Student Technology Fee

Grant Proposal

2009.025

2008-09

Tracy Brown
Approved
Denied
Comment: ________________________________

Diana Hamilton
Approved
Denied
Comment: ________________________________

Gary Gatch
Approved
Denied
Comment: ________________________________

Mike McDonald
Approved
Denied
Comment: ________________________________

Dale Martin
Approved
Denied
Comment: ________________________________
Student Technology Fee
Grant Proposal Request Form
Fiscal Year 2008-09
Northwestern State University of Louisiana

ALL BLANKS MUST BE FILLED COMPLETELY

Prepared by: Brenda R. Woodard For: Veterinary Technology Program
Department/Unit: Biological Sciences College: Science & Technology Campus: Natchitoches
Which NSTEP Goals/Objectives does this project meet? 1, 3, & 9
Requested equipment will be located/installed/housed? Building 090, Bienvenu Hall Room 302/A
Are department property policies and procedures in place for requested equipment? Yes
Which individual will be responsible for property control of the requested equipment?
Signature: Brenda R. Woodard Date: October 31, 2008
Grant Proposal Requested Amount: $41,061.97 Budget Attached (circle one) Yes No
Grant delivered to Student Technology located in Watson Library, Room 113. Date 10/31/2008

The grant proposal must include all specifications, description, model number, quotation, cost, state contract number, and vendor for each item. If the proposal does not include all requested information, it will be returned to requestor.

1. Describe target audience.

Veterinary Technology students are required to complete the veterinary surgery/anesthesia course in their last year. This course (VTEC 2200-2201 Veterinary Hospital Technology II) in many ways is a culmination of coursework completed in the Veterinary Technology curriculum, as it focuses on the patient from the time of presentation until the patient recovers from the surgical or dental procedure.

Students take a patient history, perform a physical examination, draw blood samples and run laboratory screening tests, set IV catheters, administer IV fluids and anesthesia, monitor the patient through the anesthetic recovery period, assist in a surgical procedure or dental prophylaxis procedure, stay with the patient until recovered from anesthesia, detail the patient's discharge summary, and prepare the surgical instruments and laboratory for subsequent procedures, all under the direct supervision of veterinarians and the registered veterinary technician. Students work in groups of 3-4 per animal procedure; enrollment in the laboratory is typically 18-28 students/semester. This is an intensive "hands-on" laboratory that prepares students for board examination and a career as a Registered Veterinary Technician.
2. Describe project/initiative for which you are requesting funds.

We are requesting funds to upgrade technology in the surgery/anesthesia laboratory. We need to update the desktop computer in the office area of this laboratory – this computer is loaded with veterinary practice management software and works as the “server” computer to twelve others in the clinical pathology laboratory and the computer laboratory. Linking these computers allows students to practice using this software as they will in the “real world” because the computer can be used to enter the patient record; the laboratory blood screening machines can report laboratory results directly to this computer. Our current computer is older and quite slow when performing these tasks.

Just released technology in blood chemistry analyzers will keep our clinical pathology laboratory at the current “state-of-the-art.” Since we received a grant last year to update this area for veterinary technology, most of our analyzers are representative of what is available in the workplace, but students will need instruction in the newest blood chemistry analyzer. This machine (IDEXX Catalyst DX Analyzer) will be used for pre-anesthetic screening for liver and kidney disease, diabetes, etc. and will be linked to the server computer.

Surgical procedures performed in the laboratory sometimes entail unusual cases (i.e. the dog who ate a shoe, the puppy whose tummy drug the ground, the rabbit with a tumor, etc.) that provide great learning opportunities for students. We are requesting a digital camera with the capability of capturing images of these procedures in detail (macro zoom) and are requesting a printer to develop poster type presentations of these cases for students who were not there to witness them.

Patient care and monitoring are critical to the outcome of our patients and vital to the learning process for good veterinary technicians. We are requesting the latest technology in anesthetized patient monitoring, so that students will be able to follow the ECG, respiration, temperature, blood pressure, oxygen and carbon dioxide levels of each patient through the anesthesia/surgical procedure. We are also requesting funds for intravenous (IV) fluid infusion pumps in two sizes, for larger or smaller volumes to be infused accurately without danger of overhydration. And finally, IV fluid warmers are now on the market for veterinary patients, and these will help prevent hypothermia in our patients; our students will be trained on their usage in this laboratory.

3. State measurable objectives that will be used to determine the impact/effectiveness of the project.

a. The IDEXX laboratory analyzer, computer, and printer will be installed. The remaining stand-alone equipment will be placed in the laboratory and in use by the students and faculty in veterinary patient care.

b. Students will be instructed in the use of this equipment, and will have access to it for practical application in laboratories.

c. Course syllabi will be updated to reflect the use of this equipment.

4. Indicate how each project objective will be evaluated.

a. The laboratory will be inspected to insure that the requested equipment is properly placed and utilized in the course.

b. The syllabi will be inspected and compared to the existing syllabi to insure that updated patient care techniques have been implemented in the course.
5. If funded, which NSTEP [http://www.nsula.edu/nstep/NSTEP.pdf] objective(s) will this funding of this project advance? How will funding of the project advance the University and College/unit technology plan?

a. This project will advance the following NSTEP objectives:

1. To improve access to technology by students, faculty, and staff at Northwestern State University. Specifically, to expose students to modern laboratory equipment, train them in its use, and give them basic experimental skills required in post-graduate careers.

3. To upgrade laboratories with modern technology. Specifically, to use modern instruments appropriate in complexity for the current "state-of-the-art" in veterinary medicine and technology.

9. To provide and support hardware and software upgrades, new hardware and software for specialized functions, training for technical support personnel. Specifically, the equipment items requested all represent functions specialized for modern veterinary medicine and the training of personnel for the workplace.

b. This project will advance the following University and College of Science and Technology goals:

1. Northwestern State University will endeavor to create and maintain a responsive, student-oriented environment. Specifically, by providing the latest technological advances in veterinary medicine to student instruction, we will respond to the student’s need to be well educated.

2. Northwestern State University will provide programs, services, and operations throughout the University of high quality and effectiveness. Specifically, the Veterinary Technology program is fully accredited by the American Veterinary Medical Association. The next site visit is scheduled for September of 2009. Providing modern technological equipment for student instruction says that we care to provide a high quality educational experience for our students, so that they will be well prepared for board examinations and a career in veterinary medicine.

6. Provide a justification for funding of this project. Estimate the number of student that will be served per academic year and in what ways. Please indicate also any unique needs of the target group.

Veterinary medicine capabilities and technologies continue to advance at a rapid rate; this fact requires that we who are teaching and training Veterinary Technicians keep pace with advancements if we are doing what is best for our students. The Veterinary Technology Program enrollment varies from about 60-80 students total at any given time, and each of these students is required to take the surgery/anesthesia lecture and laboratory in their last year of coursework before a semester-long internship. The course enrollment typically is 18-28 students/semester.

