

IPETMED 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.



32 kW

Dedicated dynamic generator



300 kHU

Canon 7240 X-ray tube



iLume 4343D

Dynamic flat panel



5-min Fluoroscopy

View and replay



In-House Software

Acquire / process / report

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

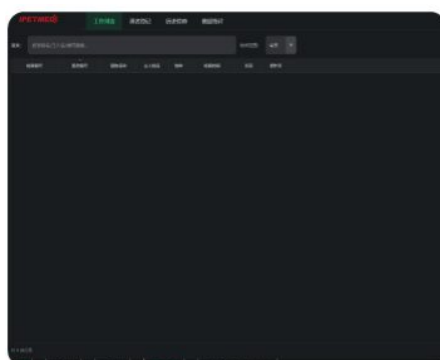


Intelligent Imaging Workstation

From acquisition to report — efficiency at every step

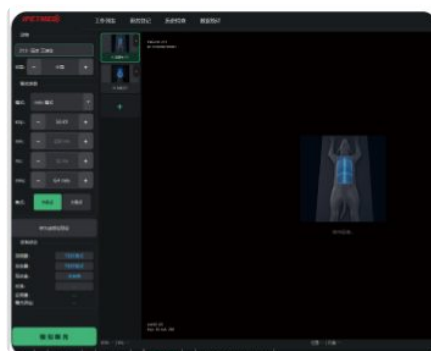
An integrated imaging solution covering the entire workflow — simplified operation, faster diagnosis, smarter image management and more efficient veterinary care.

1 Worklist



Clearly shows pending, in-progress and completed studies. Multi-criteria filtering, batch operations and quick navigation keep the whole workflow at a glance.

2 Viewing & Acquisition



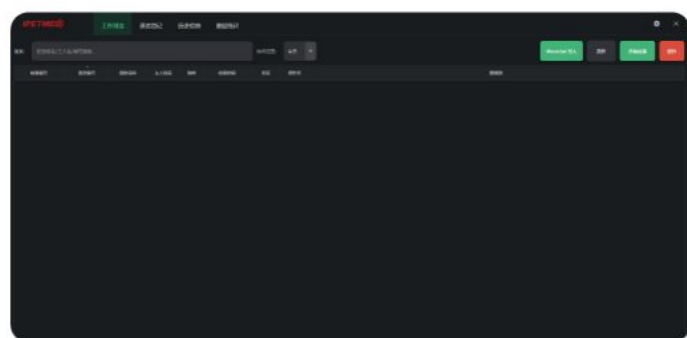
Rich acquisition parameters and professional imaging tools. Multi-position acquisition with real-time preview delivers sharp, stable images for accurate diagnosis.

3 Patient Registration



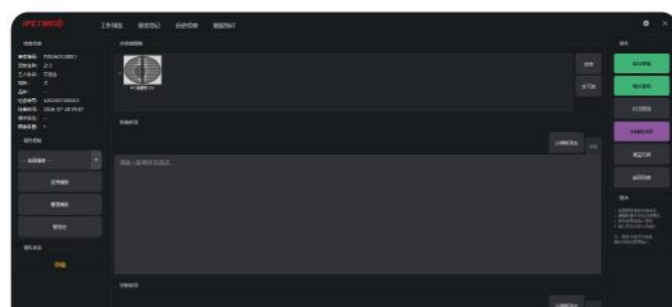
Register pets and owners quickly, with multiple species, positions and templates. Standardized data makes registration faster and cleaner.

4 Study History



A complete record of past examinations with image review, comparison and export — easy traceability, follow-up and data management.

