

# EVS 4343W

The EVS 4343W is a 17x17-inch highly reliable wireless detector for digital radiographic applications delivers high sensitivity, low noise and superior image quality. Its reliable and precise Lossless AED/AWC feature enables a fast and smart workflow with fast image acquisition time. This versatile wireless DR detector allows for quick and easy integration and multi-purpose clinical applications.

## Imaging Specifications

Model Name	EVS4343W
Technology	a-Si TFT with photodiode
Scintillator	CsI:TI / Gd <sub>2</sub> O <sub>2</sub> S:Tb
Imaging area size (mm)	430 x 430
Pixel Matrix (Resolution)	3,072 (V) × 3,072 (H)
Pixel Pitch(μm)	140
Limiting Resolution (lp/mm)	> 3.6
MTF (%)	81% @ 1lp/mm (TVA) 69% @ 1lp/mm (Raw)
DQE (%)	≥ 60% @ 0.5lp/mm
A/D Conversion	16-bit
Energy Range (kVp)	40 – 150
Typical Dynamic Range (μGy)	70
Trigger Mode	Lossless AED/AWC
Preview Image Time (sec.)	≤1 sec. (※ EWT at 0.5sec.)
Detector Cycle Time (sec.)	≤3.6 sec. (※ EWT at 0.5sec.)
Input Voltage	DC +15V, 3A MAX
Power Consumption	24W (Max)
Data Output/Interface	Gigabit Ethernet
No. of Image Files in Internal Storage*	100 images

\* Only available in CR Mode

## Mechanical Specification

External Dimension	460 (W) × 460 (L) × 15 (D)mm [±0.5 mm]
Weight	3.4kg (7.6lb)
Detector Housing Material	Aluminum
Sensor Protection Material	Carbon fiber and aluminum plate
Weight Limit	Uniform load 150kg, Point load (100kg Φ 40mm(1.6 in.))
Ingress Protection	IP54

## Battery Pack Specifications

Model	EVS-MBP-Y
Cell Type	Lithium Polymer
Number of Cells	2S1P (2series 1 Parallel)
Rated Power Supply	Output : DC +7.4 V
Lifetime	Approx. 500 cycles of use (complete charge/discharges 1 cycle)
Dimensions (W x H x D)	163 mm x 148 mm x 7 mm
Weight	0.24 kg

## Battery Time

Battery Full Charge Time	2hours (when using EVS battery charger)
Image Acquisition Mode	5hours 30minutes (at 90 sec. acquisition intervals)
Intermittent Image Acquisition (Image Acquisition-Sleep mode)	9hours
Number of Images (Charged 100% to 0%)	220 images (at 90 sec. acquisition intervals)

## Operating Console

CPU	Intel i5-6500
RAM	8 GB
Local Storage	Hard disk capacity: 1 TB Image storage capacity: more than 15000 images at full resolution
Operating System	Windows 7 Pro 32 / Windows8, Windows10

Image Size	Up to 19 MB depending on the exam type, without any compression
Patient Data Input	Keyboard, HIS/RIS connection
Cycle Time	≤ 7 sec
Connectable Sensors	Up to 3 digital detectors with semi-automatic selection according to the selected procedure
Image Zoom	Full expand 200% , Partially expand 400%
Exam Preparation and Image Acquisition Features	<ul style="list-style-type: none"> <li>- Automatic data input from RIS/HIS via DICOM Modality Worklist query</li> <li>- Manual input of patient data via keyboard.</li> <li>- Automatic selection of exam procedure based on Worklist</li> <li>- Projection guide for the selected projection.</li> <li>- Dose per area product reading is displayed on the workstation monitor and is automatically burned in the DICOM header (if the generator is connected to a compatible DAP camera)</li> <li>- APR program and AEC settings with compatible generators.</li> </ul>
Image Processing Features	<ul style="list-style-type: none"> <li>- Optimized image processing parameters. APR specific default values with manual adjustment if desired</li> <li>- Image rotation in 90° steps</li> <li>- Horizontal/Vertical mirroring</li> <li>- Automatic image cropping to collimated area</li> <li>- Manual image cropping (Rectangular, circular)</li> <li>- Adding digital markers to the image</li> <li>- Invert image</li> <li>- Stitching images</li> <li>- Apply annotations (Arrow, Draw line, Draw figures, predefined text, free text, VHS, Grid line)</li> <li>- Measurement tools (angle, distance, Cobb's Angle)</li> <li>- Measurement tool for veterinary specialized (TPLO, TTA, Noberg)</li> <li>- Display multi-image (1x2, 2x1, 2x2, 3x3, 4x4)</li> <li>- Truview® ART (Improve MTF)</li> <li>- Histogram</li> <li>- Manual adjustment the LUT, window and level</li> <li>- Image Wizard (8 types of images are shown based on currently set parameters)</li> <li>- Rejected images management and statistics</li> <li>- Quick Exposure Mode</li> <li>- Area Window Leveling</li> </ul>
Image Hardcopy	<p>The Print Layout Editor allows to:</p> <ul style="list-style-type: none"> <li>- Select different printing formats (DICOM, Paper)</li> <li>- Print up to 25 images on one film, according to printer capability (multiple image printing)</li> <li>- Print zoomed images</li> <li>- Print patient and examination data within the acquired images (customizable at configuration)</li> </ul>
Connectivity	System can be connected to DICOM-compatible devices through Ethernet port.
Supported DICOM Classes	<ul style="list-style-type: none"> <li>- Print (SCU)</li> <li>- Storage (SCU)</li> </ul>

	- Modality Worklist (SCU) - MPPS (SCU)
Media Device	The workstation is equipped with a CD/DVD burner to export acquired images in DICOM format with internal DICOM viewer. (Possible to Export other image format (BMP, JPG, PNG, TIF) in drive storage.)
DICOM Output	10, 12, 16 bits (Depend on detector`s image bits stored)
Data Safety and Privacy	Password protection and account management.

