# Veterinary Digital Radiography Operator Console (VetDROC)

VetDROC provides delicated control of digital images acquisition with most effective workflow management and professional performance. Using direct-to-digital technology, images display within a few seconds after taking exposures, meanwhile, images will be optimized automatically for the details enhancement and transferred to predefined destinations for diagnosis.
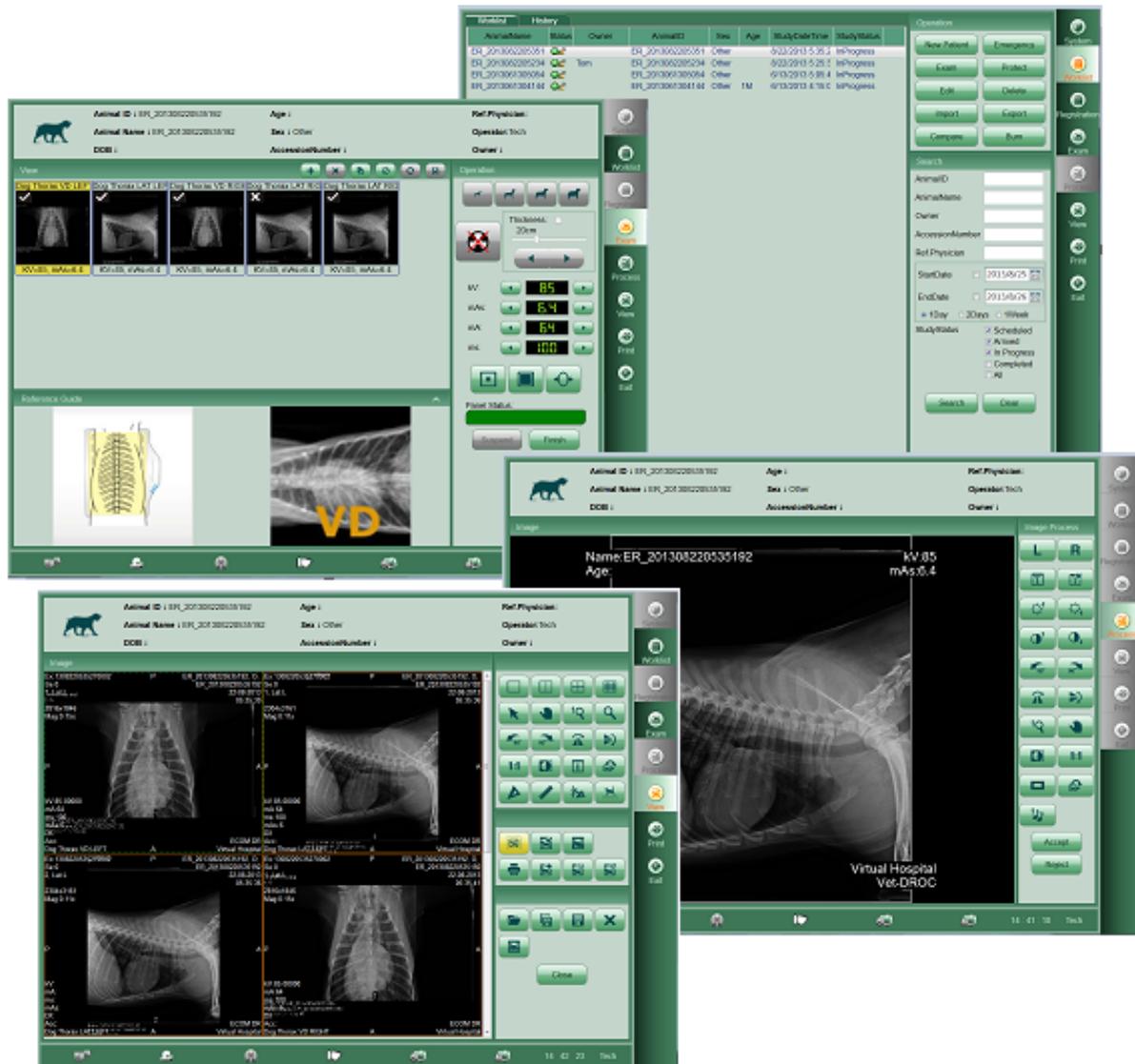
