

Item No.	Qty	Description
1	1	<p>INNOVA IGS 630 BIPLANE SYSTEM</p> <p>S18831BS INNOVA IGS 630 with Omega V Table</p> <p>The Innova IGS 630 is a biplane cardiovascular and interventional X-ray system</p> <p>consisting of a floor mounted three-axis C-arm and a ceiling suspended C-Arm with the GE exclusive 31cm x 31cm Innova solid-state digital detectors. It is designed to consistently provide excellent imaging performance for a full range of Interventional X-ray procedures, such as neuro, cardiac, general vascular diagnosis and intervention, electrophysiology, and a range of non- vascular interventional procedures.</p> <p>Innova IGS 630 Positioner</p> <p>The Innova IGS 630 combines GE's exclusive Innova floor mounted LC Positioner with a ceiling mounted lateral plane with an ergonomically designed tableside user interface to provide easy access and control of critical features during an exam. The patented 3-axis isocentric positioner design features a floor mounted L-Arm and offset C-Arm for maximum positioning flexibility and excellent patient access in all views. The rigid floor-mounted construction provides minimum vibration and deflection during spin acquisitions. The three motor driven axes help make even the most complex angulations easy to achieve.</p> <p>GE Revolution digital flat panel detector</p> <p>The digital detector uses an amorphous silicon photodiode array on a continuous-substrate, single-piece panel with no inherent seams. The digital detector (31 cm x 31 cm) is comprised of a 1536 x 1536 array of imaging elements or pixels on a 200-micron pitch. Scintillator thickness and electronic noise are optimized to produce extremely high detective quantum efficiencies, both at high exposures and at fluoroscopic doses.</p> <p>X-RAY Tube</p> <p>The Innova IGS 630 uses a 100 kW high-frequency Jedi three-phase power unit that provides grid pulsed fluoroscopy capability. Automatic X-ray technique calculation provides a</p>

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		<p>tube-rating chart that calculates maximum exposure time based on the selected protocol, kV, mA, focal spot and available heat units. Fluoroscopy and radiography exposure times and mA are automatically controlled by the dynamic exposure optimization system. The range of mA is limited by X-ray tube ratings and regulatory limits. A fluoroscopic timer captures the fluoroscopic procedure time (reset time is every five minutes).</p> <p>The Omega V table</p> <p>The Omega V table is the long version, and motorized table. This memory foam imaging table pad is radiolucent and offers the most comfortable surface possible for patients without compromising image quality. It supports a load up to 304 kg and allows imaging coverage with table panning up to 186cm with table dimension: 333cm in length and 46cm in width.</p> <p>User interface</p> <p>The SmartBox provides a simple control of the positioner and the table. A second SmartBox can be added at tableside or in the control room. # The TSSC provides simple access to key acquisition and review parameters throughout the exam. A second TSSC can be added at tableside or in the control room. # The Central Touch Screen lets the user control the Discovery IGS 630 system functions as well as integrated equipment. # Smart Nav is an innovative solution to control some Discovery IGS system functionalities from tableside and from the control room. It allows fast function access in displaying menu controls on the reference monitor upon user request. With Smart Nav, the user can keep his/her attention on the screen monitors where clinical images are also displayed. Smart Nav is controlled from the Central Touch Screen, local keypad or remote keypad, providing intuitive and context-based navigation. # Fluorostore store displays, and plays loops of the last 450 fluoro images at the push of a button for streamlined image review, helping to avoid extra images and exposure. # Dynamic acquisition package: 30 fps and 15 fps # InnovaChase is a dynamic, unsubtracted acquisition at a fixed frame rate of 5 fps with manual and remote panning of the table. It is optimized for visualization of a run off. The Innova IGS 630 system facilitates image management and workflow using standard format and communication protocols. It</p>

