

Line #	Part #	Description	Qty
1		EasyDiagnost wWPD	1
		EasyDiagnost Eleva	

If customer orders the system quoted herein, and subsequently begins commercially selling a system that it identifies as a newer version of the same model or a successor replacement model for the model purchased in this quote then at discretion the order may be converted to the identified newer version of the same model system or the successor replacement model in accordance with this paragraph. This conversion can only take place up to, but not after, factory production of the originally ordered system has begun. For purposes of this paragraph, a direct successor system is intended to be a system that offers materially comparable functionality and technology to an ordered system and that is intended to serve as a competitive alternative or successor to the quoted system, provided that (i) it shall be in sole and exclusive discretion to determine that a system is a new version of the same model or successor replacement system that acts as the sole upgrade path for the order system and (ii) the existence of minor differences in functionality shall not preclude a system from being deemed a newer version of the same model or a successor replacement system. To communicate this option to Customer, shall present a revised quote for Customer approval, which quotation will outline the substantially similar feature configurations and options as the ordered system, and no change to the system's price, or, if Customer wants to change the configuration or options on the successor system, or avail themselves of additional functionality, then will adjust the quoted price of the successor system.

(a) If the quoted system is not yet in production, to exercise this option, Customer must approve the revised quote prior to production beginning on the ordered system and prior to the deadline provided by at the time of re-quoting. If customer does not approve the revised quote during this period, then Customer will be deemed to have declined the option and this system quotation will continue to apply.

The EasyDiagnost Eleva is a nearby controlled (conventional) R/F system for routine radiographic and fluoroscopic examinations like barium and iodine studies, dedicated vascular and non-vascular diagnostics as well as interventional procedures. All system controls are at tableside, so in every phase of the examination the patient can get full attention. The spring balanced servo assisted tower allows easily controlled movements. The system can easily be integrated in today's hospital and departmental workflow requirements.

Key features comprise:

- EasyDiagnost Eleva Stand and Digital Spot Film Device
- Eleva concept
- Ergonomic Eleva User Interfaces
- Accessories
- Remote access

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Stand and Spot Film Device feature:

- Durable and top quality stand, supporting an under table tube
- Servo assisted longitudinal and vertical movement of the tower for exact and fast positioning of the X-ray beam in all tilt positions
- Spring balanced and servo assisted compression movements for effortless GI work
- Covered table mechanics for protection of patient and user as well as an easy to clean system
- Anti-collision protection ensures safe movement of the stand during tilting and avoids damage to movable items (like stools, trolleys etc.)
- Compression stop that can be set in various positions for patient safety e.g. myelograms

Stand specifications:

Aramid tabletop

- Size 200 cm x 69 cm (78.7 inch x 27.2 inch)
- Maximum load 275 kg (606 lbs.) positioned in horizontal (0 degrees) table position or maximum load 250 kg (550 lbs.) in tilting table position without any longitudinal or lateral movement of the table plate or maximum load 180 kg (397 lbs.) in all positions
- Longitudinal movement +/- 83 cm (32.7 inch), constant speed of 6 cm/s (2.4 inch/s)
- Lateral movement -10 / + 9 cm, (-3.9 inch / + 3.5 inch), constant speed of 4.2 cm/s (1.7 inch/s)

Eleva Control Console

- Carrier for different image intensifier 23, 31, 38 cm (9,12 or 15 inch)
- Motorized oscillating and moveable carbon fiber covered grid 60 lines/cm (152.4 lines/inch), ratio 10:1, focus 80 cm (31.5 inch) without tube lift or 90 cm (35.4 inch) with tube lift
- AMPLIMAT measuring chamber with automatic selection of measuring fields
- Compression cone with motorized movement from and into parking position
- Automatic collimation in X- and Y-direction, secondary shutters close to image intensifier entrance
- Removable lead rubber radiation protection

X-ray shielding for under table tube operation resulting in optimal protection of the operator during routine operation

Eleva concept and Eleva User Interfaces

The Eleva concept increases productivity by adapting the system to the way you work: The system is customizable and performs to the users specification from pre-exam to archive to support varying workflow patterns (from high throughput exams to time consuming procedures) and increase overall efficiency.

The Eleva concept features:

Customizable system pre-sets like SpectraBeam RF filter selection (option) and pre-defined print formats.

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Bi-directional RIS coupling (option) automatically activating the appropriate Eleva system pre-sets to increase exam efficiency even more.

Exclusive User Interface Concept, including several modules:

- Eleva Examination Control and Hand Switch
- Eleva Stand Control at the Spot Film Device (examination room)
- Table Side Operation control (examination room)
- Eleva Footswitch (examination room)

Eleva Examination Control

The Eleva Examination Control (including keyboard and mouse) integrates all functions for patient administration, selection of acquisition and fluoroscopy parameters as well as all controls for operating the different subsystems in one user interface. It provides convenient, logical and ergonomic arrangement of controls and displays.

