Discovery XR656 HD
Digital Radiographic System

Operator Manual

5496960-1EN
Rev. 15
GE does business as GE Healthcare

BOOK 1 of 3

Discovery XR656 HD Upgrade

X-RAY Caution

Though this equipment is built to the highest standards of electrical and mechanical safety, the useful x-Ray beam becomes a source of danger in the hands of the unauthorized or unqualified operator. Excessive exposure to x-radiation causes damage to human tissue.

Therefore, adequate precautions must be taken to prevent unauthorized or unqualified persons from operating this equipment or exposing themselves or others to its radiation.

Before operation, persons qualified and authorized to operate this equipment should be familiar with the recommendation of the International Commission on Radiological Protection, contained in the latest Annals of the ICRP, and with applicable national standards and should have been trained in use of the equipment.

Revision History

Table-1 Revision History

1	24-May 2017	Internal release
2	29-Jun-2018	Design change and new feature: Ionizing radiation symbol added; WS/table labels added; Korea certification information in Chapter2 Detector charging bin update; Detector holder operation and safety notice in Chapter7 Weight-bearing removed; Table grid draw remove, and grids update; Flexi-DT Stretcher table remove; Table and WS housing operation update in Chapter8 Image recovery added in Chapter10 Image Interactive Zoom (Free Zoom) added; Manual Shutter Auto Reprocessing added; Perform Quick Enhance added; Smart Process added; Quick tool bar section added in Chapter11. Health page added; Analytics Applications added; X-ray Interlock added; Gird Line Reduction: Image Paste added; iSwitchVE_RRR added; iSwitchViewDirection added in Chapter15. AEC Mode, Generator Parameter, Typical DQE, Dose/DAP Specification update in Appendix-Specification Add Appendix- IEC 60601-1-2:2014 Change to one monitor(24'') and UI update.
3	29-Sep-2018	Update Table 2-16 Identification Plate in Chapter2 Add one note for Emergency mode (login) in Chapter4 Free Cassette Interlock description update in Chapter4 Add Detector Compatible Check section in Chapter7 Add Auto Collimator Light On in Chapter8 Add the DAP Display Unit description in Chapter10 Table 10-1 and Chapter11 Table 11-4 Delete Image Recovery section in Chapter10 Add Export for Print, RDSR, Manual FOV Enable feature description in Chapter15 Update the some UI screenshots for design change Update detector weight and DQE as detector datasheet in Appendix B Update the Dose/DAP specification in Appendix B
4	19-Feb-2019	Typo error update Delete note in Chpater8-Note: Images displayed on the operator console image viewer are not intended for diagnostic use. Change the 'Manual Detector Position Button' in Chapter 8 to 'Detector Tray Override'. Update Appendix C. Update Contact Information and RED Declaration. Add 17x17 detector, UPS, new stretcher table information. Add Detector Grip, Detector Handle in Chapter7,Wallstand left and right configuration in Chapter8. Add Acquisition Workstation, Networking,Minimum Printer, 10- and 12-bit printers, and Auto Protocol Assist (optional) in Specification. Add Wallstand Grid Lock,update applied parts in Chapter 8. Add Detector Weight Barrier Cover in Chapter7. Add Detector handle weight in Appendix B.

Table-1 Revision History

5	26-Aug-2019	Combined Upgrade kit manual in this manual-the second page. And add note as if applicable in the manual for HD and upgrade kit. Update table 2-7 and Page 8-32 Attenuation Equivalent mm Al of WallStand front panel to 0.6. Delete Non Wireless Configuration section in Chapter 8. Add Note: Foot step from floor, is 197mm or 170mm (if applicable) in Chapter 13. Update and modify the max tube angle of image pasting for Table Exam in Chapter 13. Update website link and steps of Customer Documentation Portal in Chapter 1.
6	25-Feb-2020	Typo updates. Change few UI pictures to match latest software Add AutoGrid in Chapter 8 Add Critical Care Suite in chapter 10 Add Automatic Protocol Assist in Chapter 10 Add Helix Workstation in Chapter 12 Add VolumeRAD with MAR in Chapter 13 Add Image pasting in Chapter 13 Add Dual Energy in Chapter 13 Add Eaton UPS Model in Appendix B Add Appendix D (Only for Brazil)
7	21-Aug-2020	Add System Cabinet Labels and Thailand QR code in Chapter 2. Update System Cabinet in Chapter 8. Update Add or Edit Exam in Chapter 15. Update CE mark in Chapter 2 for Slovakia. Add Turkish importer information in Introduction. Add SAR test data section to Chapter 7. Add Appendix D, only for China.
8	27-Nov-2020	Add Appendix (Only for Argentina) Update Appendix (Only for Brazil) Update Brazil ANATEL Mark and add China CMIIT in Chapter 2 Update RoHS for China in Chapter 2
9	04-Jan-2021	Update RED in Chapter 2 for Moldova Update Korean Certification Information in Chapter 2 for FlashPad HD 4343 Add information for input method switch in Chapter 1 and Chapter 9 Update periodic maintenance description in Chapter 14 Add detent description in Chapter 8
10	20-Apr-2021	Update and add website information in Chapter 1 Update Access Point in Chapter 2 Update CD(DVD) or USB media information in Chapter 15 Update Acquisition Workstation in Appendix B Add information for input method switch in Chapter 1 and Chapter 9 Remove Wall Box information in the Chapter 2 Update description of OTS lock release button in Chapter 8 Add Detector Certification Information for Nigeria in Chapter 2