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		<p>also features close integration with the AW and CA1000 workstations to provide advanced image review and processing capabilities.</p> <p>Acquisition of data at 14 bits # Cardiac images stored in 8 bits, maximum 450 images per sequence. Storage capacity: 136,000 cardiac images</p> <p>Images with 12 bits data stored in 16 bits, maximum 450 images per sequence. Storage capacity: 68,000 DSA images</p> <p>DICOM image output on 100Mbit Ethernet with Autosend and background transfer for fast transmission with minimal user interaction. # Capability to do full resolution 1024 x 1024 DICOM push to retain image quality at acquisition (configurable to 512 x 512 for cardiac acquisitions and 512 x 512 x 512 or 256 x 256 x 256 for 3D imaging) # Patient Worklist capability provides a single point of entry of patient data, increasing staff productivity and eliminating clerical errors: patient information can easily be imported into the digital system from information systems that support DICOM Worklist Service Class Provider. # Multi-destination Push enables images to be sent to multiple remote DICOM destinations sequentially (one after another). Multi-destination helps to support a clinical scenario of handling post processing and archival activities in multiple destinations independently of each other (workstation, PACS). Multi-destination provides a seamless integration of the Innova IGS 630 into clinical workflow. # MPPS: Modality Performed Procedure Step allows the Innova IGS 630 to share the main exam parameters with the hospital information system.</p>
2	1	<p>Omega V Table Foot End Rail Extender</p> <p>Omega V Table Foot End Rail Extender</p>
3	1	<p>Biplane Smart Box Tableside Control</p> <p>Primary Smart Box</p> <p>New Smart Box for Simplified and Intuitive Joystick Control of Positioner and Table</p> <ul style="list-style-type: none"> Anatomical and Mechanical Positioning

Item No.	Qty	Description
		<ul style="list-style-type: none"> • Independent or Simultaneous Movement of All Three Positioner Axes • Remote SID Control • Manual or Motor Assisted 4-way Table Panning • Ergonomic Design • Hermetically Sealed
4	1	<p>Biplane Smart Handle Tableside Control</p> <p>Innova Optional Second Smart Handle</p> <p>Single-handed, Simultaneous Control of Positioner and Table Movements From the SmartHandle Operator Control</p> <ul style="list-style-type: none"> • Anatomical and Mechanical Positioning • Independent or Simultaneous Movement of All Three Positioner Axes • Remote SID Control • Manual or Motor Assisted 4-way Table Panning • Ergonomic Design • Hermetically Sealed
5	1	<p>Second Biplane TSSC</p> <p>Second Biplane TSSC Control. For Control Room only.</p>
6	1	<p>CTRL ROOM BIPLANE FOOTSWI</p> <p>CTRL ROOM BIPLANE FOOTSWI</p>
7	1	<p>Remote TSUI Control</p> <p>Remote TSUI Control</p>
8	1	<p>In-Room AW mouse interface kit</p> <p>In-Room AW mouse interface kit</p>
9	1	<p>Biplane UL Coolix 4100 Auto Transformer</p> <p>Biplane UL Coolix 4100 Auto Transformer</p>
10	1	<p>FLUORO UPS 20KVA UL</p> <p>Innova - IQ 20 KVA UPS</p>

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11	1	<p>UL POWER DISTRIBUTION BOX</p> <p>UL POWER DISTRIBUTION BOX</p>
12	1	<p>Quantitative Analysis Package</p> <p>Quantitative Analysis Package</p> <p>Stenosis Analysis Package on DL Digital System</p> <p>The Stenosis Analysis Package is an application designed for estimating vessel dimensions and relevant parameters of the arterial Stenosis morphology in X-Ray angiography. The system is capable of automatic detection of vessel edges and display of stenosis severity.</p> <p>Left Ventricular Analysis Package</p> <p>The Left Ventricular Analysis Package is an expert reporting tool designed to estimate wall motion dynamics of the left ventricle, and to perform Global Ejection Fraction Analysis in X-Ray angiography. The system is capable of providing Wall Motion and Global Ejection Fraction measurements. Wall Motion is built on the centerline method.</p> <p>GEF analysis is calculated using both Simpson's rule method and the Dodge-Sandler area-length method</p> <p>Cardiovascular Analysis Package (on DL system)</p> <p>The Cardiovascular Analysis Package includes both the Stenosis Analysis Package and the Left Ventricular Analysis Package.</p> <p>The Stenosis Analysis Package is an application designed to estimate vessel dimensions and relevant parameters of the arterial Stenosis morphology in X-Ray angiography. The system is capable of automatic detection of vessel edges and display of stenosis severity.</p> <p>The Left Ventricular Analysis Package is an expert reporting tool designed to estimate wall motion dynamics of the left ventricle, and to perform Global Ejection Fraction analysis in X-Ray angiography. The system is capable of providing Wall Motion and Global Ejection Fraction measurements (GEF). Wall Motion is built on the centerline method.</p> <p>GEF analysis is calculated using both Simpson's rule method and the Dodge-Sandler area-length method.</p>
13	1	CARTO Uniview Kit

