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#### Vivid\* S70 High End Console 4D TEE Package

The Vivid S70 High End Console 4D TEE Package includes the following items:

- Vivid S70 console with the USA language kit.
- 6VT-D 4D TEE Probe
- DICOM\*\* Network Connectivity
- TEE Interface software
- 4D software
- 4 (four) days of on-site Application training

The Vivid \* S70 combines the proven breadth and performance of the Vivid product line with a new and innovative software-based image processing platform: cSound\*. The Vivid S70 is GE cardiovascular ultrasound's High End scanner.

The cSound architecture benefits all Vivid S70 probes and applications. The Vivid S70 supports the following clinical applications: Adult cardiac (2D, and 4D transesophageal), coronary, pediatric, fetal heart, obstetrics, gynecology, abdominal, small parts, thyroid, adult and neonatal cephalic, peripheral vascular, musculoskeletal, nerves and urology.

#### System Architecture

GE's exclusive, programmable and flexible beamforming technology, cSound, provides exceptional image quality and processing power compared to conventional GE hardware-based beamforming technology. In 4D, cSound delivers volume sizes suited for full volume single beat and multi beat 4D acquisition. Using both coherent and harmonic image processing, the system provides computational power, ease of imaging, workflow flexibility and product upgradeability.

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#### Exceptional Image Quality:

Exceptional image quality on the Vivid S70 is created through the use of Ultra Definition Clarity filtering, elevation compound imaging (considering a wider slice for 2D imaging) with the 6VT probe, HD Imaging (balanced resolution, penetration and image uniformity) and virtual apex (wide field of view).

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#### Probe technology:

The XDclear\* series of probes are designed to help deliver powerful and efficient sound waves, with high bandwidth and efficiency. XDclear probe technology provides impressive deep penetration and high sensitivity while maintaining high spatial resolution. The combination of Single Crystal, Acoustic Amplifier and Cool Stack technologies is the core technology of the XDclear series of probes.

#### Ease of Use

Ease of use features make Vivid S70 an extremely productive 2D and 4D cardiovascular ultrasound system.

The combination of the Touch Screen control with conventional (tactile) buttons provides intuitive controls, helping the operator maintain focus on the patient and the ultrasound images during the exam. The touchscreen can also provide alpha-numeric keyboard entry or a dedicated A/N keyboard option can be purchased with Vivid S70.

Ease of use for the operator in 2D imaging is provided by the cSound technology delivering auto optimized excellent image quality with little manipulation along with automated tools like 2D Auto EF, AFI Productivity Package and Scan Assist Pro.

Ease of use in 4D imaging is accomplished with a number of GEHC innovations, including Single Beat 4D, 4D Views, Advanced 4D User Toolbox, Advanced 4D User Quantification Package and 4D Auto LVQ.

Ergonomic features include the "FlexFit" mechanism enabling continuous pivoting height adjustment of the control panel, allowing the user to adjust distance to the control panel while providing adequate legroom for standing or sitting positions. In addition, the articulating monitor arm (horizontal and vertical), and lightweight transducers combine to make the Vivid S70 an extremely ergonomic-friendly cardiovascular ultrasound system.

Portability: The Vivid S70's Compact size and light weight, combined with a fold down monitor enables easy transportation and promotes scanning at the patient site. The battery option provides a transportation mode that keeps the system ready to scan within a few seconds of being connected to a power outlet. The cSound platform takes GE's Raw Data to a new level. For

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image processing and reconstruction, the Vivid S70 can utilize more than 100 times the data compared to the Vivid S6. Additionally, the Vivid S70, combined with the EchoPAC workstation, uses the proven Raw data format technology that allows for advanced processing on archived images by applying many of the same scan controls and advanced quantitative tools as are available during the original exam.