The NSU Veterinary Technology Program is one of only two accredited programs available in the State of Louisiana, and serves to educate students who will become Registered Veterinary Technicians after successfully completing the National Veterinary Technician Examination and applying for registration. This program helps fill a nation-wide shortage of veterinary technicians (this career was listed as a top ten career for the coming years by MSN). It is a necessity that we have the equipment available to train our students well, so that they will be prepared for their internship and their role in the workplace.
7. List those individuals who will be responsible for the implementation of the project/initiative and indicate their demonstrated abilities to accomplish the objectives of the project.

Dr. Brenda Woodard will be responsible for the implementation of this project. She will be assisted by Dr. James Woodard, and Ms. Jessica Hudspeth, RVT in instruction in this laboratory. Because of the intensive nature of this laboratory, each session is team taught with all three instructors present.

8. Describe any personnel (technical or otherwise) required to support the project/initiative.

Technical personnel will be required only to set up the computer and software with the server link. The remaining equipment is “stand-alone” and veterinary technology faculty/staff will become familiar with its use and instruct each student in its use.

9. Provide a schedule for implementation and evaluation.

Equipment will be installed and in use shortly after purchased. The next course sessions are scheduled for the Spring semester of 2009, and use will be fully implemented as soon as funding has been provided and the purchasing process is complete.

10. Estimate the expected life of hardware and software. Explain any anticipated equipment/software upgrades during the next five years.

The expected lifespan of the equipment requested is ten years plus with the exception of the computer and printer, which may need replacement within five years. All specialized software upgrades for the requested hardware are provided free of charge from the vendors. The IDEXX company provides the veterinary management software to our institution free of charge.

11. Explain in detail a plan and policy that will be in place to ensure property security/controls for any equipment received through a Student Technology Fee. If you are requesting equipment that will be either/or checkout to students or moved within the department, you must provide a checkout/loan policy.

The Veterinary Technology Surgical Suite is kept locked when not in use for teaching or veterinary procedures. All equipment requested will be placed in this laboratory with the exception of the clinical chemistry analyzer which will be placed in the clinical pathology laboratory and linked by computer to the surgery laboratory. This laboratory is also locked when not in use.
12. Detailed budget include all specs, pricing and vendors. Any incomplete proposal will be returned.

The budget summary is as follows. Attached are more detailed specifications, quotations, and vendor information.

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. (1) Canon EOS Digital Rebel XTi 10.1 MP SLR Camera w/ lenses</td>
<td>$1,262.03</td>
</tr>
<tr>
<td>(EF 50 mm macro &amp; 28-135 mm zoom) and SD Flash Card</td>
<td></td>
</tr>
<tr>
<td>Vendor: Dell State Contract</td>
<td></td>
</tr>
<tr>
<td>2. (1) Dell OptiPlex 755 Small Form Factor Desktop Computer w/ monitor</td>
<td>1,321.02</td>
</tr>
<tr>
<td>Vendor: Dell State Contract</td>
<td></td>
</tr>
<tr>
<td>3. (1) MS Office Professional Plus 2007 software license</td>
<td>52.92</td>
</tr>
<tr>
<td>Vendor: Software House International</td>
<td></td>
</tr>
<tr>
<td>4. (1) HP Officejet Pro K8600dn color printer w/ ink cartridges</td>
<td>379.00</td>
</tr>
<tr>
<td>Vendor: WSCAI State Contract</td>
<td></td>
</tr>
<tr>
<td>5. (1) Catalyst Dx Clinical Chemistries Analyzer</td>
<td>17,995.00</td>
</tr>
<tr>
<td>Vendor: IDEXX Laboratories</td>
<td></td>
</tr>
<tr>
<td>6. (2) Cardell MAX-12 HD Monitors w/ 12.1” color screen/printer;</td>
<td>14,130.00</td>
</tr>
<tr>
<td>BP/SpO2/3-lead ECG/CO2/Resp/Temp/rolling stand @ $7,065 each</td>
<td></td>
</tr>
<tr>
<td>Vendor: Sharn Veterinary, Inc.</td>
<td></td>
</tr>
<tr>
<td>7. (1) TidalGuard Sp Handheld Capnograph/Pulse Oximeter</td>
<td>2,245.00</td>
</tr>
<tr>
<td>Vendor: Sharn Veterinary, Inc.</td>
<td></td>
</tr>
<tr>
<td>8. (2) Versaflo VF1000 Volumetric IV Fluid Pumps @ $688 each</td>
<td>1,376.00</td>
</tr>
<tr>
<td>Vendor: Sharn Veterinary, Inc.</td>
<td></td>
</tr>
<tr>
<td>9. (2) Versaflo VF300 Microinfusion Syringe Pumps @ $627 each</td>
<td>1,254.00</td>
</tr>
<tr>
<td>Vendor: Sharn Veterinary, Inc.</td>
<td></td>
</tr>
<tr>
<td>10. (3) i-Warm IV Fluid Warmers @ $349 each</td>
<td>1,047.00</td>
</tr>
<tr>
<td>Vendor: Sharn Veterinary, Inc.</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$41,061.97</td>
</tr>
</tbody>
</table>

Attach two (2) letters of support for the project from the following individuals: the requesting department’s Dean, the appropriate Vice President (for non-academic units), or the SGA President from the requesting campus (for student requests).

Letters from Dr. Austin Temple, Dean of Science and Technology and Dr. Zafer Hatahet, Department Head of Biological Sciences are attached.
Vendor list:

1. Dell Inc., State Contract

2. Software House International, State Contract

3. Hewlett Packard Co., State Contract

4. IDEXX Laboratories
   One IDEXX Dr.
   Westbrook, ME 04092
   1-800-548-6733

5. SHARN Veterinary, Inc.
   10008 N. Dale Mabry Hwy.
   Tampa, FL 33618
   1-866-447-4276
   FAX: 813-264-6218
   www.SharnVet.com
<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 GB Ultra II SD Flash Memory Card</td>
<td>1</td>
<td>$13.23</td>
</tr>
<tr>
<td>Manufacturer Part# SDSDH-002G-A11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dell Part# A1993388</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL:</strong> $13.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EF 50mm Macro Lens</td>
<td>1</td>
<td>$296.99</td>
</tr>
<tr>
<td>Manufacturer Part# 2537A003</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dell Part# A1986016</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL:</strong> $296.99</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canon EOS Digital Rebel XTi Black 10.1 MP Digital SLR Camera (Body Only/No</td>
<td>1</td>
<td>$510.82</td>
</tr>
<tr>
<td>Lens Included) - MSRP $599.99</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturer Part# 1236B002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dell Part# A0726001</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL:</strong> $510.82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canon zoom lens - 28 mm - 135 mm.</td>
<td>1</td>
<td>$440.99</td>
</tr>
<tr>
<td>Manufacturer Part# 2562A002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dell Part# A0151168</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL:</strong> $440.99</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OptiPlex 755 Small Form Factor**

