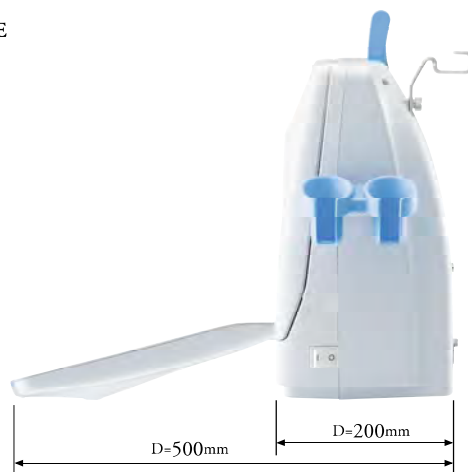


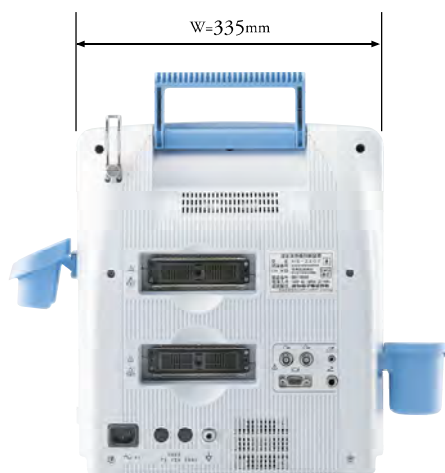
FRONT



SIDE



BACK



Specifications

<b>Scanning Method</b>	Linear/Convex Electronic Scan	
<b>Display Mode</b>	B, B/B, B/Z, B/M, M	
<b>Range</b>	0-20 mm to 0-240 mm (10mm step)	
<b>Focusing Method</b>	Full Digital Beam Forming, Continuous Dynamic Receiving Focus 4 Stage Dynamic Transmission Focus	
<b>Ultrasound Frequency</b>	1.5 to 12.5 MHz	
<b>Display Monitor</b>	12.1" SVGA LCD, 8 bits, 256 Gray Scales Wide Viewing Angle(horizontal:170°vertical:170°)	
<b>Image Display</b>	Up/Down, Left/Right, Positive / Negative	
<b>Image Adjustment</b>	B-gain, M-gain	36 to 100dB 1dB step
	Dynamic Range	35 to 95 dB 10dB step(1dB adjustable)
	STC	8 segments
	Acoustic Power	20% - 100%(10% step)
	γ correction	5 types(max. 10)
	H-res (Image Enhancement)	Soft: OFF and 4 level Edge: OFF and 3 level
	Sweep Speed	5 steps
<b>Cine Memory</b>	255 frames	
<b>Measurement Function</b>	Distance, Circumference / Area, Volume, Tendon%, Histogram, Velocity, LV Calculation, Gestational Tables for all Large, Small Mixed Animal Practices	
<b>Character Display</b>	Hospital Name(40), Patient Name(30), ID (10), Age, Sex, DOB, Date, Time, Probe type, Range, Gain, Acoustic Power, Dynamic Range, Gamma, H-res, Gray Scale, Frequency, Focus Information	
<b>Probe Connector</b>	2(selected by keyboard)	
<b>Dimension</b>	Approx. 335 (W) × 200 (D) × 380 (H) (mm)(keyboard closed) Approx. 335 (W) × 500 (D) × 380 (H) (mm)(keyboard opened)	
<b>Net Weight</b>	11 kg approx.	
<b>Power Source</b>	100V~240V AC±10% 50/60Hz 150VA	
<b>Data Storage</b>	Still Image(Jpeg, DICOM)	Internal(100 images max.) External USB Memory
<b>External I/O</b>	Moving Image(AVI)	External USB Memory
	USB Memory Port	×1
	Video Output	×2 Channel(composite video)
	External Monitor	×1 Analog RGB
	Printer Remote Port	×1
	Foot Switch Port	×1
<b>Probes</b>	10.0/7.5/5.0MHz 50mm Linear probe(Rectal)	HLV-575M HLV-475M
	11.0/8.5/6.0MHz 40mm Linear probe	HLS-584M
	10.0/7.5/5.0MHz 50mm Linear probe	HLS-575M HLS-475M
	12.5/10.0/7.5 MHz 30mm Linear probe(Small Parts)	HLS-513M HLS-413
	9.0/7.5/5.0MHz 12R Micro-Convex probe	HCS-5712M
	7.0/5.0/3.5MHz 20R Micro-Convex probe	HCS-452M
	9.0/7.5/5.0MHz 20R Micro-Convex probe	HCS-572M
	5.0/3.5/2.8MHz 60R Convex probe	HCS-536M HCS-436M
	9.0/7.5/5.0MHz 10R Micro-Convex probe(OPU)	HCV-4710MV**
	3.0/2.0/1.5MHz 120mm Linear probe	HLV4212M**
	3.0/2.0/1.5MHz 180mm Linear probe (Animal Science)	HLV4214M**
<b>Options</b>	Video Printer , Foot Switch Biopsy Guide , Stand Off	