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		<p>Innova 2100/3100IQ Plus/Pro and IGS 520/530 with Innova N/C Vision Upgrade for the CARTO 3 Uniview System</p> <p>This feature upgrades an Innova 2100IQ or 3100IQ Plus/Pro system or IGS 520/530 system (with the Advanced Innova Software and Vision Hardware) to compatability with Biosense Webster's CARTO 3 Uniview System. The CARTO 3 UniVu System combines Fluoroscopy from Innova with 3D Cardiac Imaging. This software upgrade to the Innova system includes the following:</p> <ul style="list-style-type: none"> • CARTO 3 Uniview Interface Kit • Installation <p>CARTO 3 Uniview System is available from Biosense Webster and is not included with this upgrade.</p>
14	1	<p>FE LETTER - QC MODE OPTION</p> <p>FE LETTER - QC MODE OPTION</p>
15	1	<p>Blended Roadmap</p> <p>Blended Roadmap</p> <p>Blended Roadmap is a vascular roadmapping application that superimposes a previously acquired vascular image over live fluoroscopy. Clinicians can select any DSA or bolus image as a reference roadmap image. By using it multiple times, it has the potential to minimize contrast media injections during roadmapping. Blended roadmap provides additional features to enhance roadmapping procedures:</p> <ul style="list-style-type: none"> • Adjustment of the subtraction level • Adjustment of the vessels transparency • Automatic resizing of the roadmap image to adapt to the fluoroscopic field of view • Pixel shift of the vessel image to compensate for motion <p>Blended Roadmap is available on systems with either Omega V or InnovaIQ tables. Blended Roadmap requires the Advanced Innova Software Package. On the biplane systems it can be applied to one frame at a time.</p>

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16	1	<p>INNOVABREEZE OPTION</p> <p>InnovaBreeze lets the user follow the contrast using variable panning speed control in the control room while looking at subtracted images in real time</p>
17	1	<p>Innova Subtracted 3D</p> <p>Innova Subtracted 3D</p> <p>Innova Subtracted 3D enhances the Innova 3D application by adding automated sequential mask and contrast spin acquisitions with processing protocols to produce subtracted 3D vascular images. Clinicians may use Subtracted 3D to quickly visualize vessels without the need to remove surrounding bone, tissue, and implanted devices. The output of the 3D processing provides convenient side by side and separate visualization of the mask series, the subtracted vascular anatomy and the standard 3D vascular images.</p> <p>The mask image can be fused onto the subtracted image and their transparency can be adjusted for optimal visualization of the implanted devices in relationship to the vascular anatomy. Innova Subtracted 3D requires the following: Innova 3D, AW VolumeShare5 or higher, and the Advanced Innova Software Package.</p>
18	1	<p>Innova CT HD</p> <p>Innova CT HD</p> <p>Innova CT HD is a package providing three 3D imaging protocols: Innova 3D, Innova CT HD and Innova CT HR.</p> <p>Innova 3D at 40 degree gantry rotation speed provides 3D imaging for internal body structures, contrast injections, and interventional devices. It helps physicians in diagnosis, surgical planning, interventional procedures, and treatment follow-up. The Innova 3D acquisition is selectable from the</p>

