

IPETMED[®] A Full Imaging Suite, Packed in Your Trunk.

IPETMED AI-DR Portable Wireless Model

iFlex-100W



The whole system fits in one trunk

One-person portable — easier house calls



iLume 4343W wireless flat panel

No cabling — ready to shoot in 10 minutes



Orders straight to DR (DICOM Worklist)

Auto-received — no manual re-entry



AI imaging assistant on board

Draft on site, review & sign off back at clinic



Covers every field scenario

House calls / studios / stable retakes



iFlex-100W

Portable Wireless DR Solution



Portable X-ray Unit

All-in-one, easy to operate



iLume 4343W

43×43 cm wireless panel



Laptop Workstation

Acquisition software + AI

Not every patient can make it to the hospital — highly stressed cats, post-surgery dogs that should not be moved, horses in the stable. iFlex-100W splits a DR room into three pieces of luggage: a portable all-in-one X-ray unit, an iLume 4343W wireless flat panel and a laptop. Set up in ten minutes, read images on the spot, and let the AI draft the report as you shoot. Back at the clinic, the images are already waiting in the cloud. Mobile care should never compromise on imaging.



Same software & imaging cloud as in-clinic

Seamless data synchronization



AI imaging assistant on every visit

Drafts on site, vet review & sign-off



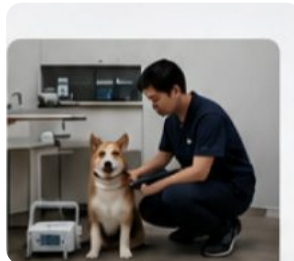
House calls / off-site retakes / stables

Ready for every kind of visit



House Calls

The machine travels, not the patient



Small Studios

Imaging without an imaging room



Stable Retakes

Image on site, the horse stays put

IPETMED

Professional Image Quality, Stable & Reliable

iFlex-100W is engineered to in-hospital image-quality standards, delivering clear, accurate diagnostic images in every setting. A high-performance detector and optimized imaging algorithms bring lower dose, higher contrast and richer detail.



Clinical Images



High-Resolution Imaging



iLume 4343W wireless flat panel with 3.5 lp/mm resolution renders fine bone and soft-tissue detail.

Low Dose, High Contrast



An optimized imaging chain effectively lowers dose while preserving diagnostic quality, protecting animal health.

Large Imaging Matrix



43×43 cm active imaging area covers chest, abdomen, limbs and other views in a single exposure.

Stable Output, Built to Last



The all-in-one portable X-ray unit delivers reliable output across demanding field environments.

Lower Dose, Higher Efficiency

Smart exposure control and AI algorithms are optimized together to reduce retakes and lift overall workflow efficiency — without compromising image quality.



Dose Optimization

Smart exposure parameter control



Efficiency Gains

Less time lost to retakes

Core Components & Portable Imaging Chain

iFlex-100W pairs high-performance core components with a tightly coordinated portable imaging chain, delivering a fast, stable and portable end-to-end workflow while safeguarding image quality.

Core Components



Portable X-ray Unit



- Compact, light, one-person carry
- Integrated tube & HV generator
- Simple operation, fast response
- Stable output, sharp imaging



iLume 4343W Wireless Panel



- Wireless transfer, cable-free
- High-resolution, low-dose imaging
- Rugged, water & dust resistant
- Large field of view, any body part



PC Workstation



- Professional acquisition & preview
- Smart processing, higher efficiency
- Report editing & management
- Stitching, measurement & analysis



Processing & Archiving



- Optimized image post-processing
- DICOM-standard compatible
- Encrypted cloud storage
- Data security & backup

Portable Imaging Chain

01

Exposure



02

Panel Capture



03

Reconstruction



04

Review & Archive



Portable X-ray unit delivers a high-quality exposure



Wireless detector receives and captures the image fast



PC workstation reconstructs and processes the image



Professional review and archiving with search & backup



Professional Image Management, All on Your PC

iFlex-100W acquisition, reconstruction, review and storage all run in one integrated PC application — a bigger screen, higher efficiency and truly professional image management.



iFlex-100W

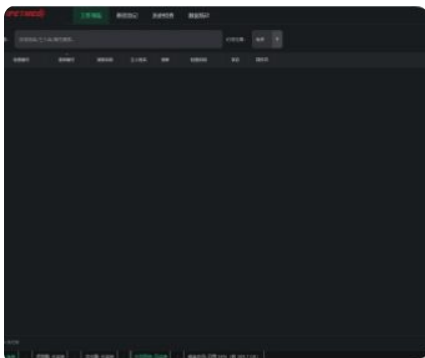
Portable Equine DR Imaging Workstation

Windows PC · Acquire / Process / Measure / Report

Built for equine field workflows — the software stays in landscape view.