\*\*Special order probe  
The specifications and appearance are subject to change without notice for improvement.  
Made in Japan

DIAGNOSTIC SCANNER  
Convex / Linear Ultrasonic System

HS-2200V

Our unique technology is the product of our originality and continual pursuance of achieving high quality. It is also our purpose to contribute in ways that will enhance society.



12.1 inch



Medical Division

20 Oyamazuka, Oiwa-cho, Toyohashi  
Aichi 441-3193, Japan  
TEL: +81-532-41-2514 FAX: +81-532-41-4441  
<https://www.honda-el.com/>

Registered company for ISO9001/ISO13485/ISO14001



Attention  
•Contents of this catalog are as of April 14, 2020.  
•The specification and appearance are subject to change without notice for improvement.  
•Actual colors of products and colors of this catalog may a little different cause of printing.

is the trademark of HONDA ELECTRONICS CO.,LTD.  
This catalog is printed by vegetable ink on recycle paper.

20-189

April 14, 2020

For the small, large and mixed animal practice  
Advanced technology and excellent image  
Quality embodied in stylish unit



MADE IN JAPAN





# DIAGNOSTIC SCANNER HS-2200V

HS-2200V is a portable, high resolution, black and white ultrasound imaging system incorporating the latest technologies available into an economical, user-friendly package. High density, multi-frequency transducers provide excellent image quality in rugged field conditions or at the office.



image processing

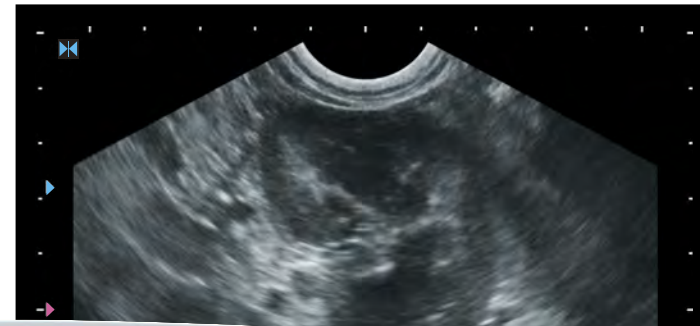
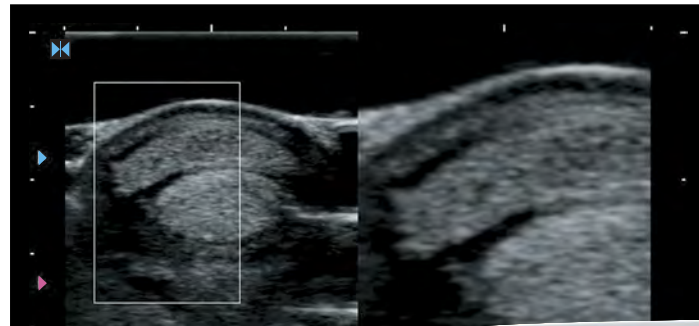
# High Quality

## What you see is reality!

Our HS-2200V Portable Linear/Convex Ultrasound System, the NEW standard for image quality and user efficiency in all large, small and mixed animal veterinary ultrasound procedures.

