

AI-DR

iSmart-32Pro Dynamic Flagship

Intelligent Dynamic Veterinary DR Imaging System

Some conditions only reveal themselves in motion.

A static image is a single moment — dynamic imaging shows the whole process. iSmart-32Pro brings dynamic fluoroscopy into veterinary imaging: barium swallow studies, airway evaluation and orthopedic alignment checks, all visible in continuous real-time imaging.



Dynamic Fluoroscopy

Continuous imaging, instant replay



iLume 4343D Dynamic Panel

43×43 cm, readable at low dose



Canon 7240 X-ray Tube

300 kHU heat capacity, built for continuous work



Dedicated Dynamic Generator

32 kW, stable output in radiography & fluoroscopy



In-House Dynamic Software

Noise reduction, replay, frame-by-frame storage



Dynamic Fluoroscopy

See moving conditions in motion



Low-Dose Quality

In-house dynamic denoising chain



Pro Platform

Upgrade path for static users



Clinical Studies

Barium / airway / orthopedics



Software Ecosystem

From acquisition to report

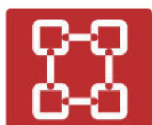
Core Advantages

iSmart-32Pro — more stable, smarter, more efficient imaging



Dynamic Fluoroscopy

Barium studies, dynamic airway evaluation and orthopedic observation — the whole process visible in continuous imaging.



iLume Imaging Chain

iLume 4343D dynamic panel + dedicated dynamic generator, with an in-house denoising chain validated on real systems.



Readable at Low Dose

Dynamic denoising preserves image quality at low dose — less radiation for animals and staff alike



Pro-Upgradeable Lineage

Shares the 400Pro gantry — static Pro.users can upgrade to the dynamic flagship for just the price difference.



Same as Export Model

Exported in volume to many countries; optional upgrade to the original iRay 1717Z dynamic panel.



32kW

Dedicated dynamic generator



300KHU

Canon 7240 X-ray tube



iLume 4343D

Dynamic flat panel



5-min Fluoroscopy

View and replay



In-House Software

Acquire / process / report

HYBIONT

Core Components & Imaging Chain

iSmart-32Pro combines high-performance core components with a dynamic imaging chain, forming a stable, sharp and reliable digital dynamic imaging system.

01 X-ray Tube



Canon 7240, 300 kHU heat capacity, stable and durable.

02 HV Generator



32 kW dedicated dynamic high-frequency generator, stable output for the tube

03 Dynamic Panel



iLume 4343D, 43×43 cm, 3072×3072 matrix, 16 bit

04 Workstation



Integrated acquisition, processing, measurement and archiving, with dynamic fluoroscopy replay



X-ray Tube
Generates X-rays



HV Generator
Delivers stable high voltage



Dynamic Panel
Receives & converts the image



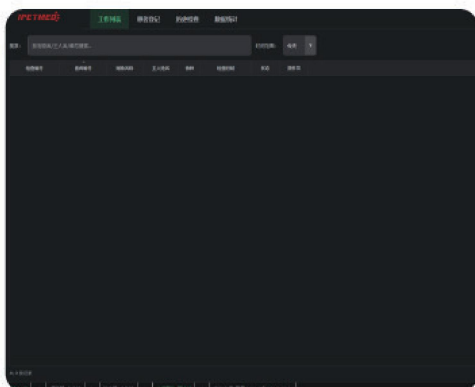
Workstation
Processing, display & storage

Smart Imaging Workstation

From acquisition to reporting — efficiency at every step

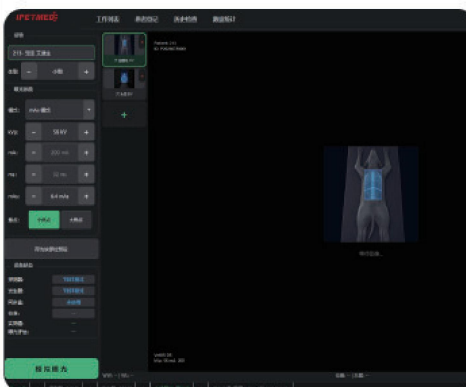
An all-in-one imaging solution that covers the entire workflow: simpler operation, faster diagnosis, smarter image management and more efficient veterinary care.