The following standard configuration items are included in the Vivid S70 High End Console 4D TEE Package:

- Vivid S70 console with the USA language kit.
- 6VT-D 4D TEE Probe (see additional description below)
- DICOM\*\* Network Connectivity
- TEE Interface software
- 4D software
- 4 (four) days of on-site Application training (see additional description below)
- UD Clarity
- HD Imaging for FP
  - I (Coded Phase Inversion)
- Elevation Compound (6VT probe)
- Auto Optimization (2D)
- ASO (Automatic Spectrum Optimization)
- HiRes Zoom
- Virtual apex 2D imaging
- Smart Depth
- Compound
- Extended Field of View (LOGIQView)
- AMM/Curved AMM
- TVI/Tissue Tracking
- Advanced Vascular B-Flow and BFI
- Z Scores for pediatrics
- DICOM\*\* Media (embedded viewer requires optional purchase)
- EchoPAC\* Patient Archive
- Report Designer, Statement Engine, Normal Values, E-Sign-off

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#### Communication

- Monitor Auto Sensor
- Configurable prospective/retrospective capture
- ECG Cable, Adult
- USB connectors can be deactivated

6VT-D Probe: (included with the Vivid S70 4D TEE Package)

The 6VT-D is a wide band multi-frequency active matrix volume imaging transesophageal phased array probe with a bandwidth between 3.0 and 8 MHz, a 90-degree field of view and 20 cm depth of field. The distal probe tip with a dimension of 14 X 13 mm and a length of 45 mm allows excellent imaging for cardiac diagnosis and intervention control with a small handle diameter for comfort and ergonomics. Rubber wheels provide an easy grip, especially in slippery conditions. Three user configurable on-handle push buttons provide fast and convenient plane rotation, image store and freeze functionality.

Applications Training: (included with the Vivid S70 4D TEE Package)

The Vivid S70 4D TEE Package includes four (4 days) of On-site Applications Training. The On-site Applications Training must be completed within six (6) months after Product delivery, otherwise GE Healthcare's obligation to provide the training will expire without refund. Additional On-site Applications Training days are available for purchase. Customer workflow permitting and abiding by SDMS criteria, sonographer install CE's may be provided during install training.

The following options are available for purchase for the Vivid S70 High End Console 4D TEE Package:

Additional On-Site Application Training days

Dedicated alpha-numeric keyboard (optional purchase)

Scan Assist (2D stress and CRT protocols) (optional purchase)

Scan Assist Pro (protocol assisted exams) (optional purchase)

LVO Contrast (optional purchase)

Smart Stress (optional purchase)

AFI Productivity Package (AFI, AFI w/TEE) (optional purchase)

2D Auto EF (optional purchase)

		<p>Q-Analysis: Q Stress and QTVI (optional purchase)</p> <p>Advanced QScan (optional purchase)</p> <p>Advanced 4D (optional purchase)</p> <p>IMT (optional purchase)</p> <p>Rodent (optional purchase)</p> <p>Embedded DICOM viewer on media (optional purchase)</p> <p>DVD/CD-R drive (optional purchase)</p> <p>MPEGVue and eVue (optional purchase)</p> <p>Wireless network connection (optional purchase)</p> <p>Battery (optional purchase)</p> <p>*Trademark of General Electric Company or one of its subsidiaries.</p> <p>**DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.</p> <p>Third party trademarks are the property of their respective owners</p>
2	1	<p>Wireless Network USB Adapter</p> <p>Allows connecting the scanner to a wireless network according to IEEE 802.11g or 802.11b (2.4GHz) Standard</p>
3	1	<p>Vivid* S60, S70 Battery</p> <p>The Battery option keeps the Vivid* S60 and Vivid S70 system in an active status (powered on, but not scanning) without the AC main power supply connected for up to 20 minutes. It allows the Vivid S60, S70 to begin scanning within less than 10 seconds after reconnecting to the AC main power. (Plug and Scan).</p> <p>The Battery option also ensures that the Vivid S60, S70 system will proceed with an organized shut down if the AC main power stays disconnected beyond the 20 minute window.</p> <p>*Trademark of General Electric Company or one of its subsidiaries.</p>
4	1	<p>Storage Box</p>