It supports the philosophy that only those controls and related displays are active that are required for a certain type of examination.

Eleva Handswitch

Ergonomically designed handswitch for exposure control from the control room (only in connection with Ceiling Suspension).

Eleva Stand Control at the Spot Film Device

To operate the system at table side (nearby operation).

All standard movements, operation of main imaging functions, fluoroscopy selection, image intensifier field size selection, collimator control, etc. can be selected without leaving the patient.

Eleva Control Console with:

- Table movement controls (tilting, lateral & longitudinal tabletop moves)
- Collimator control
- EasySelect display and control for Eleva settings
- SmartWindow display provides information on the system status
- Single/serial exposure technique selection
- Controls for 4 image intensifier formats
- Frame speed selection
- More operational functions needed for examinations

EasyGrip:

The ergonomic handle for ambidextrous one-hand operation on the system. All system controls are available at the table for full attention to the patient. The dynamic fluorograb button is integrated within reach for instantaneous grabbing of fluoroscopic images and complete runs.

EasySelect:

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Eleva programming parameters, dose levels and pulse rates can be selected via 10 soft keys for easy adjustment of examination parameters partly even under fluoroscopy.

SmartWindow:

Display of guidance for all operational functions of the EasyDiagnost Eleva. A clear, situation dependent online information for error free handling is provided to the user.

Table Side Operation (available only with 2nd tube option):

Located close to the footend of the table the TSO gives the user a convenient possibility to move the tabletop with the patient in the right position for e.g. phlebography studies. Longitudinal, lateral and tilting movements can be controlled.

Eleva Footswitch

For exposure and fluoroscopy control in the examination room.

Accessories

The following accessories are standard:

- Detachable footrest with easy-to-clean surface
- Pair of ergonomic handgrips

A wide range of accessories are available as option to support the systems' multifunctional capabilities.

Remote access

Access to the system's service software procedures from a remote location via network or modem connection. Remote access to a system can shorten the time needed for e.g. changing system settings or problem diagnosis.

It contains:

- License for use of the remote access service software

mShield:

mShield is part of an overall strategy to safeguard the data integrity of medical information systems.

It protects fluoroscopy modalities from potential malicious software attacks within the hospital network.

It decouples the modality from the network and creates a secure environment.

By restricting traffic to only authorized devices, mShield acts to prevent malicious activity directed from the modality to unrelated devices on your hospital network.

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Network communication can be restricted to DICOM communication and remote service only.

Thereby channels, which hackers need for attacks or which viruses need for spreading become unavailable.

The total system uptime can be increased.

The cycle time of required security upgrades (patches) can be elongated and synchronized with regularly maintenance activities.

No valuable treatment time is lost through system downtime or staff dealing with network problems.

Once installed it requires almost no maintenance or update.

mShield's design is based on the latest recommendations of international industry standard bodies, such as NEMA, COCIR and JIRA, which recommend firewalls as an "effective and flexible tool" to safeguard the data integrity of medical information systems.

The mShield hardware is designed to fit into a professional medical environment with dedicated robustness against high temperature or high- voltage hazards.

It is located between the modality and the department network.

mShield comprises:

- mShield hardware
- Software license and documentation on CD
- Dedicated modality rule types

The EasyDiagnost Eleva is based on the Windows7 operating system to ensure the highest level of security and productivity.

WPD set

wireless portable detector is part of the Eleva platform and defines a new dimension of flexibility and freedom within the radiography room.

Main benefits at a glance:

- DR speed and excellent image quality with the positioning flexibility comparable to CR
- Reduced patient infection risk and easy handling thanks to the detector's cable-free design
- Everlasting connection, no broken cable
- Easy handling for exposures in bed, wheelchair or weight-bearing feet
- Flexible positioning for lateral or oblique projections
- Instant image display
- State-of-the-art CsI detector technology and UNIQUE image processing for optimal image quality at the lowest dose

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- Easy, precise and safe positioning around the patient, even for difficult projections, provided by a rich set of dedicated accessories
- Wireless portable detector sharing license, to use the wireless detector on another compatible X-ray system

The wireless portable detector covers all relevant anatomy with its large detector area of 35 x 43 cm (14 x 17"). Depending on anatomy, it can be positioned in different orientations and offers full diagnostic information even with large patients. Combined with advanced UNIQUE image processing, grid-line correction algorithm and state-of-the-art Cesium Iodide (CsI) technology, it has an excellent quantum efficiency (DQE) and helps to reduce the required patient dose. It provides instant image display with superb image quality on the Eleva workspace for increased diagnostic confidence.