**Date & Time:** October 30, 2008 4:18 PM CST

**SYSTEM COMPONENTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>OptiPlex 755 Small Form Factor</td>
<td>1</td>
<td>$1,321.02</td>
</tr>
<tr>
<td>Intel® Core™ 2 Duo Processor E8400 (3.0GHz, 6M, VT, 1333MHz FSB),</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Genuine Windows Vista® Business Downgrade, XP Professional Installed,E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catalog Number: 25 E1136</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Show Details</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OptiPlex 755 Small</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intel® Core™ 2 Duo Processor E8400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>Specification</td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Form Factor</td>
<td>(3.0GHz, 6M, VT, 1333MHz FSB)</td>
<td></td>
</tr>
<tr>
<td>Operating System(s)</td>
<td>Genuine Windows Vista® Business Downgrade, XP Professional Installed, E</td>
<td></td>
</tr>
<tr>
<td>File System</td>
<td>NTFS File System for all Operating Systems</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>4GB DDR2 Non-ECC SDRAM, 800MHz, (2 DIMM)</td>
<td></td>
</tr>
<tr>
<td>Keyboard</td>
<td>Dell USB Keyboard, No Hot Keys</td>
<td></td>
</tr>
<tr>
<td>Monitors</td>
<td>Dell 19 inch UltraSharp™ 1908FPW Widescreen, Adjustable Stand, VGA/DVI</td>
<td></td>
</tr>
<tr>
<td>Video Card</td>
<td>256MB ATI Radeon 2400 XT, Dual Monitor DVI or VGA (TV-out), low profile</td>
<td></td>
</tr>
<tr>
<td>Boot Hard Drives</td>
<td>250GB SATA 3.0Gb/s and 8MB DataBurst Cache™</td>
<td></td>
</tr>
<tr>
<td>Floppy Drive and Media Reader</td>
<td>Dell 19 in 1 Media Card Reader</td>
<td></td>
</tr>
<tr>
<td>Mouse</td>
<td>Dell USB 2-Button Optical Mouse with Scroll, Black</td>
<td></td>
</tr>
<tr>
<td>Basic Systems Management Mode</td>
<td>Intel® vPro™ Secure Advanced Hardware Enabled Systems Management</td>
<td></td>
</tr>
<tr>
<td>Removable Media Storage Devices</td>
<td>8X Slimline DVD+/-RW Roxio Creator™ CyberlinkPowerDVD™</td>
<td></td>
</tr>
<tr>
<td>Speakers</td>
<td>Dell AX510 Sound Bar for all UltraSharp Flat Panel Displays</td>
<td></td>
</tr>
<tr>
<td>Resource CD and DVD</td>
<td>No Resource CD</td>
<td></td>
</tr>
<tr>
<td>Dell Energy Smart</td>
<td>Dell Energy Smart Power Management Settings Enabled</td>
<td></td>
</tr>
<tr>
<td>Security Hardware</td>
<td>Chassis intrusion switch option</td>
<td></td>
</tr>
<tr>
<td>Hardware Support Services</td>
<td>5 Year Basic Limited Warranty and 5 Year NBD Onsite Service</td>
<td></td>
</tr>
<tr>
<td>Installation Support Services</td>
<td>No Onsite System Setup</td>
<td></td>
</tr>
<tr>
<td>Ship Packaging Options</td>
<td>Shipping Material for System, Small Form Factor</td>
<td></td>
</tr>
<tr>
<td>Mouse Pad</td>
<td>Mouse Pad</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td>Processor Branding</td>
<td>vPro Sticker</td>
<td></td>
</tr>
<tr>
<td>Labels</td>
<td>Vista Premium Downgrade Relationship Desktop</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL: $1,321.02

<table>
<thead>
<tr>
<th></th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-total</td>
<td>$2,583.05</td>
</tr>
<tr>
<td>Shipping &amp; Handling</td>
<td>$0.00</td>
</tr>
<tr>
<td>Total Price*</td>
<td>--</td>
</tr>
</tbody>
</table>
Northwestern State University
Natchitoches, LA 71497

REQUEST FOR PURCHASE ORDER

Vendor
Name: Software House International
Address: 7485 Elliot Road
City: Baton Rouge
Phone: 225-755-6947

Ship To
Name: 
Address: 
City: 
Phone: 

<table>
<thead>
<tr>
<th>QTY</th>
<th>LINE</th>
<th>DESCRIPTION</th>
<th>EACH</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Office Professional Plus 2007 All Lng MVL</td>
<td>$52.92</td>
<td>$52.92</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Part Number: 79P-01195</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Product Type: Standard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACADEMIC MASTER ENROLLMENT #: 5194538
LAICU ENROLLMENT#: 9546959

Payment Details
- Check
- Cash
- Account No.
- Credit Card

Name: 
CC #: 
Exp Date: 

Shipping Date: 

Approval
Date: 
Order No: 
Sales Rep: Laurie Conrad
Ship Via: 

Notes/Remarks:
Brenda Woodard

From: Jennifer Long
Sent: Thursday, October 30, 2008 4:50 PM
To: Brenda Woodard
Subject: RE: quote - color printer (large media)
Attachments: VetTech.pdf; 17-inch Workstation.pdf; MS Office Pro Plus 2007 License.pdf; image001.png; image002.png; image003.png; image004.png; image005.png; image006.png; image007.png; image008.png; image009.png; image010.png

Use the quote you have for the printer already...attached you will find quotes for the other equipment requested.

Thanks.

From: Brenda Woodard
Sent: Thursday, October 30, 2008 4:14 PM
To: Jennifer Long
Subject: FW: quote - color printer (large media)

....and the printer.

From: Dianne J. Hamilton
Sent: Thursday, October 30, 2008 2:21 PM
To: Belinda R. Coats; Brenda Woodard
Subject: quote - color printer (large media)

Will send other quotes separately.

Contract: LA - STATE OF LOUISIANA (WSCALL)

Change to item status may result to change in your Quote. Use this page to add saved items to your cart or to replace your current cart with this Quote and checkout.

- This quote belongs to LA - STATE OF LOUISIANA (WSCALL) contract.

