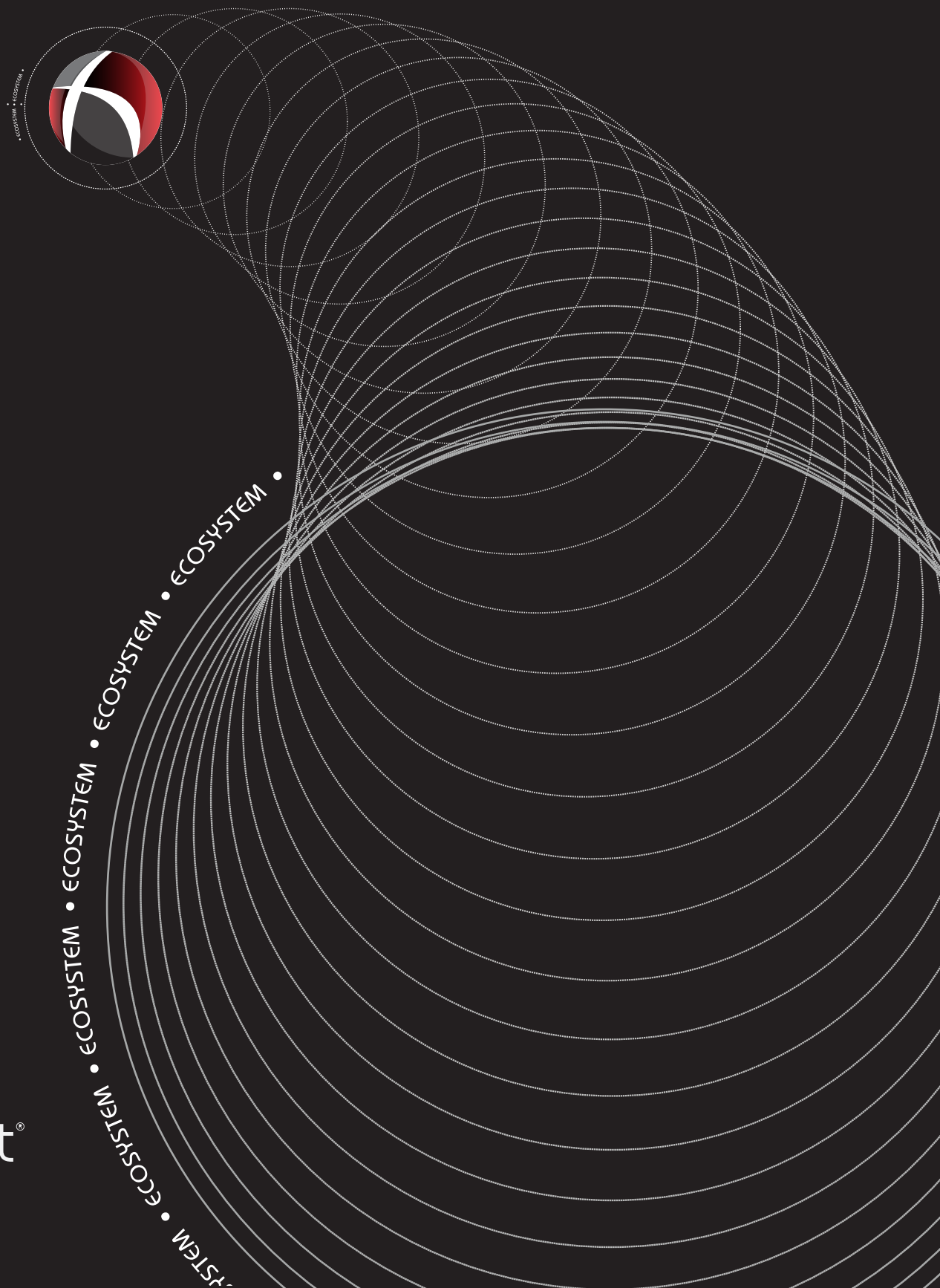
PRODUCT CATALOGUE
HASVET ECOSYSTEM



hasvet®

4444 VET 638

Hasvet
ecosystem

Hasvet was founded with the purest dreams possible on earth...Our starting point was TRUST.