5 AI Report Drafts



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



Full Workflow
Seamless from acquisition to report



Fast & Easy
Simplified operation, higher efficiency



Standardized & Secure
Reliable, standardized data



Cloud Storage
Access images anywhere, anytime



AI Assistance
Smart, accurate analysis

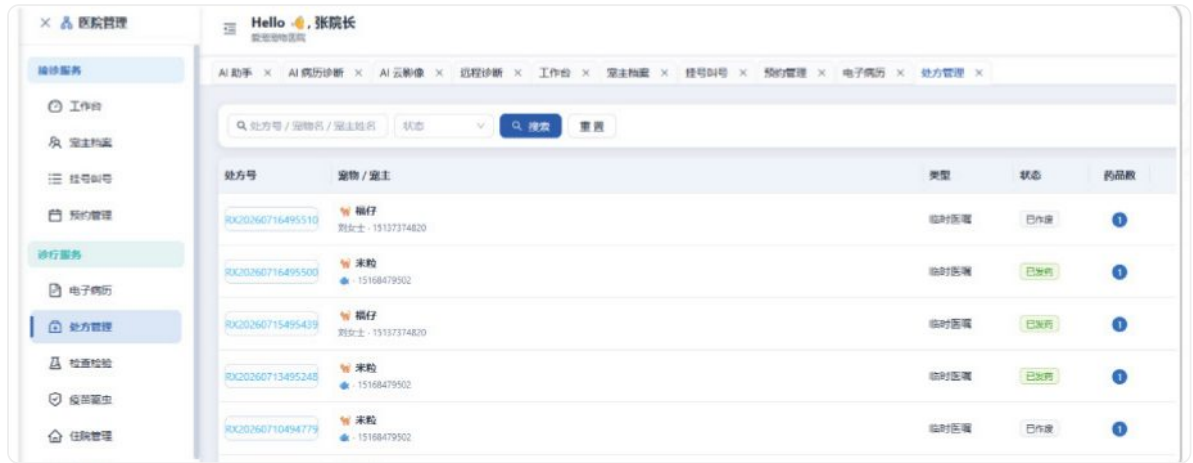
pengineAI Software Workflow

Desktop application · Image acquisition, management & AI assistance



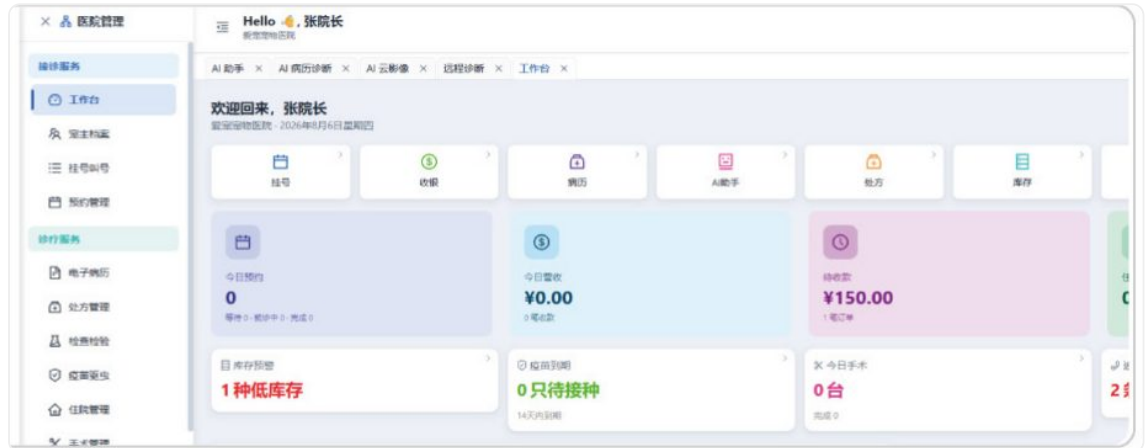
Modular management for the whole clinic

Multi-module collaboration
Centralized data storage
Standardized workflows
Permission & role management



One-stop business & data overview

Quick access to key operations
Real-time business metrics
Clear to-do overview
Revenue trends & orders



Intelligent tasks & clinical assistance

Auto-generated task tracking
Smart record & image analysis
Advice and knowledge Q&A
Better efficiency for vets



Report drafts & vet review

Multi-dimensional history
AI diagnostic advice
Medication safety reference
Safe clinical decisions



Technical Specifications

iSmart-32Pro delivers stable, reliable, high-quality 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	300 kHU
Anode input power	Small focus 15 kW / Large focus 30 kW
Dynamic Flat Panel	
Standard panel	iLume 4343D dynamic flat panel
Active imaging area	43×43 cm (17×17 in)
Pixel matrix / pitch	3072×3072 / 139 μm
A/D conversion	16 bit
Dynamic frame rate	Full frame ≤4 fps / 1536 ² ≤20 fps / 1024 ² ≤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	1400×700 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