<table>
<thead>
<tr>
<th>Quote ID</th>
<th>2870043</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quote Name</td>
<td>Belinda Coats (11x17)</td>
</tr>
<tr>
<td>Quote created by</td>
<td><a href="mailto:dianne@nsula.edu">dianne@nsula.edu</a></td>
</tr>
<tr>
<td>Quote created on</td>
<td>10/30/2008 7:19:15 PM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Items/description</th>
<th>Part no</th>
<th>Unit price</th>
<th>Qty</th>
<th>Ext price</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP Officejet Pro K8600dn color printer</td>
<td>Base</td>
<td>$366.00</td>
<td>1</td>
<td>$366.00</td>
</tr>
<tr>
<td>HP Officejet Pro K8600dn color printer</td>
<td>CB016A#A2L</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In the box:
- HP Officejet Pro K8600dn Printer,
- Automatic Two-sided Printing
- Accessory, HP Jeldirect Fast Ethernet embedded print server, HP 88 Officejet
- Ink Cartridges (1 each: black, cyan, magenta, yellow), CD, Documentation,
- power cord and supply
- Energy Star® Compliant
- Yes
- Print speed, black; after first page
Print speed, color; after first page

Paper trays (std/max)
1/1

Input capacity (std/max)
Up to 50 sheets / Up to 150 sheets

Media sizes
Letter, legal, executive, statement;
Hagaki, A3, A4, A5, A6, B4, B5, 3 x 5
in, 4 x 6 in, 5 x 8 in, 5 x 7 in, 11 x 17 in,
13 x 19 in, 76 x 127 to 330 x 2540 mm

Memory (std/max)
32 MB/32 MB

Connectivity, standard
Hi-Speed USB port (compatible with
2.0 specifications), HP Jetdirect Fast
Ethernet embedded Print server

Print quality, color
Up to 4800 x 1200 optimized dpi color
(on premium photo paper, 1200 x 1200
input dpi)

Print quality, black
UP to 1200 x 1200 dpi

Paper-handling accessories
250-sheet input tray, automatic two-sided printing accessory, 150-sheet
output tray

Weight
31.5 lbs.

<table>
<thead>
<tr>
<th>HP Hi-Speed USB Cable (6 ft./1.8 m)</th>
<th>Q6264A</th>
<th>$13.00</th>
<th>1</th>
<th>$13.00</th>
</tr>
</thead>
</table>

Subtotal: $379.00
Good Morning Jessica,

Attached is the information that you requested. Let me know if you have any questions or if I can be of further assistance. Thank you.

Regards,

Wendy Rogers
IDEXX Laboratories
Houston Account Manager
tel: 800-551-6998 x66856 or Direct 207-556-6856
fax: 281-890-4642
Q4 2008 – IHD ORDER FORM and SALES RECEIPT (US)

Practice Name  
Doctor/Contact  
Billing Address  
City  
State  
ZIP  
Telephone  
Fax  
SAP Account Number  
Practice e-mail  

Shipping Address (If different)  

<table>
<thead>
<tr>
<th>Item</th>
<th>List</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalytic Dx™ with IDEXX VetLab Station</td>
<td>19,995 $</td>
<td></td>
</tr>
<tr>
<td>Catalytic Dx™ Analyzer</td>
<td>17,995 $</td>
<td>19,995 $</td>
</tr>
<tr>
<td>LaserCyte® with IDEXX VetLab® Station</td>
<td>19,995 $</td>
<td></td>
</tr>
<tr>
<td>LaserCyte® Hematology Analyzer</td>
<td>17,995 $</td>
<td></td>
</tr>
<tr>
<td>IDEXX VetLab® Station</td>
<td>3,995 $</td>
<td></td>
</tr>
<tr>
<td>IDEXX SNAPshot Dx™</td>
<td>4,995 $</td>
<td></td>
</tr>
<tr>
<td>VetTest® Chemistry Analyzer</td>
<td>5,995 $</td>
<td></td>
</tr>
<tr>
<td>VetLyte® Electrolyte Analyzer</td>
<td>3,995 $</td>
<td></td>
</tr>
<tr>
<td>VetStat® Electrolyte and Blood Gas Analyzer</td>
<td>4,995 $</td>
<td></td>
</tr>
<tr>
<td>IDEXX Coag Dx™ Analyzer</td>
<td>3,995 $</td>
<td></td>
</tr>
<tr>
<td>SNAP® Reader</td>
<td>3,195 $</td>
<td></td>
</tr>
<tr>
<td>IDEXX VetAuto-read® Hematology Analyzer</td>
<td>9,995 $</td>
<td></td>
</tr>
<tr>
<td>IDEXX StatSpin® VT Centrifuge</td>
<td>1,295 $</td>
<td></td>
</tr>
<tr>
<td>IDEXX VetLab® UA Analyzer</td>
<td>1,195 $</td>
<td></td>
</tr>
</tbody>
</table>

Digital Imaging Systems  
| IDEXX -DR™ 1417 | $ | |
| IDEXX-CR™ 1417 | $ | |
| Grid Selection | $ | |
| Cassette # 1 | $ | |
| Cassette # 2 | $ | |

Accessories  
| StatSpin® VetExpress | 1,595 $ | |
| SmartLink™ Connection Kit* | $ | |

*See SmartLink section in the accompanying Terms and Conditions of Sale  

<table>
<thead>
<tr>
<th>Item</th>
<th>List</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Printer</td>
<td>$</td>
</tr>
<tr>
<td>X-Ray System</td>
<td>$</td>
</tr>
<tr>
<td>IDEXX-PACS™ Seat Licenses</td>
<td>Qty.</td>
</tr>
<tr>
<td>VetPACS OrthoPlanner</td>
<td>$</td>
</tr>
<tr>
<td>Delivery (96-0867-00)</td>
<td>$</td>
</tr>
<tr>
<td>Computer Accessories</td>
<td>Qty.</td>
</tr>
<tr>
<td>Additional Monitors</td>
<td>Qty.</td>
</tr>
<tr>
<td>Additional Training</td>
<td></td>
</tr>
<tr>
<td>Line Conditioner</td>
<td>$</td>
</tr>
</tbody>
</table>

Credits  
| Practice Developer® Points (customer's bank) | $ | |
| Other Credits (must specify type) | $ | |
| Other Refinancing (explain) | $ | |

Payment Terms  
- Cash at Install  
- LaserCyte Cost Per Test  
- Lease  
- DLL: □
- WFFL: □

% Rate:  
Term:  
- Lease Buyout  

Sales Order Total  
- Down Payment $  
- Lease Subtotal $  
- Applicable Sales Tax $  
- Lease Total $  
- Cash Subtotal $ 17,995  
- Applicable Sales Tax $ Plus Tax  
- Cash Total $ 17,995 Plus

Install Date:  

Discounted Extended Maintenance Agreement (EMA)  
All IDEXX instruments come with a one-year warranty; the IDEXX VetLab suite of analyzers come with an additional four-year EMA, and the IDEXX imaging systems come with an additional five-year EMA. These agreements will be billed quarterly after the initial one-year warranty. These EMAs will be added at a one-time discount at point of sale, and at full coverage level. Should you wish to opt out of this discounted coverage or service level, please check the appropriate box:  

- IDEXX VetLab Suite  
- I do not wish to receive VetLyte Service at the Gold Level; please allow me to purchase the Silver Level of service  
- I do not wish to receive VetLab Service coverage at this time and understand I will not be offered this discount in the future  
- I would like to receive the LaserCyte Blue EMA which covers the cost of a LaserCyte Cooler, if it is determined appropriate.