It was founded by innovative veterinarians, who had no desire other than to offer the best to their colleagues, to carry out everything they promised, with an honest and trust-based business model.
Hasvet has become a big family with people who are happy not with the goals of profitability, but with love and at peace with doing their best while doing their jobs.

We have learned from our experience that all jobs are essentially the same, the important thing is the value you add to your job, to the sector you are in and to your stakeholders. Since day one, we have tried to offer the best to our sector together by pushing the limits of what we can do. We continue to work without slowing down by keeping our energy alive, our minds young and believing in the future without compromising our work ethic.

Our vision is to create a living ecosystem by displaying a patient-oriented approach, and to illuminate every point of veterinary medicine by brightening each structure of this ecosystem separately and obtaining a strong and single light. Our goal is to strengthen this unique set of values with innovative ideas and different perspectives, and to strengthen our colleagues, who are our companions on this road.

In a perfect structure designed to fully respond to all the needs of our sector, we constantly add a new ring to each chain of the "Hasvet Ecosystem", and we advance in our journey with more confident steps by growing and getting stronger. With the Hasvet Family, which is expanding day by day, we provide a fast and accessible service network by going beyond our country's borders.

We accompany our colleagues in their development and transformation journey with the benefits of "Hasvet Ecosystem", which includes all the solutions such as medical devices, surgical instruments, practice management software systems, industrial clinical equipment and pharmaceuticals that constitute the world veterinary health sector.

We put science and education at the top of our values in order to contribute to the professional development of each of our colleagues, to be with them in the diagnosis and treatment of each patient, and to make the lives of our healthy friends comfortable.

With the strength we give to each other we look forward to the dreams of the future we have made together, and we express our sincere gratitude to all our colleagues who did not leave us.

Hidayet ŞİMŞEK
DVM, MBA
Hasvet Inc. Chairman of the Executive Board

hasvet®

838 UHF100

High-Frequency X-Ray Device
100 mA

Technical Specifications

- Maximum Power: 5.0 kW
- Power Capacity: 100 KV 50 mA
- Radiographic kV: 4050 kV, 4060 kV, 4080 kV, 40100 kV
- Radiographic mA: 100 mA, 80 mA, 63 mA, 50 mA, 40 mA, 32 mA
- mAS range: 0.32-315 mAs
- Exposure Range: 0.01 - 6.3s
- Operating frequency: ≥30 kHz
- Operating voltage: 110V/220V ± 10%, 50Hz/60Hz
- Dimensions: 370 mm x 260 mm x 230 mm
- Inverter method: PWM (Pulse Width Modulation)