Table-1 Revision History

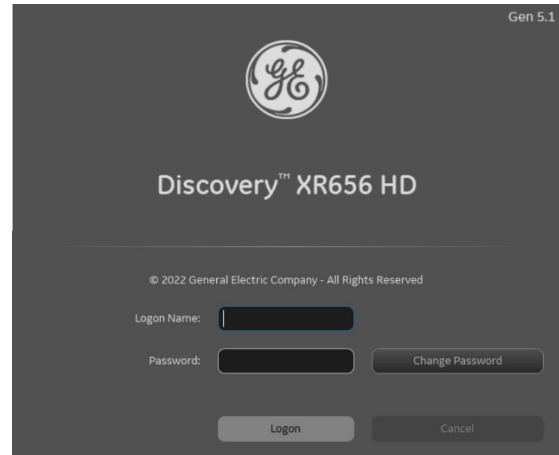| 11	16-Dec-2021	Add Manufacturer symbol in Chapter 2
		Update UDI description in Chapter 2
		Correct Table Finger Pinch description in Chapter 4 and Chapter 8
		Re-layout the Table sections in Chapter 8
		Correct Copy Images to Another Exam section in Chapter 12
		Update Appendix (Only for Brazil)
		Delete Appendix (Only for Argentina)
12	1-Aug-2022	Update manual layout
		Cover new feature in BOOK 2:
		Add new features and Software user interface description
		Add new OTS console information
		Update Cleaning and Disinfection in Chapter 14
		Update information in BOOK 3:
		Delete History and move the History section to BOOK 1
		Add Maximum Attenuation Equivalent for Weight Bearing Cover in Chapter 2
		Delete Equipotentiality symbol in Chapter 2
		Update iLinq in Chapter 4
		Add new type of Detector Battery Charger in Chapter 7
		Add Camera statement in Chapter 8
		Correct AutoGrid description in Chapter 8
		Add ruler information for Print Preview in Chapter 11
		Update Cleaning and Disinfection in Chapter 14
		Update Appendix (Only for Brazil)
13	28-Oct-2022	BOOK 1:
		Add the new revision history
		BOOK 2:
		Add Table instruction in Chapter 2 and Chapter 8
		Correct description of reverse tracking in Upgrade Configuration of Chapter 8
		Delete Appendix Only for China section
		BOOK 3:
		Add software information in Appendix only for China
14	27-Feb-2023	BOOK 1:
		Add the new revision history
		BOOK 3:
		Update production license number and address in Appendix D only for China
15	06-Mar-2023	BOOK 1:
		Add the new revision history
		BOOK 2:
		Update Network Connections in Chapter 15
		Add Software Name and Version in Chapter 2
		Remove Laser Light caution for Bar code scanner in Chapter 8
		Update Contact Information
		Add Appendix Only for Russia section
		BOOK 3:
		Update Network Connections in Chapter 15
		Update Appendix (Only for Brazil)

		Add Software name and version in Chapter 2 Remove Laser Light caution for Bar code scanner in Chapter 8

How to Read This Manual

This Manual includes three parts.

BOOK 1 of 3: General introduction and history in this part, as BOOK 1.
BOOK 2 of 3: Check the Login screen of the system, if the window as below (Gen 6 or Gen 5.1), read the BOOK 2.

BOOK 3 of 3: Check the Login screen, if the window as below, read the BOOK 3.