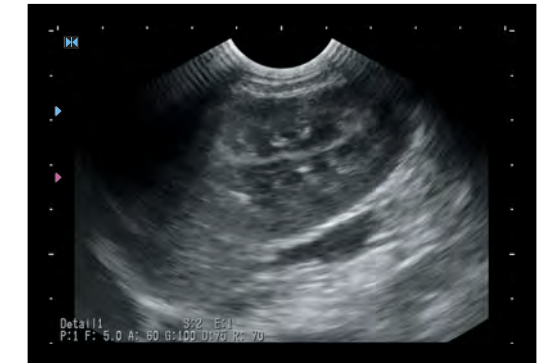
### Features

1. Full digital system
2. Sharp and smooth H-res technology
3. 128-channel high resolution probes
4. Wide screen in a compact body
5. Patient database function
6. Moving image storage
7. Compact body, easy to carry



## Full Digital System

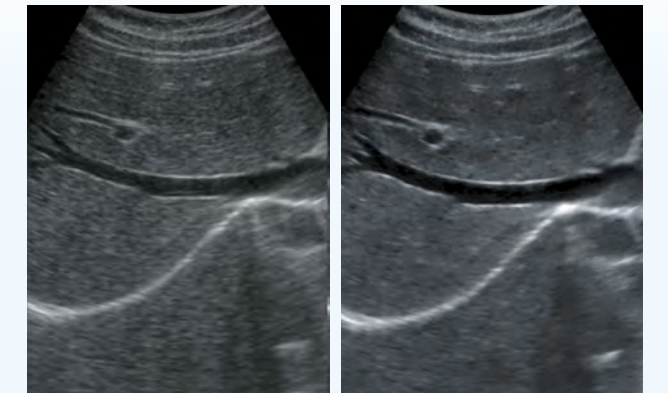
Complete digital technology enables a full screen of continuous focus.



H-res (Our Resolution Technology)

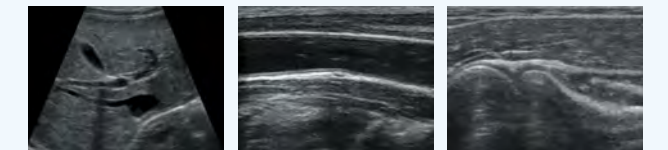


Advanced image enhancement technology, "H-res", brings perfect solution for visibility. Detail1 realizes good resolution in deeper organs. Detail2 visualizes delicate tissue construction in shallower parts. Mild suppresses flutters in smaller effect. You can also turn it OFF to have direct signal image.

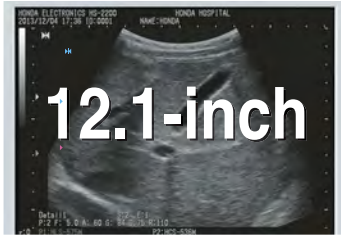


H-res-OFF

H-res-ON







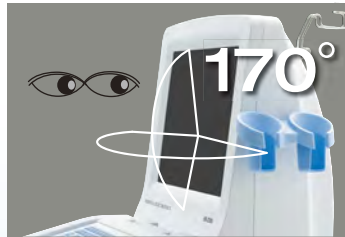
**12.1-inch**  
Absolute wide screen in a compact body.



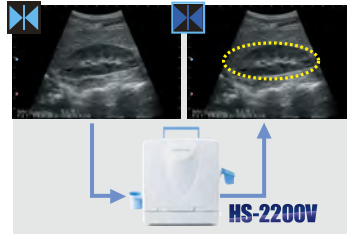
**Contrast**  
Rich gray scale with good linearity gives accurate image.



**SVGA 800 × 600**  
Wide image display on a standard SVGA screen.

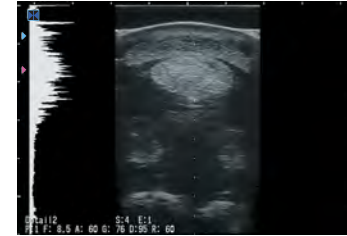


**170° Wide viewing angle**  
enables easy observation in a limited operating environment.



**Measurement function**  
Measurement is prepared for small, large, and mixed animal practice. Scanned images and measurement results can be saved under database with easy operation.

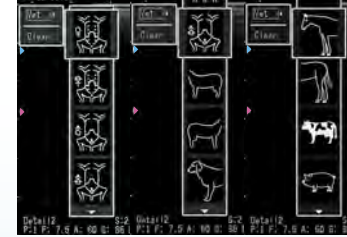
**Database**  
Scanned images can be stored by the patient ID. Measurement of a stored image is also possible.