Key Features

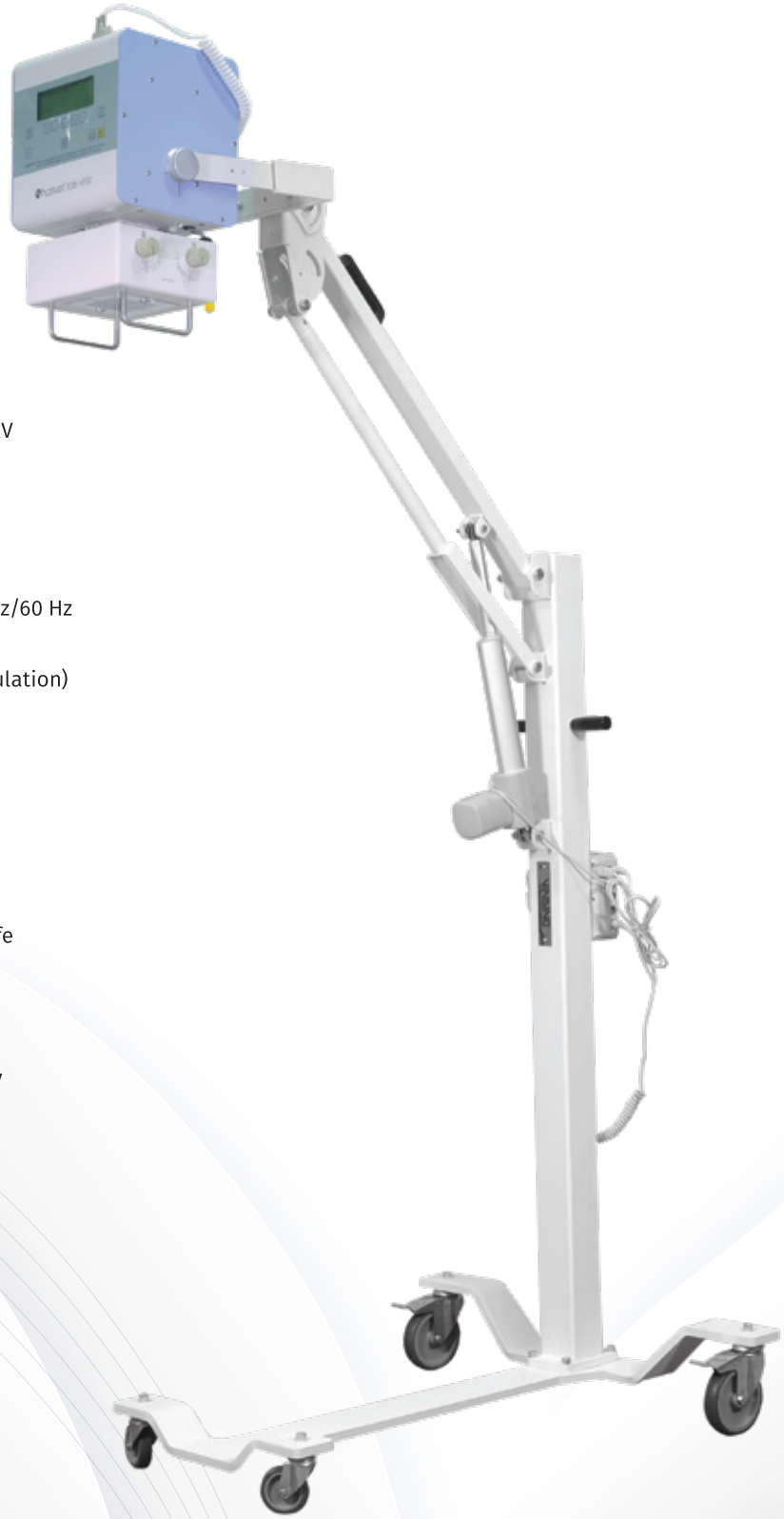
- High frequency inverter technology
- Smart troubleshooting system
- Self-protection feature extending tube life
- Exposure with wireless control or button
- User-friendly digital interface
- Software development kit (SDK) protocol
- Easy to use in the field due to portability

VINDINO®
VETERINARY INDUSTRIAL INNOVATION

hasvet®

838 HF50

High-Frequency X-Ray Device
50 mA



Technical Specifications

- Maximum Power: 3.5kW
- Power Capacity: 70 KV 50 mA
- Radiographic kV: 4070 kV, 4090 kV, 40110kV
- Radiographic mA: 50 mA, 40 mA, 32 mA
- mAS range: 0.32200 mAs
- Exposure Range: 0.01 – 4 s
- Operating frequency: ≥30 kHz
- Operating voltage: 110V/220 V ± 10%, 50 Hz/60 Hz
- Dimensions: 370 mm x 260 mm x 230 mm
- Inverter method: PWM (Pulse Width Modulation)