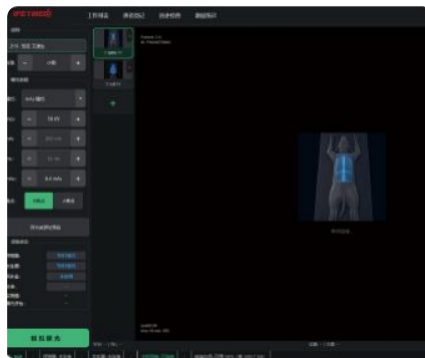


1 Worklist



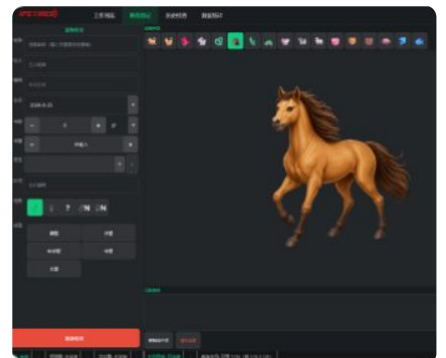
Pending, in-progress and completed exams at a glance, with multi-filter search, batch actions and fast navigation for an efficient workflow.

2 Image Acquisition



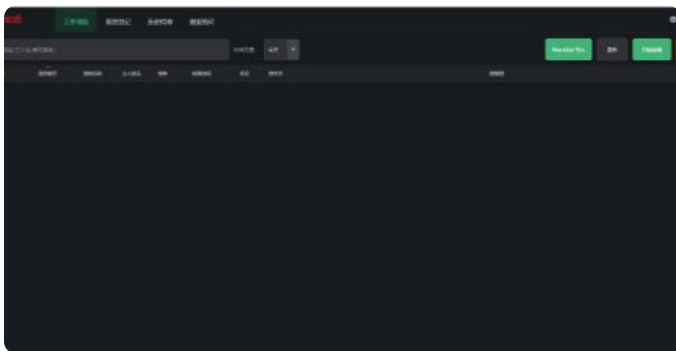
Rich acquisition parameters and professional tools, multi-view capture with real-time preview — clear, stable images for precise diagnosis.

3 Patient Registration



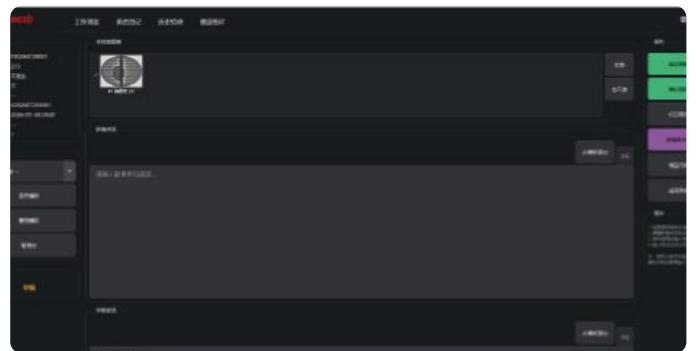
Register animals and owners fast, with multiple species, positioning and template options for clean, standardized records.

4 Exam History



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

5 AI Report Draft



AI analyzes the images and drafts the report; the vet reviews, edits and signs off.



Full Workflow

Seamless from capture to report



Fast & Easy

Simplified operation, higher efficiency



Standard & Secure

Standardized, reliable data



Cloud Storage

Images anywhere, anytime



AI Assistance

Smart, precise analysis

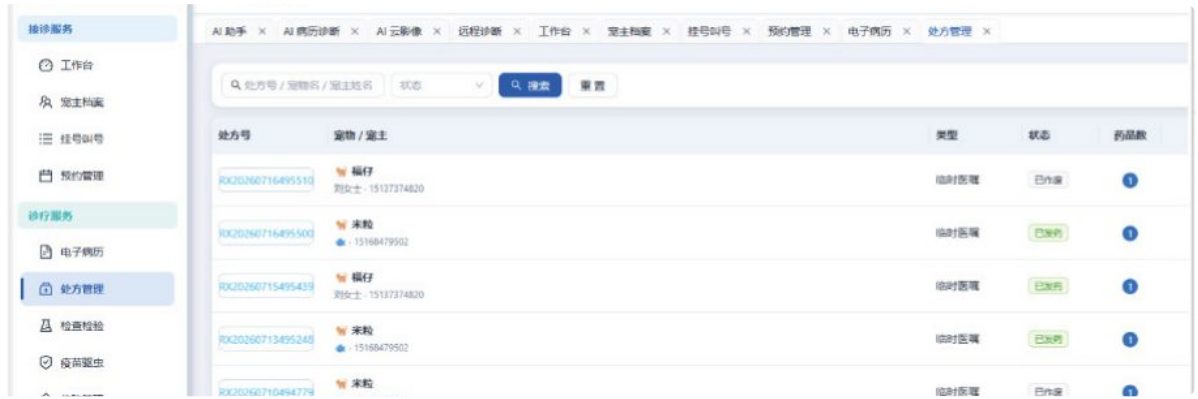
PENGINE AI Software Workflow

Desktop Application · Imaging Acquisition, Management & AI Assistance



Modular Clinic-wide Management

Multi-module coordination
Centralized data storage
Standardized workflows
Roles & permission control