1 Worklist



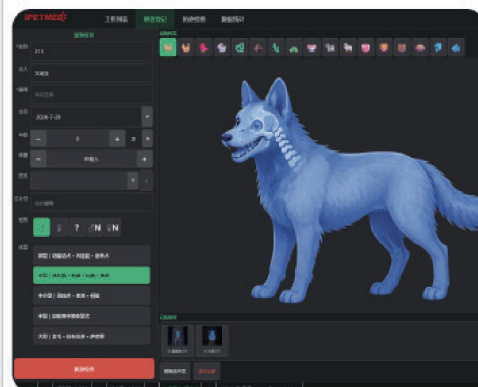
Clearly shows pending, in-progress and completed studies, with multi-filter search, batch operations and quick navigation — the whole workflow at a glance

2 View & Acquisition



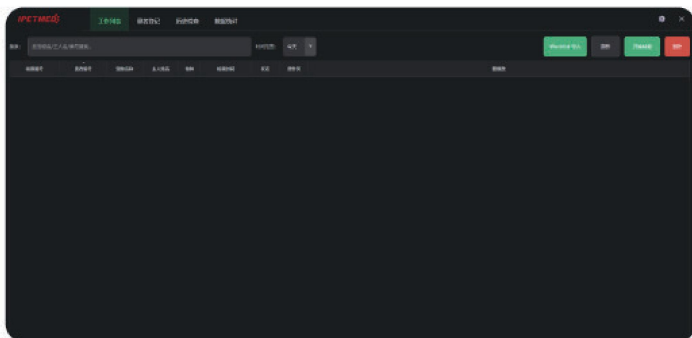
Rich acquisition parameters and professional imaging tools support multi-view capture with real-time preview and stable, sharp images for precise diagnosis.

3 Patient Registration



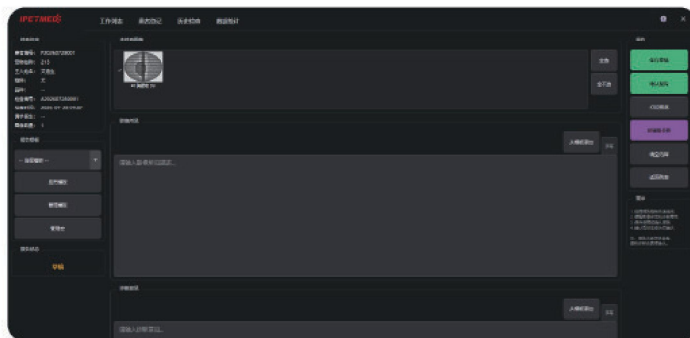
Quickly register pets and owners, with multiple species, body types and templates — standardized data and faster registration.

4 Study History



Complete records of past studies with image review, comparison and export, for easier follow-up and data management.

5 AI Report Draft



AI-assisted image analysis generates draft reports; the veterinarian reviews, edits and signs off.