IDEXX Digital Imaging Systems  
- I do not wish to receive Digital Imaging Service coverage at this time and understand I will not be offered this discount in the future.

Notes:  

By signing, you are granting authorization for disclosure of credit information. Applicant represents that the information provided is complete and accurate. Order and information subject to verification and approval at IDEXX's home office. IDEXX and any lessors reserve the right to check with credit reporting agencies, credit references and other sources in investigating the information given. If you are leasing, the lessor may require additional information.

By signing below, you acknowledge receipt of the Terms and Conditions of Sale ("T&C") and Extended Maintenance Agreement ("EMA") that accompany this document, and you agree to the terms stated above and in the T&C and EMA.

Type of Business (check one)  
- Corporation/PA  
- Partnership  
- LLC  
- Proprietorship  
- Years in Business  

Federal ID/GST Number  
SSN/SIN  
DVM License (State/Prov)  
LA  

Principal's Name  
Principal's Signature  
Date  
October 26, 2008  

Doctor's Name  
Title  

IDEXX Contact  

Fax to: 1-800-603-7630

Frm-MRKT-17_F
Introducing the Cardell® MAX-12 HD
Multiparameter Monitor
with PC Connectivity and Networking

Packed with extras plus the usual Cardell “world class” technologies

The Cardell MAX-12 HD contains the world leading Cardell veterinary blood pressure technology, Nellcor’s all-digital Oximax® pulse oximetry, and Ordinate’s Microstream® CO₂ technology. These are complemented by a diagnostic quality ECG, respiration via CO₂ and temperature.

The MAX-12 HD is flexible in that you can choose the monitor with or without invasive blood pressure and multi-gas monitoring. Most parameters have custom algorithms developed especially for veterinarians.

The 12.1” color display is high definition and can be viewed from an extremely wide angle. And up to 8 waveforms can be viewed at one time, including 4 ECG waveforms.

The monitor stores 120-hours of graphic and tabular trend information including a 12-minute ECG waveform you can review. An esophageal ECG is also available (free during introduction).

A port is available for downloading graphical trends and numerical data to your PC, or for creating a central monitoring system. And there's a video output connector for displaying the data on a larger monitor.

The menu is easy user-friendly with monitor and patient settings easily changed.

SHARN
VETERINARY, INC.
THE MONITORING COMPANY

1-866-Hi Sharn (447-4276)
Cardell® MAX-12HD Veterinary Monitor

Download Data to PC and Create Network
With optional software, the MAX-12HD allows you to easily download graphical and numerical data to your PC with a serial or ethernet cable, and you can create a central monitoring network via direct connection. There's also a video output connection for displaying the data on a larger monitor.

Clean, Crisp 12.1” High Definition Screen
The MAX-12HD color display has a super wide viewing angle of 120 degrees so you can see it from almost anywhere. The color coded numbers help you spot the parameter you're looking for. Up to eight waveforms can be displayed at one time on the screen with up to four ECG waveforms.

Easy to Use Menu Setup
Just rotate the Menu knob and the function will appear at the bottom of the screen. An arrow will point to each function as the knob is turned. You select that function by pressing the knob. It's as easy as that! Also, any settings you make will remain unchanged even after you turn the monitor off. And there's a Big Font mode for long distance visibility.

IBP and Anesthetic Agent Monitoring Options
You can order the MAX-12 with an invasive BP option and/or a multigas monitoring option. Included accessories are the pressure transducer and IBP cable and/or a multiparameter probe.

Built-In High Resolution Printer
The thermal strip recorder will print the history data for all parameters in increments of four minutes, and print these waveforms. One channel can be used for the ECG waveform and another can be used for a waveform of the SpO₂, CO₂, Respiration, or invasive BP. Also, when an out-of-limit alarm occurs, the monitor can automatically activate the printer to print the waveform.

Enhanced Trends Easily Accessed
Just press Trend Display to see up to 240 hours of monitoring history for quick patient assessment. You can set the trend display to read in hourly segments - 2, 4, 8, 24 -. Time stamps on the screen help you identify the areas for review. A 12 minute full-disclosure ECG waveform recall helps you scroll through past waveforms to find the times you want to check. You can even focus on a single QRS complex and use on-screen calipers to measure and analyze it.

Veterinary Specific Alarm Defaults
Designed for use specifically in veterinary medicine, the Cardell MAX-12 comes with four default alarm settings configured for dogs, cats, horses and other. Alarm limits can be changed at any time and the monitor will remember these changes the next time the monitor is turned on.

BP Cuffs
Now! An economical big screen multiparameter monitor with all the Cardell® “world class” technologies.

Reliable Blood Pressure
Readings in Kittens to Horses

The Cardell® BP technology has earned a reputation for providing reliable readings in kittens to horses because of the special algorithms developed for animals. Other BP monitors just don’t compare.

Besides helping you detect and manage hypotension during surgery, and assess anesthetic depth, you can use it to find, assess and treat primary or secondary hypoperfusion. And then it can assess results of drug and/or diet therapy for hypotension.

Other aspects of the blood pressure component:
- Provides systolic, diastolic, mean arterial pressure in about 20 seconds...hands free.
- STAT mode provides continuous readings for five minutes with 10 second pause between.
- AUTO mode lets you set the monitor to automatically take a pressure every minute, two minutes, three minutes, etc.
- Pulse rate range from 20 to 300 beats/min.
- Stores 600 readings and the last 24 hours of trends.
- 15 cuff in 7 different sizes included to help you get the more accurate BP.

SpO₂ from Nellcor, the World Leader
And Inventor of Pulse Oximetry

Nellcor’s all-digital OxMax® technology provides the most accurate SpO₂ readings available. This special new technology gives you SpO₂ values even in low perfusion and during patient motion, and when you need it most - when your patient is in trouble.

A ligation sensor is provided along with two sizes of clips. A reflectance sensor is also available for use on the tail during dentals or head and neck surgery.

Diagnostic Quality ECG

The monitor comes with a 2-lead system, but a 5 lead set can be chosen. Other features include:
- Electrical interference protection
- 4-channel ECG waveform and enlarged waveform display option
- 12-minute ECG waveform storage recall to review any abnormal ECG
- Displays up to 4 different leads
- Esophageal ECG (free during introduction)
- 3 sensitivity levels

Microstream® CO₂ Technology
Offers Accuracy in Small Patients

The Oximed Microstream technology overcomes the limitation found in other sidestream CO₂ monitors. It has a lower sample flow rate of 50 ml/min to eliminate problems associated with monitoring CO₂ in animals with small lung volumes...probably half your patients! The 50 ml/min sample flow rate, along with the filter, also reduces the potential moisture problems in the sample line.