Key Features

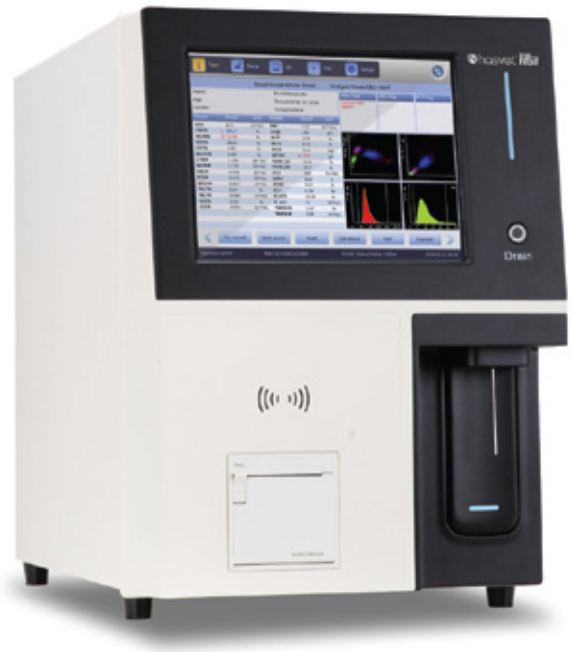
- High frequency inverter technology
- Smart troubleshooting system
- Self-protection feature extending tube life
- Exposure with wireless control or button
- User-friendly digital interface
- Software development kit (SDK) protocol
- Easy to use in the field due to portability

VINDINO®
VETERINARY INDUSTRIAL INNOVATION

hasvet®

VH5R PLUS

Laser Hematology Analyzer



29 PARAMETERS
• RETICULOCYTE MEASUREMENT
• 5-PART LEUKOCYTE ANALYSIS (5 DIFF)

· Laser light multidimensional cell classification
· Up to 60 samples per hour
· WIC and WOC for WBC calculation
· 2 histograms for RBC and PLT
· 2 scatter diagrams:
-5-part differential scatter diagram
-Eosinophil and neutrophil scatter diagram

VH5R+

PARAMETERS

34 Parameters: WBC, LYM%#, MON%#, NEU%#, EOS%#, BASO%#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW_CV, RDW_SD, PLT, MPV, PDW, PCT, P_LCC, P_LCR, RET%, RET_ABS, IRF, NRBC%#, LIC%#, ALY%#
2 Histograms for RBC and PLT, 2 Scattergrams for WBC Diff, 2 Scattergrams for Reticulocyte

· 13 animal types including Dog, Cat, Horse, Monkey, Goat and Sheep, etc. +20 self-defined animals
· WBC/DIFF: Flow Cytometry, Semiconductor laser light multi-dimensional cell classification
· WBC Analysis: Laser and impedance method
· RBC/PLT: Impedance method
· HGB Test: Cyanide-free reagent colorimetry
· 10.4” touch screen
· Uses diluent, sheath, detergent, lyse reagents
· WBC 100 µm, RBC/PLT 68 µm aperture diameter
· Store more than 200,000 samples with graphics
· Error messages alarm
· evet Software integration

VH3 PLUS

Hematology Analyzer

21 PARAMETERS
• 3-PART LEUKOCYTE ANALYSIS (3 DIFF)
• GRANULOCYTE, LYMPHOCYTE AND MONOCYTE MEASUREMENT

3-part WBC, 21 parameters with 3 histograms
· Wide color LCD screen & Linux operating system
· Data backup & System update from USB
· Excellent data management with mouse and keyboard
· 70 samples per hour
· High efficiency self-control system, low maintenance cost

PARAMETERS

WBC, LYM#,MID#, GRAN#, LYM%, MID%, GRAN%, RBC, HGB, HCT, MCV, MCH, MCHC, RDWCV, RDWSD, PLT, MPV, PDW, PCT, PLCR, PLCC

· 13 animal types including Dog, Cat, Horse, Monkey, Goat and Sheep, etc. +20 self-defined animals
· WBC/RBC/PLT: Electric impedance method
· HGB: Photoelectric colorimetry
· 10.4” touch screen
· WBC 100 μm, RBC/PLT 68 μm aperture diameter
· LIS, HIS support with HL7 protocol
· Control and Calibration: LJ, X, XR, XB 4 control modes, manual and automatic calibration
· Standard mouse and keyboard USB input
· Store more than 100,000 samples with graphics
· Error messages alarm
· evet Software integration