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		<p>table side and transfer of the acquired data to the AW workstation is automated including image reconstruction, processing and display.</p> <p>Innova CT HD protocol at 16, 23 and 40 degree gantry rotation speeds is intended for imaging bone, soft tissues, and other internal body structures. It helps physicians in diagnosis, surgical planning, interventional procedures and treatment follow-up. The Innova CT HD protocol utilizes 50 fps acquisition, automatic technique selection and scatter correction during reconstruction to reduce the presence of reconstruction artifacts caused by imaging with a limited number of projection angles.</p> <p>The Innova CT HR protocol is designed for high resolution using reduced focal spot sizes, 50 frames per second acquisition rates, smaller fields of view and specialized processing and display to provide small area high resolution imaging.</p> <p>Slice reconstruction for Innova 3D, CT HD and CT HR protocols produces slices which are compatible with the DICOM CT format for export to external locations. DICOM CT compatible export provides the capability for export of the Innova 3D and CT HD models to all major EP 3D mapping systems.</p> <p>The Innova 3D, CT HD, CT HR software processing programs run on the GE Advantage Workstation with VolumeShare 5 or higher level software, and provide reconstructions from rotational 200 degree spins. All reconstructed 3D models</p>

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		can have 512 x 512 x 512 resolution. A 256 x 256 x 256 mode is also available at slightly reduced reconstruction times.
19	1	<p>InnovaSense, Advanced Patient Positioning, Patient Contouring</p> <p>InnovaSense, Advanced Patient Positioning, Patient Contouring and Anti-Collision Package</p> <p>Patient contouring feature leverages advanced capacitive sensor technology in real time to sense the distance of the patient from the detector. Ability to do so is critical in moving the detector rapidly near the patient, and also positioning it optimally close to the patient to reduce skin dose.</p>
20	1	<p>GE Primary Image Display (LDM Solution)</p> <p>GE Primary Image Display (LDM Solution)</p>
21	1	<p>1X Live B&W LCD Frontal Monitor</p> <p>One Live B&W LCD Frontal Control Room Monitor</p> <ul style="list-style-type: none"> • One optional repeater live monitor • Includes cables and connections
22	1	<p>1x Reference B&W LCD Frontal Monitor</p> <p>One Reference B&W LCD Frontal Control Room Monitor</p> <ul style="list-style-type: none"> • One optional repeater reference monitor • Includes cables and connections
23	1	<p>1x Live B&W LCD Lateral Monitor</p> <p>1x Live B&W LCD Lateral Monitor</p>
24	1	<p>1x Reference B&W LCD Lateral Monitor</p> <p>1x Reference B&W LCD Lateral Monitor</p>
25	1	<p>3KVA UPS for LDM, 110 volt</p> <p>UPS for Large Display Monitor, 3KVA, 110 volt</p>
26	1	Analog to Digital Converter Kit

Item No.	Qty	Description
		Analog to Digital Converter Kit
27	1	Link Set for IVUS Volcano Link Set for IVUS Volcano
28	1	Link Set for EP Mapping Link Set for EP Mapping
29	1	Link Set for Digital and Analog Ultrasound Link Set for Digital and Analog Ultrasound
30	1	Link Set for Open 2 Link Set Open 2 Suitable for anesthesia monitors, camera, etc.
31	1	Large Display Solution Mavig Suspension on Rails Large Display Solution Mavig Suspension on Rails
32	1	AW VolumeShare 7 for Interventional Base System AW VolumeShare 7 for Interventional with 32GB of RAM. DOES NOT include Volume Viewer. AW VolumeShare 7 is a multi-modality image review, comparison and post processing workstation built with simplicity and power at its core. Powerful software is optimized to take advantage of state of the art 64 bit technology and multiple cores to ensure leading edge performance. AW VolumeShare 7 features include: Hardware: o HP Z440 Workstation o CPU: Intel Xeon E5-1660v3 (Haswell) Eight-Core @ 3.0 GHz with 20MB L3 Shared