Full-Workflow Coverage

Seamless from acquisition to report



Fast & Easy

Simplified operation, higher efficiency



Standardized & Secure

Standardized, reliable data



Cloud Storage

Access images anytime, anywhere



AI Assistance

Smart analysis, precise & efficient

pengineAI Software Workflow

Desktop application • image acquisition, management & AI assistance



Modular management of clinic-wide operations

Multi-module coordination

Centralized data storage

Standardized workflows

Permission & role control



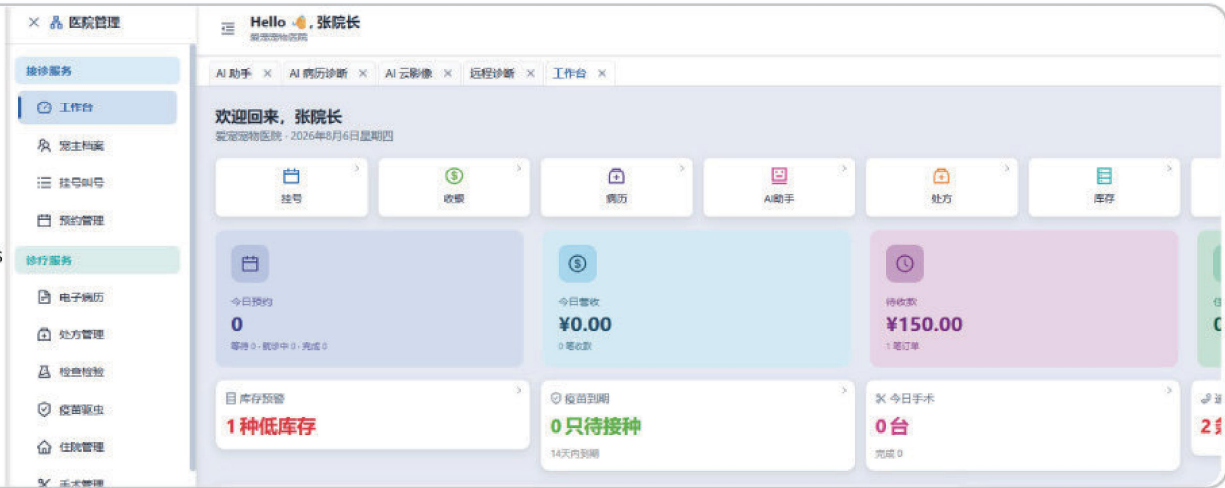
One-stop business & data overview

Quick access to key functions

Real-time business metrics

Clear view of pending tasks

Revenue trends & orders



Smart tasks & clinical assistance

Auto task creation & tracking

Smart record / image analysis

Advice & knowledge Q&A

Better efficiency for vets



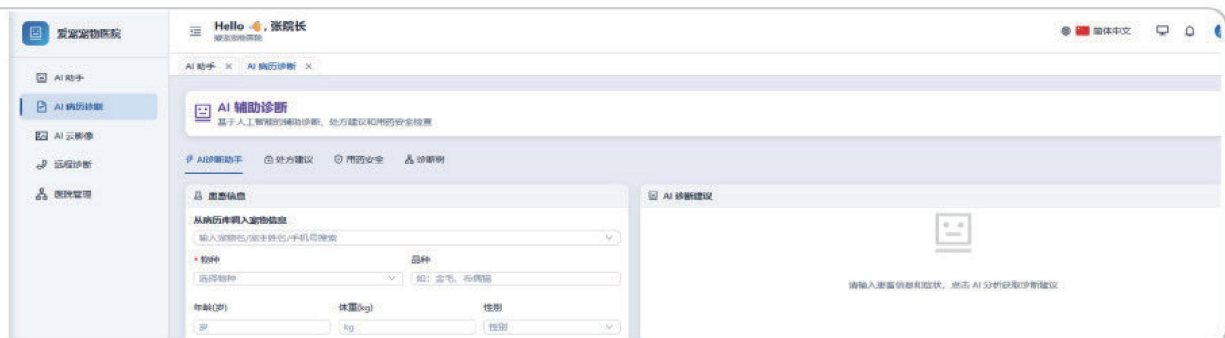
Draft reports with veterinarian review

Multi-dimensional history

AI diagnostic suggestions

Medication & Rx reference

Safe clinical decisions



Technical Specifications

iSmart-32Pro delivers stable, reliable, highquality imaging for a wide range of veterinary clinical examinations



Item	Specification
High-Voltage Generator	
System type	AI-DR dynamic digital X-ray system
Generator	32 kW dedicated dynamic high-frequency generator
Tube voltage range	Radiography 40-125 kV / Fluoroscopy 40-110 kV
Tube current range	Radiography 10-400 mA/Fluoroscopy 0.5-10 mA
Exposure time	Radiography 0.001-10 s/ Fluoroscopy up to 3 min per run
X-ray Tube	
Tube model	Canon E7240X
Focal spot size	Small 0.6 mm/ Large 1.2 mm
Anode heat capacity	300kHU
Anode input power	Small focus 15 kW /Large focus 30 kW
Dynamic Flat Panel	
Standard panel	iLume 4343D dynamic flat panel
Active imaging area	43x43 cm (17x17 in)
Pixel matrix/ pitch	3072x3072/139 um
A/D conversion	16 bit
Dynamic frame rate	Full frame ≤4 fps/1536 s20 fps/10242≤34 fps
Data interface	1000M Ethernet, switchable wired /wireless
Optional upgrade	Original iRay Mercu 1717Z dynamic panel
Gantry & Examination Table	
Gantry	Elevating rotating gantry; adjustable SID, tube rotation, upright radiography
Examination table	1400x700 mm phenolic-resin top; floating X 75+10 mm/Y 200+10 mm
Dynamic Workstation & Software	
Workstation	Dedicated dynamic desktop PC, 23.8-inch monitor + 21.5-inch touchscreen
Software modules	Acquisition, processing, measurement, reporting, DICOM, dynamic replay, frame-by-frame storage
AI/cloud services	AI report drafts, remote consultation, image cloud, pet-owner mini-app viewing
Clinical Applications	
Examination types	Barium swallow studies, tracheal collapse evaluation, swallowing assessment, diaphragmatic hernia observation,orthopedic alignment confirmation
Power supply	220 V mains