838 CA
Coagulation Analyzer

A portable, intuitive veterinary diagnostic device that can quickly detect patients' hemostatic function

- Applied gold standard optical coagulation method
- Instant test result with 20 µL of whole blood
- 7 inch touch screen, user-friendly interface, simple operation
- 5 types of coagulation tests
- Stores 1,000 test results
- Reagents preserved at room temperature for 18 months
- Automatic calibration

Tests

- **Prothrombin time (PT)**

Prothrombin time evaluates extrinsic (tissue factor and factor VII) and common system (Factor V, Factor X, prothrombin, fibrinogen). It can be used to monitor oral anticoagulant treatments.

- **Activated partial thromboplastin time (APTT)**

Activated partial thromboplastin time is the most sensitive and specific test of the intrinsic and common system.

- **Thrombin time (TT)**

Thrombin time is a simple test used for evaluation of coagulation detection, anticoagulation and the fibrin system functions.

- **Fibrinogen (FIB)**

Hypofibrinogenemia may develop as a result of impaired hepatic synthesis of fibrinogen, increased consumption during DIC, degradation during primary hyperfibrinolysis, or uncompensated loss during diffuse hemorrhage.

- **Activated coagulation time (ACT)**

Activated clotting time is a simplified variation of the APTT used to identify defects of the intrinsic or common system.

838 IA

Immunofluorescence Quantitative Analyzer

Your laboratory's new favourite, intuitive veterinary diagnostic device with the assurance and technical support of Hasvet Medical

- Immunofluorescence technology
- 3 ~ 15 minutes of test time
- Intuitive touch screen
- Maintenance free original technology
- Multilingual operating system
- Reagents preserved at room temperature for 24 months

Tests

Hormone

- T4 (Thyroxine)
- TSH (Thyroid Stimulating Hormone)
- Cortisol
- Progesterone

Acute Phase Proteins

- cCRP (C-Reactive Protein)
- fSAA (Feline Serum Amyloid A)

Coagulation Marker

- D-dimer

Diabetic Mellitus

- HbA1c (Haemoglobin A1c)

Pancreatitis

- cPL (Canine Pancreatic Lipase)
- fPL (Feline Pancreatic Lipase)

Cardiac Biomarker

- NT-pro BNP

Tests to be included

Cystatin C, Troponin I, AFP, CEA, FIV, FeLV, SDMA, Troponin, CREA, SAA (At), CAV Ab, CDV/CPV/ICH Ab, CAV Ab

hasvet®

Blood Mixer

Rolling Speed: 1080 rpm/min
Roll Space: 22mm±1mm
Operation Mode: Continuous
Dimensions: 35x27x10cm
Net Weight: 3.6kg
Power: 12w

Speed: 1000-4000 rpm
Capacity: 12x20 ml
Time Setting: 0-30 minutes
Power: 220V 50Hz 135W
Dimensions: 280 x 310 x 265 (WxLxH)
Net Weight: 12 kg

Datalogger

Easy data transfer with USB computer connection
A total of 20,700 data recordings at 8 seconds ~ 4 hour intervals
Resistant to water splashes and drops
Compatible with Windows XP, Windows Vista, Windows 7 and Windows 8
≤ 20°C to 60°C reading range

ultraviolet A ray passing through a nickel oxide filter. The main purpose of Wood's light examination is to make some substances visible to the naked eye by utilizing its fluorescence feature. Fungal-infected hairs show a yellow-green or green-blue glow under ultraviolet light.

VUC

Urine Analyzer

- 13+1 Parameters: WBC, KET, URO, BIL, PRO, GLU, SG, BLD, pH, VC, CR, CA, MA + PCR
- Dual wavelength reflectance photometry (470 nm, 550 nm, 620 nm, 720 nm)
- Ergonomic and lightweight design
- Color LCD touch screen
- Software developed for veterinarians
- Multi-language support
- USB, Bluetooth connection support
- Operates 300 tests with a full charge

VUS

Veterinary Urinary Sediment Analyzer

Specifications:

Principle: Automatic recognition of digital images

Parameter: 1. Auto-particle recognition : RBC,WBC, SQEP(squamous epithelial cells), NSE(non-squamous epithelial cells), HYA(-cast),UNCC, CAOX(calcium oxalate crystal), BACT(bacteria), yeast, and etc.