Based upon the newest workflow architecture from E-COM, VetDROC also provides a brand-new operation style.
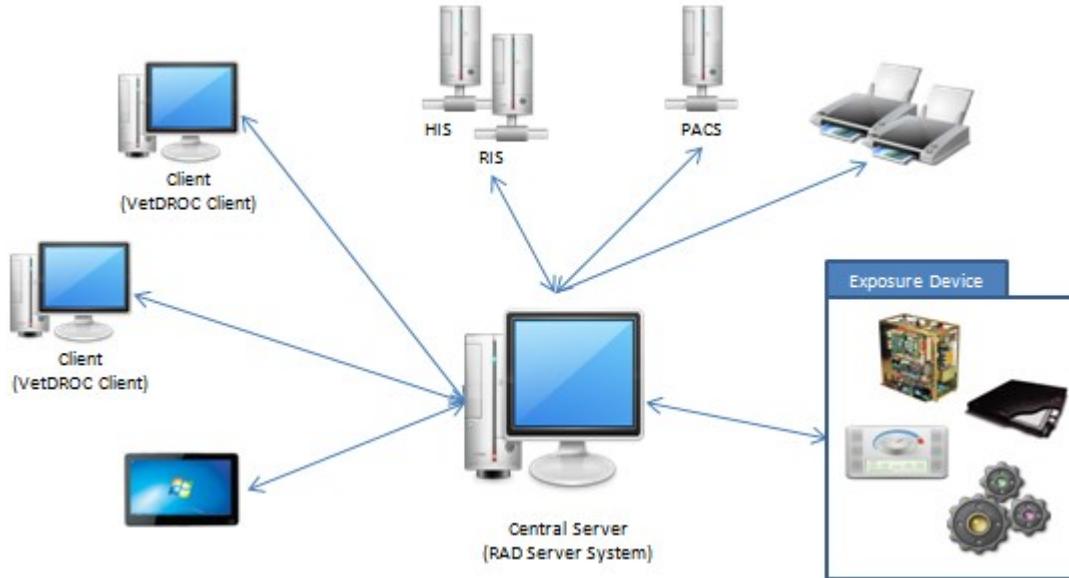
- "One Acquisition Server, Multiple Operating Client" architecture.
- Multi-monitor supported.
- Synchronization of both workflow control and data presentation among all operating clients. (including Worklist, Exam, Process, etc.)
- More convenient to plug new operating client into the vet DR system.
- Wireless network supported.