Since the sensor is within the monitor, it is protected from damage. Three Microstream FilterLine sets are included: two regular sizes, and one for very small animals and entrees with dead space as low as .35 ml. Therefore, ECO₂ can be measured accurately in all patient sizes.

Temperature & Respiration

Core body temperature measurements are available through a YSI 401 Series esophageal/rectal probe. A second temperature connection is also available. Alarms may be set for each temperature channel. Respiration is derived from the CO₂ line. Alarms can be set.
Mounting Solutions Available
The Cardell® MAX-12HD Monitor can be mounted with the following accessories available from SHARN Veterinary.

Optional Wall Mount or Stand with Accessories

Technical Specifications

- Non-invasive Blood Pressure
  - Measurement Technique: Oscilometric
  - Parameters: Systolic, diastolic, mean arterial pressure
  - Modular Monitor: Auto Cycle, SPNT (5 arms, optional)
- Defibrillation Type
  - Small 12, 18, 20 watts typical at 100 BPM
  - Large 12, 20 watts typical at 5 BPM
- Maximum Airflow: 150 mmHg
- Heart Rate: 110 mmHg per minute
  - Initial Inflation: 110 mmHg per minute
  - Subsequent inflations to approx. 30 mmHg greater than previous spurious pressure.
- Blood Pressure Range: 0-305 mmHg
- Pulse Wave Range: 20-200 beats per minute
- Accuracy: in humans is shown to be ±5 mmHg
- SpO2 Accuracy: ±2.5% for Nellcor and MasMed
- SpO2 Accuracy: ±2% for Nellcor and MasMed
- Respiration
  - Signal: 1.5 to 120 BPM (optional)
  - Response: Display: 0.5 to 35 Hz
  - Diastolic: 0.5 to 100 Hz
  - X1000 Output: Display: 0.5 to 95 Hz
  - Diastolic: 0.5 Hz to 100 Hz
- Defibrillator Parameters
  - Electrolytic Insulation: 1000V
  - Insulation Capacity: 1000V
  - Insulation Resistance: 1000V
  - ECG Display 4 channels
  - Sweep Speed: 12.5/25/50 mm/s
- Temperature: 25°C to 35°C
- Thoracic Type: Y2 Filtered
- Resolution: ±1°C from 25°C to 35°C
- Battery
  - Type: Lead Acid
  - Operating Time: up to 12 hours
- Power Requirements
  - Voltage Range: 100-230 VAC, 50/60 Hz
- Communications
  - Analog Outputs: 0-5V, 4-20mA
  - Serial Port: RS422, USB
  - Modbus (proprietary)
- Mechanical
  - Size: 16.5" x 11.5" x 8.25"
  - Weight: 16 lbs.
- Safety
  - UL listed as meets the specifications for the AAMI cardiac monitor standard, IEC 60601-1, CECMHA, N44.31 and US. FDA certified

Complies with international standards:
- ISO 9001 and EN46001 Certifications.

Distributed by:

Marketed by:

SHARN VETERINARY, INC.
THE MONITORING COMPANY

E2550 N. Hall-Miller Hwy., Tampa, Florida 33618
(813) 962-6664 or Toll Free, 1-800-263-6064 from 8AM-6PM
www.SharnVet.com
Capnography: Improving anesthesia safety...and then some.

TidalGuard™ Sp
Hand-Held, Mainstream Capnograph and Digital Pulse Oximeter

The TidalGuard Sp offers accurate, reliable CO2 monitoring in a convenient, portable package. It’s designed to provide immediate clinical feedback of actual expired and inspired CO2. The TidalGuard Sp helps to provide critical information during anesthesia, e.g., depth of anesthesia, cardiac output and perfusion, reliable respiration, etc.

- Unbreakable, self-calibrating, solid state sensor.
- Diagnostic CO2 waveform.
- Adjustable alarm limits for all four parameters.
- Adjustable alarm volume: 2 min. silence or OFF.
- 24-hour trending memory.
- 30 minute on-screen graphic trend available in trend or tabular mode.
- Visual and audible “No Respiration” alert provides for a higher level of patient safety.
- Display is visible in any lighting condition—from total darkness to bright lighting.
- Prints via RS232 port to serial SPU 414 printer.
- Weighs just 28 ounces.
- 4.5 hour rechargeable battery or optional external AC power supply.
- Has ISO 9001, CE, and UL approvals.
- 3-year warranty on monitor.

• EtCO2 • SpO2
• Respiration • Pulse Rate

SHARN VETERINARY, INC.
TidalGuard™ Sp Monitor
Specifications
Exclusively for Veterinarians

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>Nickel-metal-hydride, 6.5 Ah left</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32 - 104°F (0 - 40°C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0 - 90% relative (non-condensing)</td>
</tr>
<tr>
<td><strong>Capnograph</strong></td>
<td></td>
</tr>
<tr>
<td>Principle of Operation</td>
<td>Solid state non-dispersive infrared (NDIR) absorption, mass spectrometer.</td>
</tr>
<tr>
<td>Initialization Time</td>
<td>Capnogram within 15 seconds, full speciﬁcation within 60 seconds</td>
</tr>
<tr>
<td>Calibration</td>
<td>No calibration required</td>
</tr>
<tr>
<td><strong>CO2 Sensor</strong></td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td>1.10&quot; H x 1.67&quot; W x 0.87&quot; D (3.30 x 4.24 x 2.16 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>6 oz (18 gm) - cable included</td>
</tr>
<tr>
<td>Shock Resistance</td>
<td>Withstands repeated 6 ft drops</td>
</tr>
<tr>
<td><strong>CO2 (Carbon Dioxide)</strong></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>0 - 150 mm Hg, 0 - 19.7%, 0 - 25 kPa</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2 mm Hg (0 - 60 mm Hg), ±5% of reading (0 - 75 mm Hg)</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 mm Hg</td>
</tr>
<tr>
<td>Response Time</td>
<td>60 ms</td>
</tr>
<tr>
<td>Usability</td>
<td>mm Hg, kPa or %</td>
</tr>
<tr>
<td>Compensations</td>
<td>N2O &amp; CO2 selectable, 1% (automatic)</td>
</tr>
<tr>
<td>Capnogram</td>
<td>Selectable sweep speed</td>
</tr>
<tr>
<td><strong>Respiratory Rate</strong></td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>±1 bpm</td>
</tr>
<tr>
<td>Range</td>
<td>0 - 150 bpm</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 bpm</td>
</tr>
<tr>
<td><strong>Pulse Oximeter</strong></td>
<td></td>
</tr>
<tr>
<td>Principle of Operation</td>
<td>Red/Infrared absorption (Oxygen Saturation)</td>
</tr>
<tr>
<td><strong>SpO2</strong></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>0 - 100%</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2% SpO2 (for 70 - 100% SpO2) (1 SD)</td>
</tr>
<tr>
<td>Resolution</td>
<td>1%</td>
</tr>
<tr>
<td>Audible</td>
<td>Pitch of pulse tone varies with SpO2 value</td>
</tr>
<tr>
<td><strong>Pulse Rate</strong></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>30 - 250 bpm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±1% of full scale</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 bpm</td>
</tr>
<tr>
<td>Averaging</td>
<td>6 seconds</td>
</tr>
<tr>
<td><strong>Sensors</strong></td>
<td>Reusable V-Sensor™ can be sterilized and used with all patient populations</td>
</tr>
<tr>
<td><strong>Stethoscope</strong></td>
<td>Palatine sound transducer</td>
</tr>
</tbody>
</table>

Distributed by:

Marketed by:

SHARN VETERINARY, INC.
THE MONITORING COMPANY

12950 N. Dale Mabry Hwy., Tampa, Florida 33618
813-962-6664 or Toll Free 1-866-Hi-Sharn (447-4468)
www.SharnVeterinary.com
Introducing...