One-stop Business & Data Overview

Quick access to key tasks
Live business dashboards
Clear to-do overview
Revenue trends & orders



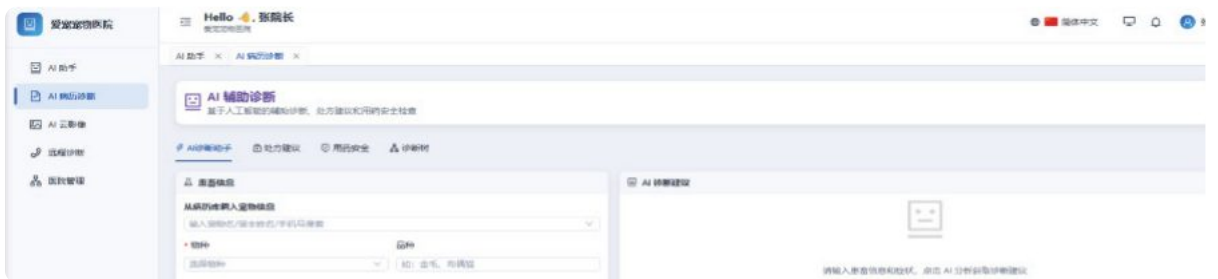
Smart Tasks & Clinical Assistance

Auto-generated task tracking
Smart record & image analysis
Treatment advice & Q&A
Better vet efficiency



Report Drafts & Vet Review

Rich history intake
AI diagnostic suggestions
Medication & Rx reference
Safer clinical decisions



IPEMED®

Technical Specifications

06/06

iFlex-100W Portable Equine DR Imaging System

System Overview

Product Name	iFlex-100W Portable Equine DR Imaging System
Model	iFlex-100W
System Type	Portable digital X-ray imaging system
Application	Equine limb, hoof and joint radiography & diagnosis
Configuration	Portable X-ray unit + wireless flat panel detector + control workstation
Imaging Technology	Digital radiography (a-Si flat panel detector)

Portable X-ray Unit

Max Output Power	5.6 kW
Tube Voltage	40–120 kV
Tube Current	20–100 mA
mAs Range	0.1–320 mAs
Exposure Time	0.01–6.3 s
Focal Spot	0.6 / 1.8 mm
Anode Angle / Heat Capacity	15° / 40 kJ
Dimensions / Weight	330×245×230 mm / 16.8 kg
Operation	7-inch touchscreen, hand switch / remote exposure
Power Supply	Single-phase 110/220 V (battery version optional, per order configuration)

Wireless Flat Panel Detector

Detector / Scintillator	Amorphous silicon (a-Si) / CsI
Active Area	43×43 cm
Pixel Matrix	3072×3072
Pixel Pitch	139 μm
A/D Conversion	16 bit
Spatial Resolution	3.5 lp/mm
Preview Time	2 s
Data Interface	Wireless 2.4G/5G IEEE 802.11
Trigger Mode	AED / Prep / software trigger
Battery	6000 mAh Li-ion, 4 h runtime (15 s shot cycle), 3 h charge

Control Workstation

Acquisition Software	In-house; Caravaggio tone rendering, auto exposure by body size
AI Imaging Assistant	On-site report drafts, vet review & sign-off
Software Plan	Auto cloud sync of field exams (when online); first year included, then 1,500/yr

Intended Use

House Calls	Routine canine & feline views
Small Studios	Essential imaging without an imaging room
Stable Retakes	Equine distal limbs

Thick body parts of large animals (chest / abdomen / spine) are limited by portable output power — refer to the validated application range.



5.6 kW

High power output



Wireless

Fast, convenient wireless transfer



One Person

Light, quick to deploy



On-site

Mobile, precise imaging

Product Configuration



Portable X-ray Unit



Mobile Stand (optional)



Wireless Flat Panel Detector



Control Workstation

Clinical Applications



Limb Imaging

Full-length fore / hind limb views



Hoof Imaging

Hoof wall, coffin bone and other structures



Joint Imaging

Stifle, hock and other joint exams



Follow-up

Treatment assessment and comparison over time