



The Draminski 4VetJ provides a sleek and efficient way to perform complex imaging diagnostics with the touch of a finger. As an ultrasound designed to optimize workflow, it provides veterinarians with the tools needed to capture clear imagery and corresponding measurements. The following specifications describe the inner workings of the 4VetJ, ensuring top-quality with each aspect of this ultrasound.

IMAGING MODES

- B, B+B, 4B, M, B+M
- Color, power, and pulse wave doppler

PROBES AND FREQUENCIES

- Convex, 2–8 MHz
- Microconvex, 4–9 MHz
- Linear, 60 mm 5–10 MHz
- Linear, 40 mm 6–14 MHz
- Endorectal, 4–9 MHz

IMAGE MANAGEMENT

- Dynamic focus
- Image freezing
- Zoom 60–300%, 20% per step
- Full screen viewing

IMAGE ADJUSTMENT

- Gain 1 and 2
- Frequency
- Depth
- Focus
- Gamma
- Frame averaging
- Negative

PRESETS

- Customizable
- Needle visualization enhancement (linear probes)
- Mare pregnancy and uterus
- Equine tendons
- Cat abdomen
- Small/medium/large dog abdomen

GRAYSCALE

- 256 shades

POST-PROCESSING (OPTIONAL)

- Speckle reduction
- Contrast enhancement
- Edge sharpening

USER INTERFACE

- Languages: English, Spanish, French, Arabic, Croatian, German, Korean, Polish, Russian

MEASUREMENTS

- Basic: Area, distance, ellipse, grid, stenosis, volume
- Obstetric: Horse DC, horse DO, horse DSG, sheep LLC, Lama DBP, Sow LCC, cow DBP, cow LLC, small/medium dog GS, dog BPD medium, cat >30 HD, BD, CRL, and GSD

OPERATING SYSTEM

- Integrated with PC

MONITOR AND FUNCTIONS CONTROL

- Resistive touch panel
- LCD LED display

MEMORY AND IMAGES

- 100 GB
- Images and cine loops include description, date, and patient data

DATA TRANSFER STANDARD

- DICOM 3.0

DATA EXPORT

- Wi-Fi 802.11 b/g/n
- USB

EXTERNAL PORTS

- USB 3.0
- USB 2.0
- LAN
- HDMI

POWER SUPPLY

- AC adapter
- Input: 50–60Hz, 90–264 VAC
- Output: 18V DC/5A
- Li-Ion battery, 14.4V, 259Wh, 18Ah
- Operates 6+ hours on one charge
- Full charge in 5 hours, 70% charge in 3–4 hours
- Low-battery indicator graphic

INCLUDES

- 4VetJ body
- Probe with cord wrap
- Battery pack and charger
- 4-stage tilt stand
- Durable transport case
- Stylus



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mesa²

The Mesa 2 Rugged Tablet brings with it a whole new data collection experience. As the first Juniper Systems device to run a full Windows® operating system, the Mesa 2 allows you to collect and analyze your data from start to finish, without ever touching a desktop. The following specifications describe the inner workings of the Mesa 2, ensuring absolute ruggedness and reliability, and enabling it to become your office, anywhere.

PROCESSOR

- Quad-core Intel® Atom™ Z3745 processor

OPERATING SYSTEM AND SOFTWARE

- Microsoft® Windows 10 or Android™ 5.1 (not compatible with Google Play store/Google services)
- Multiple languages supported (English, French, Spanish, German, Portuguese)

MEMORY AND DATA STORAGE

- 4 GB RAM (LPDDR3)
- 64 GB or 128 GB flash storage options
- User-accessible MicroSDXC card slot

GRAPHICS

- Intel® HD Graphics



DISPLAY

- Active viewing area: 7" (178 mm)
- Resolution: WXGA (1280 x 800)
- High-visibility backlit LCD for best-in-class sunlight view-ability
- Portrait or landscape orientation with automatic screen rotation

TOUCH SCREEN

- Projected capacitive multi-touch interface for use with gloves, small tip stylus, and in wet conditions
- Optically bonded for increased visibility and strength
- Chemically-strengthened Dragontrail™ High Ion-Exchange (HIE™) cover glass for excellent impact and scratch resistance