2. RBC phase detection

3. Receive URIT series urine dry chemistry analyzer's test data

Throughput: More than 50 samples / Hour

Sample: Native urine samples or urine sediment samples

Sample volume: Minimum volume: 1.2 ml

Sample Treatment: Automatic sampling, diluting, dying, blending, screening, image acquiring, particle counting, data saving, flow cell and probe washing, printing

Counting cell: Double channels

Accuracy: Over 95%

Memory Capacity: More than 50,000 results

Printer: Thermal printer (Other choice : laser priter or ink printer)

Interfaces: RS-232 SERIAL PORT, USB, TCP / IP Ethernet

838 PM

Mini Patient Monitor

- The world's smallest and user-friendly bedside monitor
- SPO_2, PR, NIBP (blood pressure), body measurement (°C)
- Accurate measurement at 0.05% low perfusion
- Perfusion index meter (Perfusion index 0.05%-20%)
- Accurate measurement even in extreme conditions such as neonatal patients and shock
- Two different measurement modes: Spontaneous (instant) and Monitorization
- Data storage feature provides monitoring historical data and see the graphic trend
- Enables to receive 48 hours of continuous data in observation mode

Display: 3.5 inch, TFT color screen
Resolution: 320x480 px
Alarm Modes: Visual and Audible
Battery: Lithium

Hasvet 838 PM Mini Patient Monitor

It has been designed as to be used in veterinary practices and hospitals to provide an optimum environment in cases that require critical and special care, during the recovery period from anesthesia after surgery, in patients who have respiratory tract disorders and need to take special medication with oxygen and/or nebulization, and in newborn animal care.

838 PMC

Mini Patient Monitor

- The world's smallest and user-friendly bedside monitor
- SPO_2, PR, NIBP (blood pressure), $EtCO_2$ measurement
- Accurate measurement at 0.05% low perfusion
- Perfusion index meter (Perfusion index 0.05%-20%)
- Accurate measurement even in extreme conditions such as neonatal patients and shock
- Two different measurement modes: Spontaneous (instant) and Monitorization
- Data storage feature provides monitoring historical data and see the graphic trend
- Enables to receive 48 hours of continuous data in observation mode
- Lithium battery power supply
- Mobile charging unit

Display: 3.5 inch, TFT color screen
Resolution: 320x480 px
Alarm Modes: Visual and Audible
Battery: Lithium

$EtCO_2$ range	Measurement Accuracy
0-40 mmHg	±2 mm Hg
41-70 mmHg	%±5
71-100 mmHg	%±8
101-150 mmHg	%±10

Hasvet 838 PMC Mini Patient Monitor

It has been designed as to be used in veterinary practices and hospitals to provide an optimum environment in cases that require critical and special care, during the recovery period from anesthesia after surgery, in patients who have respiratory tract disorders and need to take special medication with oxygen and/or nebulization, and in newborn animal care.

Cryo Systems

MC-150 Cryoset
(350 / 500cc)

Liquid Nitrogen Unit

- MC-150 Cryo set, which is desinged ergonomically.
- Using this system is so easy and safe.
- It is safe to fill the liquid nitrogen.
- It can be used after just a minute to fill the liquid nitrogen.
- The tumbler and valve system sprays safe.
- It is prodeced by cr-ni materials so it does not rust or break.
- There are a lot of special contact and spray tips (optional).
- Cryo set has 2 years warranty.

