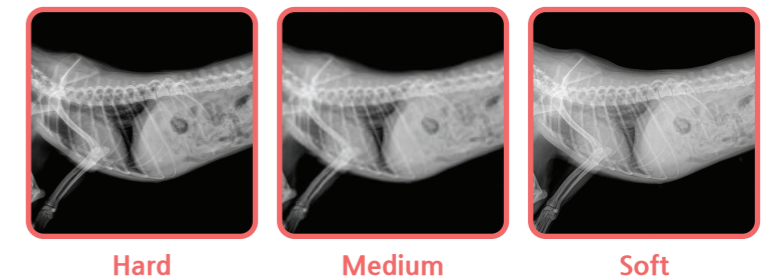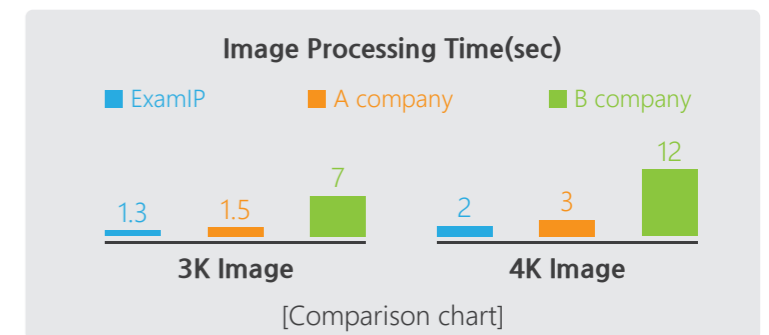| English | Korean | Chinese | Taiwanese | Japanese |
| Polish | Spanish | Vietnamese | Italian | Kazakh |

▶ Easy process of adding unsupported languages.

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Enhanced various Image processing technology & Parameter adjustment Easily modifiable features such as Sharpness, Edge, Contrast, Latitude, Gamma, Noise reduction Customizable image processing parameter per user's preference capability.

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Image Processing Time(sec)

- ■ ExamIP
- ■ A company
- ■ B company

3K Image			4K Image		
1.3	1.5	7	2	3	12

[Comparison chart]

(Note: Workstation used for testing's specification. 20GHz), RAM 8.00GB)

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