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		<ul style="list-style-type: none"> Cache each with Dual QPI @ 8 GT/s o RAM: 32GB (8x4GB) Four-channel DDR4 ECC RSIMM @ 2133 MHz o GRAPHICS: NVIDIA Quadro NVS310 with 1 GB Video RAM o 1x 256GB SATA3 SSD for OS and Apps o 2x 512GB SATA3 SSD in RAID 0 for 1TB data storage o VGA Video Convert Kit Software: <ul style="list-style-type: none"> o GE Healthcare HELiOS 6 operating system o Demo Exams for training and exploration o Fast access to information you need through optional RIS integration & priors post-fetch o Efficient workflow through dynamic load, end review and Key Image Notes features o Productivity package to pre-process exams and allow up to 8 simultaneous sessions o Applications usage monitor to track and view usage of your system o Smart layouts with Volume Viewer General review protocol that optimizes comparison and single exam layouts o Enhanced multi-modality contouring tool with support for PET SUVs o Support for external DICOM USB media and preference management tool to exchange preferences across users o Support for optional, broad suite of multi-modality advanced applications
33	1	AW VolumeShare 7 Monitors

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		<p>AW VolumeShare 7 Monitor are two high-quality monitors offering bright and high contrast imagery suited to the display of medical images per the AW VolumeShare Indications for Use. Each provides a 19" 1280x1024 (5:4 aspect ratio) display that complies with international medical and patient safety standards and offers the following specifications:</p> <ul style="list-style-type: none"> • Maximum luminance (panel typical) : 330 nit • DICOM Part 14 calibrated luminance: 215 nit • Contrast ratio (panel typical) : 900:1 • An ambient light sensor • Brightness non-uniformity (measured as per DIN6868-157) : +/-25%
34	1	<p>Volume Viewer Interventional</p> <p>Volume Viewer Interventional</p>
35	1	<p>AW Stenosis Analysis Software Package</p> <p>Stenosis Analysis Package for AW</p> <p>The Stenosis Analysis Package is an application designed for estimating vessel dimensions and relevant parameters of the arterial Stenosis morphology in X-Ray angiography. The system is capable of automatic detection of vessel edges and display of stenosis severity.</p>
36	1	<p>Mavig Single Pivot Lower Body Protector</p> <p>Mavig Single Pivot Lower Body Protector Provides convenience, flexibility and enhanced protection for medical personnel. Helps shield technicians against scatter radiation from sources beneath the tabletop and also helps to protect the lower extremities. Flexible 0.5 mm lead equivalent curtains attached to aluminum alloy pivoting arm. The entire lower body protector can be easily and quickly removed from the table. Warranty Code H- 6 Months: Exchange of non-conforming products, which you return to us during the warranty period. Note: Installation, parts, applications training and on-site service is the buyer's responsibility. o One-piece economical model offers enhanced protection o Comes with single joint adapter o Measures 45 cm</p>

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		W W 73 cm L (18 W 29 in.) Upper portion is 17 cm H (7 in.)
37	2	<p>GE Anti-Fatigue Floor Mat (Blue 3x5 x 5/8")</p> <p>GE Anti-Fatigue Floor Mat</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> • Ingenious device for those who spend a lot of time on their feet on concrete or tile surfaces • Cradles feet in cushiony comfort, minimizing stress and fatigue • Sealed to prevent moisture absorption and facilitate cleanup - ideal for medical environments <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> • Dimensions (L x W x D): 60" x 36" x 0.5" • Weight: Approx 22 lbs. • Blue/White Marble Color <p>COMPATIBILITY</p> <ul style="list-style-type: none"> • Cath Labs, Angiography, R&F rooms • Mammography • Ultrasound
38	1	<p>TEMPLATE</p> <p>TEMPLATE</p>
39	1	<p>BASE PLATE ASSEMBLY</p> <p>BASE PLATE ASSEMBLY</p>
40	1	<p>OMEGA 5 OR ELEGANCE TABLE</p> <p>OMEGA 5 OR ELEGANCE TABLE</p>
41	1	<p>Above Grade and Through Bolts</p> <p>Anchor Kit - Above Grade and Through Bolts, 25 mm</p>
42	1	<p>In Board Rails, 228 inch/579 cm</p> <p>In Board Rails, 228 inches long, to be used with LCD Monitor</p>