Hasvet 838 K

Monopolar Electrocautery

- 100 Watt power, monopolar electrocautery device.
- Pure cut (1100 Watt, 500Ω load), mixed cut (150 Watt, 500Ω load), coagulation (180 Watt, 500Ω load) and soft coagulation (140 Watt, 500Ω load) modes
- Automatic visual acoustic monitorization and wide warning system
- Wide range and constant current power frequency output options
- 330-460 kHz application frequency
- Automatically cut off the power output in case of any interruption
- Control with hand or foot (Optional)
- Accessories: 1 patient chassis cable, 2 monopolar pens, 2 patient chassis

HASVET 838K Monopolar Cautery Pencil

It is used safely with 4 different working modes in wide surgical applications such as general surgery, urology, gynaecology, thoracic surgery and oncology. 4 different monopolar operating modes have international standards.

Hasvet 838 BK

Bipolar Electrocautery

- 100 Watt power, bipolar electrocautery device.
- Pure cut (1100 Watt, 500 Ω load), mixed cut (1100 Watt, 800 Ω load), coagulation (160 Watt, 1KΩ load), soft coagulation (0.135 Watt, 1 KΩ load), Bipolar coagulation (180W, 200Ω) modes
- 10 programmable power profiles
- Automatic visual acoustic monitorization and wide warning system
- Wide range and constant current power frequency output options
- 357 - 575 kHz application frequency
- Automatically cut off the power output in case of any interruption
- Control with hand or foot (Optional)
- Control pedal, 2 disposable ESU pads, 1 reusable ESU pad

HASVET 838BK Bipolar Cautery Pencil

It is used safely with 5 different working modes in wide surgical applications such as general surgery, urology, gynaecology, thoracic surgery and oncology. Besides the international standard cautery pen, used for 4 different monopolar operating modes, bipolar coagulation forceps are available.

Otoscope Ophthalmoscope

838OT Otoscope

- · Fiber optic lighting with xenon halogen technology
- · Homogeneous illumination of the ear canal and eardrum.
- · Anti-scratch image window with 3x magnification.
- · Durable construction and easy cleaning.
- · 6cm in length and 4 and 6mm in diameter
- · With veterinary-specific specula.
- · Rechargeable battery and desktop battery charging station with light warning.

838OP Ophthalmoscope

- Fiber optic lighting with xenon halogen technology
- Compatible lens array from -20 D to +20 D.
- 5 different light beams.
- Durable construction and easy cleaning
- Rechargeable battery and desktop battery charging station with light warning.

838OP

838OT

838OT&OP

Hasvet Otoscope Ophthalmoscope Unit

With the assurance of Hasvet, an otoscope ophthalmoscope is at your hand with the option of a single charging unit.

EV - 838

Microchip Reader

Features:

- Using wireless identification technology, EMID, FDX-B (ISO11784/85) etc. It is a low frequency microchip reader that supports reading tags.
- It can transfer instant data to your phone and computer with Bluetooth and Wi-Fi support.
- It can work fully integrated with E-vet software systems.
- A clear image can be obtained with OLED display technology in a bright environment.
- 3 seconds to the data in its memory with a single button. You can transfer it to your phone or computer by pressing and holding it.
- With Type-C, the new generation data transfer technology, you can perform both data transfer and charging quickly.

Integrated
E-vet / Smartvet Software

Technicial Specifications:

- Model: EV-838
- Operating Frequency: 134.2Khz/125Khz
- Support Tag: EMID, FDX-B (ISO11784/85)
- Read/Write Range: 2-12 mm glass tube tag> 5cm 30 mm animal ear tag> 15 cm (Related to tag performance)
- Standard: ISO11784/85
- Reading Time: <100ms
- EV-838 Display: 0.91 high brightness OLED screen
- Power Source: 3.7V (lithium battery)
- Memory: 128 pieces of information
- Communication: USB2.0
- Language: English or customized
- Operating Temperature: -10 °C ~ 50 °C
- Storage Temperature: -30 °C ~ 70 °C
- Package Size: 17x12x2.5cm
- Weight:110gr

Product Details:
1) Label type
2) USB connection
3) USB type-C port
4) Battery status
5) Tag ID
6) Scan button