		Additional Storage Box, to be mounted at the rear side. Max. load: 5 kg (11 lbs.)
5	1	DVD RW Disk  The DVD RW Disk option is factory installed and provides the ability to store images in various formats, other patient data and system data to DVD-R media.
6	1	6VT-D 4D Transesophageal (TEE) probe  6VT-D is a wide band multi-frequency active matrix volume imaging transesophageal phased array probe with a bandwidth between 3.0 and 8 MHz, a 90-degree field of view and 20 cm depth of field. The distal probe tip with a dimension of 12.7 x 14.3 mm and a length of 40 mm allows excellent imaging for cardiac diagnosis and intervention control with a small handle diameter for comfort and ergonomics. Rubber wheels provide an easy grip, especially in slippery conditions. Three user configurable on-handle push buttons for e.g. convenient plane rotation, image store and freeze functionality. 6VT-D 4D Transesophageal (TEE) probe includes one day of On-site Applications Training. The On-site Applications Training must be completed within six (6) months after Product delivery, otherwise GE Healthcare's obligation to provide the training will expire without refund. Additional On-site Applications Training days are available for purchase. Customer workflow permitting and abiding by SDMS criteria, sonographer install CE's may be provided during install training. *Trademark of General Electric Company. **Third party trademarks are the property of their respective owners.
7	1	Specialty Probes User Manual  Specialty probes user manual (hardcopy)
8	5	Adult TEE Scanhead Protection  Scanhead protection for the Adult TEE probe, 6T
9	1	Alpha Numeric Keyboard  The Alpha Numeric keyboard is a pull-out retracting hardware

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		keyboard that fits conveniently under the control panel.
10	1	<p>External ECG Cable</p> <p>ECG Cable to External ECG System</p>
11	1	<p>USB Foot Switch-3 Buttons</p> <p>This is a three pedal footswitch with configurable button functionality at application level, providing the user with flexibility during procedures like stress echo requiring additional hand support.</p>
12	1	<p>Vivid E9 Technology Course: Full Service Package</p> <p>Product-specific training</p> <p>Training conducted at GE Healthcare Institute</p> <p>All inclusive pricing package</p> <p>This 2.5-day course is designed to help customers realize the full potential of their technology investment. Instruction includes: in-depth technology review, image optimization and system customization. Highlights include technical and clinical lectures as well as focused hands-on scanning under the supervision of product experts. Course must be redeemed within one year of purchase.</p> <p>Full service package includes: Course tuition, airfare, hotel and breakfast/lunch while in training for one attendee. This course is approved for SDMS credit.</p>

## OPTIONS

13	1	<p>9L-D Linear Probe</p> <p>Broad-spectrum linear probe. Applications include: vascular, small parts, pediatric, and abdomen. Biopsy kit available.</p>
14	1	<p>M5Sc-D XDclear* Transducer</p> <p>XDclear is GE's highest performing transducer technology which is an innovative combination of advanced materials and innovative acoustic design. This phased array cardiac transducer merges matrix array with XDclear technology and provides ultra-wide bandwidth and superb image quality. Preferred applications may vary depending on the scanner running the probe, and may include cardiac, pediatrics, fetal heart, abdominal, coronary, transcranial, contrast, stress echo. Biopsy kit available.</p> <p>*Trademark of General Electric Company</p> <p>Third party trademarks are the property of their respective owners</p>
15	1	<p>P2D 2 MHz CW Pencil Probe</p> <p>2MHz non-imaging pencil probe for CW Doppler examinations of cardiac flow. Non-imaging. Requires CW option.</p>
16	1	<p>Automated Function Imaging (AFI)</p> <ul style="list-style-type: none"><li>- Parametric Imaging tool which assesses and quantifies left ventricle longitudinal wall contraction (both segmental and global) using speckle-tracking technology</li><li>- Allows the reading of cardiovascular ultrasound to shift from subjective expert evaluation to quick quantitative information</li></ul>



- Presents the complete Left Ventricle with all segments at a glance by combining three longitudinal views into one comprehensive bulls-eye view
  - Integrated into M&A package with worksheet summary
  - Applicable to TTE and TEE loops
- Automated Function Imaging (AFI) has been awarded Healthimagination validation on Cost, Access and Quality by Oxford Analytica and its external independent experts.

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#### Mitral Valve Assessment and Quantification (TomTec\*)

TomTec\* software plug-in for Mitral Valve Quantification using the volume ultrasound data of the Vivid scanner. The semi-automatic surface detecting algorithm helps clinical users get fast, reproducible and

accurate 4D visualization and quantification of the Mitral Valve, acquired with TTE or TEE probes.

\*TomTec is a trademark of TomTec Imaging systems

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#### Color Laser Printer 100-120V

Color Laser printer (HP Laserjet Pro 400 - M451dn) for printing of reports, 110V version