**A-mode**  
indicates the intensity of echo signal by easy operation.



**Tendon%**  
Measurement results can be displayed in a list for record.



**Body Mark**  
A variety of body marks are prepared to support various observation scenes.

The screen size of HS-2200V is 12.1 inches wide, bringing excellent visibility. The latest LCD technology has made it possible to have a wide 170° viewing angle and brilliant high contrast image. It insures clear image anytime, anywhere.

# Display Monitor Clearness

# Probes

Multi-frequency imaging allows more procedures to be performed with each transducer.

## Wide range of probe selection

### Rectal

Small Animal: abdominal/reproduction  
Large Animal: reproduction/tendon/pleural fluid/MSK  
Exotic Animal: specialty



**HLV-575M**  
**HLV-475M**  
10.0/7.5/5.0 MHz

### Micro-convex

Small Animal: abdominal/cardiac/reproduction  
Large Animal: (swine,sheep,goat,alpaca,llama) reproduction  
Exotic Animal: specialty



**HCS-452M**  
7.0/5.0/3.5 MHz

### Micro-convex

Small Animal: abdominal/cardiac/reproduction  
Large Animal: specialty tendon/MSK  
Exotic Animal: specialty



**HCS-572M**  
9.0/7.5/5.0 MHz

### Convex



**HCS-536M**  
**HCS-436M**  
5.0/3.5/2.8 MHz

### Linear

Small Animal: superficial/abdominal/reproduction  
Large Animal: tendon/MSK  
Exotic Animal: specialty



**HLS-575M**  
**HLS-475M**  
10.0/7.5/5.0 MHz

### Linear

Small Animal: abdominal/cardiac/reproduction  
Large Animal: specialty tendon/MSK  
Exotic Animal: specialty



**HLS-584M**  
11.0/8.5/6.0 MHz

### Linear

Small Animal: abdominal/cardiac/reproduction  
Large Animal: specialty tendon/MSK  
Exotic Animal: specialty



**HLS-513M**  
**HLS-413**  
12.5/10.0/7.5 MHz

### Special Order

Large Animal: (swine,sheep,goat,alpaca,llama)  
Meat Science



**HLV-4212M**  
**HLV-4214M**  
3.0/2.0/1.5 MHz

### Special Order

Internal Biopsy Guide,  
120 Deg Scan Angle  
Large Animal:  
Ovum Pick-up



**HCV-4710MV**  
9.0/7.5/5.0 MHz





# Simple & Useful Operation

All necessary functions come in one compact unit.  
The compact body is easy to carry so it is useful for not only in a clinic or hospital, but also for outside observation. Simple menu system is speedy for daily use.



**Carrying handle**  
Turns out for convenient portability.

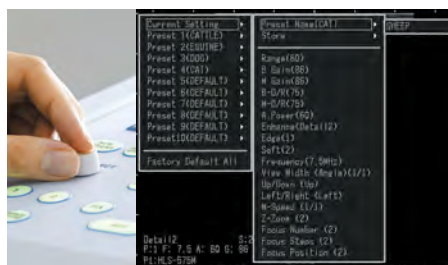


**Palm rest**  
Silicon rubber palm rest supports your palm, allowing for comfort during use for a long time.

Full size keyboard with ergonomic design enables stress free operation.



**Keyboard**  
Ergonomic design with backlit keys supports easy operation even in a dark examination room. Direct key function is also prepared.



**Preset function**  
System setting can be assigned to function keys up to ten settings and can be easily recalled.

**Smooth operation anywhere**  
Foldaway keyboard and LCD panel make for a slim style unit that is easy to carry.



**Compact design**  
It fits in the limited space with its slim style design.

**Output**  
Image output signal is available in both PC format (SVGA) and TV format (NTSC/PAL)



**USB memory usable**  
When a USB memory is inserted, records can be done directly into the USB memory. Moving images can also be stored to the USB memory in AVI format.



**World network**

Honda has a worldwide distributor network and supports the after service and maintenance after sales. Please contact your local distributor. They always have direct connection to Honda Electronics.



**Made in Japan**  
This product is assembled in Japan. Honda produces even the ultrasound sensor ceramics in its own factory.