Versaflo™ 1000 Volumetric Infusion Pump

**Dual Infusion Modes**
Set at ml/hr or drops/min

**View Setting at a Glance**
Front screen shows volume delivered, volume limit, volume rate, time and date

**Broad Infusion Capability**
Pumps general fluids, blood, nutritionals

**Wide I.V. Set Compatibility**
Uses Baxter, Abbott, Hospira and others

**Micro to Macro Infusion**
Delivers precise infusions at rates from 0.1 to 1200 ml/hr

**Bolus Capability**
Bolus rate from 0.1 to 1200 ml/hr; volume adjustable from 0.1 to 25 ml

**Quality Certifications**
CE, ISO 9001, ISO 13485 approvals

**Alarms/Message Light**
8 alarms via bright handle light and sound

**Memory Settings**
Store up to 10 settings

**Warranty - 2 Years**
Affordable and Reliable Versaflo™ Syringe Pumps

**Versaflo 300**
Micro-Infusion Syringe Pump
- Useful for antibiotics given over long period
- For 20ml, 50/60ml & 100ml disp. syringes
- Infusion Options:
  - 0.1 - 150 ml/hr with 20 ml syringes
  - 0.1 - 300 ml/hr with 50/60 & 100 ml syringes
- Four audible & visual alarms
- Battery, built-in recharger & AC power
- I.V. pole clamp included
- Optional 12V adapter
- Weighs 5.5 lbs.

**Versaflo 200**
High Volume Syringe Pump
- Useful for high rate drug infusions and nutritionals
- Flow rate of 60 - 1500 ml/hr
- Uses 20, 50/60 & 100ml disposable syringes
- Automated calculation of delivery rate based on time pre-selection (4, 8, 12, 16, 20 minutes)
- Four audible and visual alarms
- AC power with rechargeable battery
- Weighs 4 lbs.
- Use to supplement Versaflo 300

**Versaflo 100**
Syringe Pump for Small Dosage
- Useful for chronic cancer patients, CRIs, pain control and insulin
- Uses 2 - 12ml disp. syringes
- Delivers 1 - 99 mm/hr
  (equates to 0.2 - 20 ml/hr)
- "Complete/Occlusion" & "Low Belt" alarms
- Weighs only 1/2 lb.; uses 3 AA batteries
- Small, light and completely portable
- Rent to clients for long term therapy

SHARN VETERINARY, INC.
TELL-MONITORING COMPANY
**Versaflo™ Syringe Pump Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Model 300</th>
<th>Model 200</th>
<th>Model 100</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td>AC &amp; DC with rechargeable battery</td>
<td>AC with rechargeable battery</td>
<td>3 AA Batteries</td>
</tr>
<tr>
<td><strong>Flow Rate</strong></td>
<td>0.1–300 ml/hr</td>
<td>60–1500 ml/hr*</td>
<td>1 ml – 99 ml/hr</td>
</tr>
<tr>
<td><strong>Syringes</strong></td>
<td>20, 50/60, 100ml</td>
<td>20, 50/60, 100ml</td>
<td>2 – 12ml</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±5%</td>
<td>±20 seconds</td>
<td>Less than ±2%</td>
</tr>
<tr>
<td><strong>Audio/Visual Alarms</strong></td>
<td>NEAR EMPTY COMPLETE OCCLUSION LOW BATTERY</td>
<td>NEAR END COMPLETE OCCLUSION LOW BATTERY</td>
<td>COMPLETE/OCCLUSION LOW BATTERY</td>
</tr>
<tr>
<td><strong>Battery Length</strong></td>
<td>4 hrs. at 100 ml/hr</td>
<td></td>
<td>30 days or more than 30 syringes</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>5.5 lbs / 2.5 kg</td>
<td>3.66 lbs / 1.6 kg</td>
<td>55 lbs / 3.25 kg</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>5.6&quot;Dx13.2&quot;Wx4.7&quot;H</td>
<td>4.9&quot;Dx14.4&quot;Wx4.7&quot;H</td>
<td>1.2&quot;Dx6.5&quot;Wx2.4&quot;H</td>
</tr>
<tr>
<td><strong>Accessories Included</strong></td>
<td>IV, Pole Clamp, Power Cord</td>
<td></td>
<td>Bolus Cable, Syringe, Cover Protector, Leather Case, Batteries</td>
</tr>
</tbody>
</table>

*Automatically calculates delivery rate based on time pre-selection.*

Optional Cage Mount for Versaflo 300 & 200

Distributed by:

**SHARN VETERINARY, INC.**

1925 W. DALE MARTY HWY, TAMPA, FL 33612

866-447-4276

www.sharnvet.com
New! Economical Fluid Warmer with Temperature Display for Standard I.V. Sets

i-Warm™ Fluid Warmer

Features
- Portable and lightweight
- Convenient hanging belt to hang on I.V. pole
- Current temperature displayed in Fahrenheit or Celsius
- Temperature overheating protection
- Indicators for warming (orange), power (green), and overheating (red)

Benefits
- Reduces prep time to warm fluid
- Can monitor temperature second to second
- Reduces patients' discomfort due to cold fluid
- Compatible with standard I.V. sets
- Quickly brings the temperature of the fluid up to the patient's

SHARN VETERINARY, INC.
The Monitoring Company

www.sharnvet.com
i-Warm™ Fluid Warmer

FLOW RATE VS. FLUID TEMPERATURE

Room Temperature: 60°F (20°C)

Specifications:
- IV Tubing Size: 3.0 - 5.0mm
- Flow Rate Range: 0.1 - 256 mL/hr
- Power Requirement: 120VAC 60 Hz
- Weight without stand: 1.4 lbs
- I-Warm Dimensions: 7 1/2" x 5 1/2" x 2 1/4"
- Suggested Operating Temp.: 68-77°F
- Heating Method: Dry Heat Exchange
- Backup Overheating Protection: Power interrupted at 115°F
- Equipment Classification: IEC 1

Distributed by:

SHARN VETERINARY, INC.
THE MONITORING COMPANY
12950 N. Dale Mabry Hwy, Tampa, Florida 33618
813-962-6664 or Toll Free 1-866-46-Sharn (467-2462)
www.SharnVet.com
<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>LIST PRICE</th>
<th>SCHOOL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carriell™ MAX-12 HD</td>
<td>CARRIELL Multiparameter Monitor with 12.1&quot; Color Screen and Integrated Printer, BP / SpO2 / 3-Lead ECG / CO2 / Resp / Temp.</td>
<td>$8,495</td>
<td>$6,370</td>
</tr>
<tr>
<td>Carriell™ MAX-12 HR</td>
<td>Same as MAX-12HD w/ invasive BP.</td>
<td>$9,495</td>
<td>$7,095</td>
</tr>
<tr>
<td>Carriell™ MAX-12 HRm</td>
<td>Same as MAX-12HD w/ Multigas Monitoring.</td>
<td>$10,495</td>
<td>$7,870</td>
</tr>
<tr>
<td>Carriell™ MAX-12 HRm</td>
<td>Same as MAX-12HD w/ invasive BP and Anesthetic Gas Monitoring.</td>
<td>$11,495</td>
<td>$8,495</td>
</tr>
<tr>
<td>Carriell™ MAX-1 (Not shown)</td>
<td>CARRIELL Veterinary Multiparameter Monitor with Integrated Printer, BP / SpO2 / 3-Lead ECG / CO2 / Resp / Temp.</td>
<td>$9,995</td>
<td>$7,665</td>
</tr>
<tr>
<td>Carriell™ 9200 HD</td>
<td>CARRIELL BP/SpO2/ECG/Resp/Temp Monitor with 7&quot; Color Screen and Integrated Printer (ECG Probe Optional)</td>
<td>$1,995</td>
<td>$1,595</td>
</tr>
<tr>
<td>C-Stak®</td>
<td>C-Mort Starting CO2 Probe for use w/9200 HD</td>
<td>$2,000</td>
<td>$1,550</td>
</tr>
<tr>
<td>Carriell™ 9401</td>
<td>CARRIELL Veterinary Blood Pressure Monitor</td>
<td>$2,195</td>
<td>$1,765</td>
</tr>
<tr>
<td>Carriell™ 9402</td>
<td>CARRIELL Veterinary BP &amp; SpO2 Monitor</td>
<td>$2,995</td>
<td>$2,425</td>
</tr>
<tr>
<td>Carriell™ 9403</td>
<td>CARRIELL Veterinary BP / SpO2 / ECG, Resp/Temp Monitor</td>
<td>$3,995</td>
<td>$3,295</td>
</tr>
<tr>
<td>Carriell™ 9404</td>
<td>CARRIELL Veterinary BP / ECG / Resp/Temp Monitor</td>
<td>$2,995</td>
<td>$2,425</td>
</tr>
<tr>
<td>Carriell™ 9405</td>
<td>CARRIELL Veterinary BP / CO2 / SpO2 / ECG, Resp/Temp Monitor</td>
<td>$3,995</td>
<td>$3,295</td>
</tr>
<tr>
<td>Carriell™ 9404</td>
<td>CARRIELL Veterinary BP / ECG / Resp/Temp Monitor</td>
<td>$3,995</td>
<td>$3,295</td>
</tr>
<tr>
<td>CareDX™ 300</td>
<td>Portable Diagnostic 3-channel veterinary ecg</td>
<td>$1,399</td>
<td>$995</td>
</tr>
<tr>
<td>CareDX™ 100</td>
<td>Portable Diagnostic 1-channel veterinary ecg</td>
<td>$999</td>
<td>$675</td>
</tr>
<tr>
<td>TidalGard® Sp</td>
<td>Handheld Capnograph pulse oximeter</td>
<td>$2,995</td>
<td>$2,425</td>
</tr>
<tr>
<td>H-65-Vact</td>
<td>Heliox Handheld digital pulse oximeter</td>
<td>$1,225</td>
<td>$900</td>
</tr>
<tr>
<td>H-200W</td>
<td>Heliox Handheld pulse oximeter with alarms and printer</td>
<td>$1,275</td>
<td>$850</td>
</tr>
<tr>
<td>M56-Vact</td>
<td>Heliox Continuous pulse oximeter w/ Oximant Technology</td>
<td>$1,495</td>
<td>$1,150</td>
</tr>
<tr>
<td>Phazell Max X</td>
<td>Phazell Max, Multiags Analyzer with CO2 + 5 Agents</td>
<td>$8,300</td>
<td>$6,440</td>
</tr>
<tr>
<td>VP3000</td>
<td>Versaflow™ Volumetric IV Fluid pump</td>
<td>$198</td>
<td>$148</td>
</tr>
<tr>
<td>VP320</td>
<td>Versaflow™ Micro infusion syringe pump</td>
<td>$895</td>
<td>$827</td>
</tr>
<tr>
<td>VP200</td>
<td>Versaflow™ High volume syringe pump</td>
<td>$525</td>
<td>$430</td>
</tr>
<tr>
<td>VP100</td>
<td>Versaflow™ Low dosage syringe pump</td>
<td>$595</td>
<td>$523</td>
</tr>
<tr>
<td>IV-Warmer</td>
<td>IV Fluid warmer</td>
<td>$349</td>
<td>$284</td>
</tr>
</tbody>
</table>

CALL TODAY 866-447-4278 OR FAX YOUR PO. TO 813-264-6218
October 30, 2008

Ms. Jennifer Long Martin
Student Technology Office
Watson Library

Ms. Long,

I am writing in support of Dr. Brenda Woodard’s Student Tech Fee grant proposal to update the surgery/anesthesia facility in the Veterinary Technology Program of the Department of Biological Sciences. In order to be competitive in the job market, our graduates need to be familiar with the technology commonly used in veterinary clinics. The requested equipment fall in this category and are essential for proper training of our students. Dr. Woodard’s program has a near perfect record of job-placing its graduates and funding of this grant would help maintain this record. Finally, all of the equipment currently available in the Vet Tech program are used extensively and kept in excellent condition, a testament to Dr. Woodard and her students.

Thank you.

Sincerely,

Zafer Hatahet, Ph.D.
Professor and Chair
October 30, 2008

Student Technology Fee Grant Proposal Committee

Dear Committee Members:

I am pleased to write this letter of support in behalf of a grant proposal written by Dr. Brenda Woodard. Dr. Woodard is proposing to purchase equipment to modernize the surgery/anesthesia laboratory which is used in the Veterinary Technology degree program. It is very important that our students receive training using current technology and equipment. The purchase of this equipment will insure that our students are receiving state of the art training. This laboratory is offered every semester and the individual enrollment each semester varies from 18 to 28 students.

Thank you for serving on this very important committee and for your consideration of this proposal.

Very truly yours,

Austin L. Temple Jr., Ph.D.
Dean, College of Science and Technology