Compatible with most device in the Market. Advanced architecture enable the fast integration with new veterinary equipment; Ready for customization and localization for OEM partners of cultures.

Full DICOM 3.0 Compatibility
- DICOM Storage SCU, DICOM Storage SCP
- DICOM Query/Retrieve SCU,Query/Retrieve SCP
- DICOM Worklist SCU
- DICOM Print SCU

Customization Service
- Easy access to language localization by OEM Users
- Customization Service to develop the GUI into specific style
- Customization Service to develop the VetDROC compatible with specified Generator or other devices

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Multi-way System deployment

- Mobile system with Pad control embedded on generator control for Equine Application.
- Desktop system with touch screen pad on Table side for small animal.
- Retrofit system with additional pad attached to Table side.

a) Software standard specifications

№	Features	Description
1.	**Worklist**	– Exhaustive protocols designed for most popular breeds, i.e. Equine, Canine, Feline list and others – Modify the registered user basic information – Compared to show the image of two users – Delete work task – Protection work tasks to avoid being deleted – Auto fill in the basic information by opening an existed study – Search control with multiple searching criteria – Auto registration of exam data from HIS/RIS – Image import – Image export & burn – In the history list shows the completed task
2.	**Registration**	– Local registration designed for veterinary use, such as owner's name, weight fields, etc. – Emergency registration – For the user to select a different protocol
3.	**Exam**	– Visible protocols can be easy chose for specific breed – Programmed default exposure technique, can be edited for every view – Append new exam- protocol temporarily. Protocol clone – Image accept & reject – Changes the accept or reject status of the image – Delete the unexposed protocol – Send the selected image to archive node – Sample image for Position Guide & Reference Guide – X-ray technique factors setting and displaying (APR function) – Synchronization among multiple operating client (including hardware control, real-time data and user operation)
4.	**Image Process**	– Add/Remove marks or comments – Image move, rotate, flip, crop, zoom, pan, invert, mirror – Scale correction – Accept the image or reject

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		– Image reprocess and save as new copy
		– Synchronization among multiple operating client
		– Symphony TM, an advanced post-processing module
		– Symphony TM processing is to improve image contrast, adjust dynamic range, enhance the details and reduce the noise, so that it can produce the most high-quality images for interpretation. It expands the visibility of low-contrast structures such as tissue and vessels, while maintaining and enhancing the visibility of high-contrast structures such as bone. By optimizing the presentation of radiographic data, Symphony TM makes it easier for the radiologist to read images and make proper diagnoses.
5.	Print	– Sending image to Vet-PACS – Setting Print Type – Dicom Printing – Windows Printing – True size for printing – Print layout, Show/Hide lable, portrait/landscape, rotate, zoom, pan, invert, etc. – Image export – Image outputting management for CD/DVD storage, saved as JPG, BMP, TIFF formats
6.	**Image Review**	– Multi-format layout viewing – Image rotate, flip, crop, magnifier, zoom, pan, invert – Send image/Export image/Burn image – Image display settings: true size, fit to windows – Show Dicom information – Open a Dicom image/save image to Dicom files/save raw image to local media – Setting raw image as demo image – Close current work – Send the selected image to archive node – View image(DICOM Viewer software) – Image Measurement: angle/liner measurement, hip study – Image selection type: current image, current selected images, all images
7.	**System Management**	– Detector calibration – Statistics – Task Queue – Change Password

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8.	**Standard Supported**	– DICOM Print feature
		– DICOM Storage SCU, DICOM Storage SCP
9.	**Accessory**	– Exposure Synchronization box, connected between the DROC, Generator, FPD etc.
		– Touch Screen / UMC Screen

b) Options

10.	**DICOM Worklist**	– Remote register: Support link with RIS/HIS of different providers and get DICOM Worklist by configuring DROC
11.	**Film Composer**	– Free to split the film into various layout
		– Windows print
		– Image windowing
		– Image zooming, batch zooming
		– Image rotation
		– Markers hiding/showing
		– Images adding/ deleting
		– Images auto repacking
12.	**Touch Sreen**	– Addtional Monitor which mounted on Table(Tube) side
		– Software standard specification with feature 1 (worklist), 2 (exam), 3 (image process)
13.	**Pad**	– Additional Pad which can mounted on generator side with WIFI connection.(eg. Miakasa Portable Generator)
		– Software standard specification with feature 1 (worklist), 2 (exam), 3 (image process), 4.(generator)

c) Recommended Hardware Environments

14.	**Host PC**	● CPU: Pentium dual core 2.0GHz or above
		● Memory: ≥2GB
		● HD: ≥100GB
		● Display: 1280*1024 resolution;
		● OS: Windows XP, windows7
		● At least 1 serial port
		● Optional disk array
		● E-COM license Dongle is necessary
15.	**Client PC**	● CPU: Pentium dual core 2.0GHz or above
		● Memory: ≥2GB
		● HD: ≥100GB

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- Display: 1280*1024 resolution;
- OS: Windows XP, windows7
- At least 1 serial port

16. **SubClient PAD**
- CPU: Intel Atom Z530 or above
- Memory: ≥1GB
- HD: ≥16GB
- Display: 1280*1024 resolution;
- Screen size: >7.9Inch
- OS: Windows 7
- WiFi