Item No.	Qty	Description
		Suspensions
43	1	Long In Board Monitor Bridge 9'6- INBOARD MONITOR BRIDGE
44	1	8 Days Interventional X-ray Advanced Applications On-site System Training 8 Days Interventional X-ray Advanced Applications On-site System Training Eight full days (1 day = 8 hours) of on-site training for an Innova X-ray system. Includes one 3-day on-site visit to coincide with system go-live, one 3-day on-site follow-up visit and one 2-day on-site follow-up visit to be scheduled Monday through Friday. Training cannot be scheduled as single day events. Training expires 12 months from the date of go-live of equipment or purchase, whichever is the latest. Configuration List Price: Discounted Configuration Price Technical Service Training Technical Service Training
	1	
45	1	INNOVA BIPLANE Innova Biplane Basic Service Class/Lab The Innova Biplane class/lab is a 1 week course that introduces digital detectors to biplane cardiac and vascular labs and provides the instructional and hands-on opportunities for the student to acquire the fundamental competencies to effectively and safely service the Innova Biplane System. Prior to attending this course student must have completed Innova Systems course (R0154RY). This course must be taken within 2 years from the purchase date.
46	1	DGS Fundamentals Online Technical Training DGS Fundamentals Online Technical Training Detection and Guided Solutions (DGS) Fundamentals Online service training is part one of a two-part training program. Part

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		<p>two is an instructor hands-on class/lab (R0212RY). This self-paced training program must be completed before attending the hands-on class/lab. This online course covers: X-ray principles, Radiographic components, Radiographic basic applications, Fluoroscopic Components, Fluoroscopic basic applications. Please visit our webpage to register: http://www3.gehealthcare.com/en/education/product_education_-_technical/ or contact us at: edservices@ge.com</p>
47	1	<p>DGS Fundamentals Technical Training</p> <p>DGS Fundamentals Technical Training Detection and Guided Solutions (DGS) Fundamentals service training provides basic knowledge and skills necessary to perform service tasks on GE Rad, Fluoro, Vascular, and Mammo imaging systems. This is the second step in an integrated training program that includes instructor-led training sessions and online pre-work. This class will incorporate numerous GE XR systems enabling knowledge and service skills to be practiced and applied during lab activities. Please visit our webpage to register: http://www3.gehealthcare.com/en/education/product_education_-_technical/ or contact us at: edservices@ge.com</p>
48	5	<p>Meals And Lodging Expense</p> <p>Meals and Lodging Expense has been developed to allow the customer the convenience of prepaying for their meals and lodging expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI.</p> <p>The price of this convenience is based on a per day basis. Thus a quantity of 1 is equal to 1 day's meals and lodging expense. When purchasing the meals and lodging expense please be mindful of weekend days during the training stay and include 2 days to cover a weekend in the purchase quantity.</p> <p>Examples: A 5-day course needs a quantity of 5. Any course longer than 5 days should include 2 days to account for the weekend stay. Any course longer than 10 days will require an additional 4 days of the meals and lodging expense to cover the 2 weekends of the stay. Thus a 15-day course would have a quantity of 19 days to cover the 2 weekends of the stay. This</p>

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		<p>expense must be used within 2 years from the purchase date.</p> <p>Three meals a day Monday thru Thursday, 2 meals on Friday, pluse breaks are provided in the onsite cafeteria. The GE Healthcare Institute cafeteria closes Friday after lunch and reopens Monday morning for breakfast. Weekend meals are the responsibility of the customer.</p> <p>Only for In-resident courses to be taken at the GE Healthcare Institute.</p>
49	1	<p>Airfare Expense</p> <p>The AIRFARE EXPENSE has been developed to allow the customer the convenience to prepay their roundtrip Airfare expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI. To be used for engineers attending In-Resident Class/Lab courses for Diagnostic Imaging.</p> <p>Customer will make their Airfare arrangements thru the GE Travel Center. Specific directions will be provided to the customer upon confirmation of class. Please note that this expense must be used within 2 years of the purchase date</p> <p>Configuration List Price: Discounted Configuration Price</p> <p>Innova 3131 Trade In</p>