*\* All features can vary by hardware and software compatibility of the device connected*

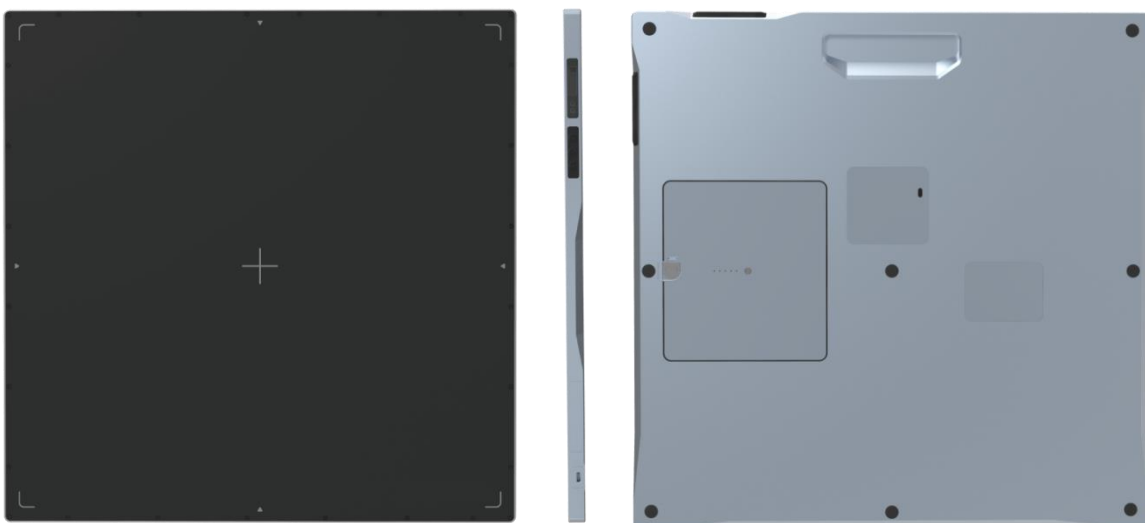
## Operating/storage Environment

Be sure to use and store the equipment under the conditions described below.

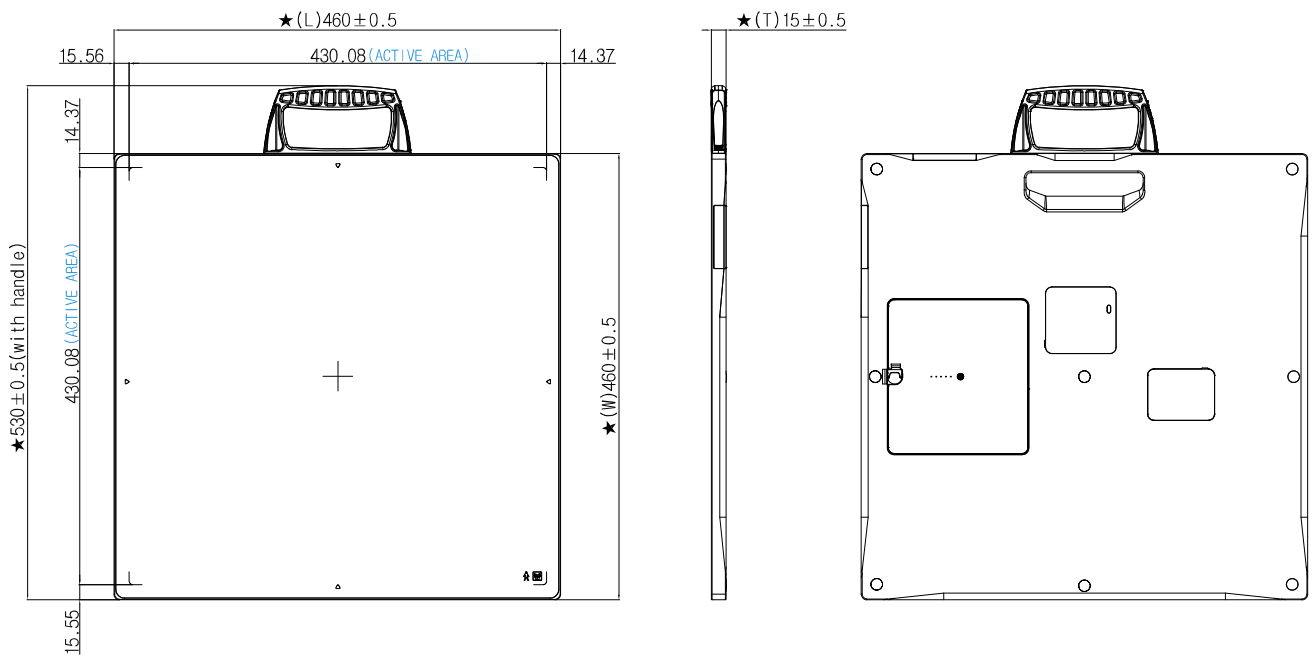
	Operation	Storage	Transit
Temperature	10 to 35 °C (+50 ~ 95°F)	-15 to 55 °C (+5 ~ 131°F)	-15 to 55 °C (+5 ~ 131°F)
Humidity	30 to 85% RH (Non-condensing)	10 to 90% RH (Non-condensing)	10 to 90% RH (Non-condensing)
Atmospheric Pressure	700 to 1060 hPa	500 to 1060 hPa	500 to 1060 hPa

## Dimensional Diagram

### Detector



(unit: mm)



Note: Information contained in the document may be subject to change without prior notice.



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