KEYBOARD

- Adjustable LED backlit keys
- Four-way directional navpad
- Windows/home key
- Power key
- Enter key
- Three user-programmable function keys
- OEM configurable/customizable



PORTS

- USB 3.0 x 1
- 3.5 mm audio jack
- 12 VDC power input jack
- Docking port connections (Pwr, USB 2.0, & HDMI)
- Loud output speaker for noisy environments
- Dual digital microphone input for improved clarity
- Optional RS-232 9-Pin D-Sub connector with 5VDC power output

BATTERY

- Removable Li-Ion battery, 39 Whr
- Operates 8–10 hours on one charge
- Removable battery, easily changeable in field
- Optimized for strong performance in cold temperatures
- Excellent lifecycle performance
- Optional internal 19-Whr battery provides hot-swap capability and an additional 4–5 hours runtime

PHYSICAL

- Size: 5.40" w x 8.48" l x 1.36" d (137 x 215 x 35 mm)
- Weight: 1.5–2 lbs (680–907 g) depending on battery configuration
- Durable, chemical- and shock-resistant design
- Easy-to-grip, impact-absorbing, overmolded bumpers
- Lightweight and ergonomic design

JUNIPER RUGGED™

- IP68 waterproof and dustproof
- Operating temperature: -4 F to 122 F (-20 C to 50 C)
- Storage temperature: -22 F to 158 F (-30 C to 70 C)
- Shockproof: multiple drops from 4' (1.2–1.5 m) onto concrete
- Designed for MIL-STD-810G test procedures: Method 500.5 Low Pressure (Altitude); Method 501.5 High Temperature; Method 502.5 Low Temperature; Method 503.5 Temperature Shock; Method 506.5 Rain; Method 507.5 Humidity; Method 510.5 Sand and Dust; Method 512.5 Immersion; Method 514.6 Vibration; Method 516.6 Shock

WIRELESS CONNECTIVITY OPTIONS

- Long-range Bluetooth® Smart Ready Smart Ready wireless technology, v4.0 +EDR, Class 1.5, BLE support
- Wi-Fi® 802.11 a/b/g/n, 2.4 GHz and 5 GHz
- 4G LTE, support for GSM or Verizon (Windows 10 only)

CAMERA (GEO MODELS)

- Rear: 8 MP with LED illumination
- Front: 2 MP
- Juniper Geotagging™: embed photo with date, time, and GNSS position

GPS/GNSS (GEO MODELS)

- 2 to 5 meter typical accuracy
- uBlox NEO-M8N GNSS receiver and integrated antenna
- Integrated real-time SBAS receiver (WAAS, EGNOS, etc.)
- 72 GNSS tracking channels
- Optional: uBlox NEO-M8T w/post-processing capability and external GNSS antenna pass-through connection for sub-meter accuracy

BARCODE 1D/2D IMAGER (BARCODE MODELS)

- Optional built-in barcode imager and decoder
- Symbolologies: all common 1D and 2D (PDF 417, MicroPDF417, Composite, RSS, TLC-39, Data matrix, QR code, Micro QR code, Aztec, MaxiCode, Postal codes, etc.)
- Programmable trigger buttons
- Visible aiming bullseye with low-light illumination
- Barcode Connector™ Utility, wedge and configuration, SDK support available

UHF RFID (RFID MODELS)

- Optional built-in UHF RFID module and internal antenna
- Region-specific frequency configurations (859–873 MHz & 915–930 MHz)
- EPCglobal Gen 2 (ISO 18000-6C) protocol support
- Wide output range (0 dBm to +27 dBm)

OTHER FEATURES

- Ambient light sensor
- Compass
- Accelerometer
- Gyroscope
- TPM (Trusted Platform Module) v2.0

CERTIFICATIONS AND STANDARDS

- FCC Class B
- CE Marking (applicable EMC, R&TTE, and LVD directives)
- Industry Canada
- EN60950 Safety
- RoHS 2 Compliant
- Optional Class I, II, & III, Division 2



STANDARD ACCESSORIES

- Standard removable battery
- AC wall charger with international plug kit
- Capacitive small-tip stylus w/tether
- Quick Start Guide
- Hand strap
- Connector port dust cover
- 2-year warranty



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