Thanks to its cable-free design, the wireless portable detector allows quick and efficient procedures with high hygienic standards. The integrated handle on the detector, its robust design and a rich set of optional dedicated accessories (mobile holder, bed holder, click-on grids, detector protector and hygienic bags) offer easy, safe and quick positioning in the room. Special projections like laterals can easily be performed without moving the patient. Its slim design is optimized for critical environments and minimizes the risk of interfering with life supporting equipment, cables, tubes and catheters.

The detector features advanced low-power WiFi connection technology and is designed according to IEC 60601-1-2. It is compliant with life supporting devices and with pacemakers designed according to IEC (EN) 45502-2-1. The detector battery is automatically recharged when the detector is placed in its wall-mounted docking station and can be used up to 2.5 hours without charging. An additional backup cable connection allows instant image transfer in case WiFi connection is not available or the battery power becomes low.

Specifications

- 35 x 43 cm (14 x 17") wireless portable digital flat detector with Cesium Iodide (CsI) technology, active detector area 34.1 x 43.2 cm (13.4 x 17"), resolution 7.1 megapixel (2372 x 3000 pixels), pixel pitch 0.144 mm, pixel depth 16 bits
- Image resolution: up to 3.47 line pairs per mm
- Weight: 4.8 kg (10.6 lbs)
- Maximum patient weight: 100 kg (220 lbs) for weight-bearing examinations
- WLAN network standard: IEEE802.11 a or g (configurable)
- Encryption: default WPA2
- Optional click-on grids 8/40/130: ratio 8, 40 lines/cm (100 lines/inch), focus 130 cm (51") for use with source-image distance from 110 to 180 cm (44" to 56"), available in portrait and landscape orientations

Comprising:

- Wireless portable detector 35 x 43 cm (14 x 17")
- wall-mounted docking station
- battery and backup cable
- Set of hygienic plastic bags
- Software licenses
- Wireless portable detector sharing license
- Documentation

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Compatible with:

- EasyDiagnost Release 5.0 and above

To protect a wireless portable detector investment, is offering an optional dedicated accident protection program. Especially for frequent usage and when sharing the detector between rooms or systems, it prevents hospitals from high replacement costs in case the wireless portable detector is damaged from an accidental drop.

mShield

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Network communication can be restricted to DICOM communication and remote service only.

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The total system uptime can be increased. The cycle time of required security upgrades (patches) can be elongated and synchronized with regularly maintenance activities. No valuable treatment time is lost through system downtime or staff dealing with network problems. Once installed it requires almost no maintenance or update.

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It is located between the modality and the department network.

mShield comprises:

- mShield hardware
- Software license and documentation on CD
- Dedicated modality rule types

Compatible with:

- EasyDiagnost Eleva Rel. 3.1 and higher
- EasyDiagnost Eleva DRF Rel. 3.1 and higher

Extended Digital Imaging

The Extended Digital Imaging System for the Eleva family offers high performance digital image acquisition for fluoroscopic applications. All image-processing parameters are pre-programmed

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instantly, so that EasyDiagnost Eleva is ready to acquire and display high quality digital images immediately. Due to the outstanding image quality, the user can prepare his diagnosis and report directly from the monitor, during or immediately after the examination.

Images can be acquired in 1K or 0,5K matrix sizes, with a maximum speed of 8 images/s or even 30 frames/s for 512 x 512 images (requires option High Speed Acquisition).

Live fluoroscopy images can be captured as single images or as complete runs. Any run of images can be displayed in a loop with adjustable speed and direction.

In addition it offers automatic on-line digital image processing and reviewing with the integrated ViewForum software.

Extended Digital Imaging offers printing facilities by preset layout, a number of preset layouts for specific examinations are available. The printing functionality can be extended with tailor-made printing protocols according to personal settings with the optional Print Protocol. Printing can be done by the touch of a button utilizing print protocols, which have been pre-programmed for the examination, making the workflow even more efficient.

Extended Digital Imaging is, in combination with the Subtracted Acquisition and Vascular Post processing option able to support vascular procedures.

Main features of Extended Digital Imaging:

- Acquisition
 - 12 bit deep digital image acquisition
 - Single and multiple shot exposures
 - Acquisition speed up to a maximum of 8 images/sec.
 - Acquisition matrix 1K or 0,5K
 - Acquisition memory of 1024 MB
 - FluoroGrab: grabbing of single fluoroscopic images
 - Dynamic FluoroGrab: grabbing of runs of fluoroscopic images
 - AutoStore of images into the ViewForum database on the hard disk
- Viewing
 - Easy navigation through examinations, runs and images
 - Viewing memory of 1 GB
 - On-line (re-)viewing of high quality images
 - Automatic, adaptive image processing
 - Automatic electronic shutters
 - Last Image Hold
 - Run Cycle: display of images in a loop with adjustable speed and direction
 - Flexible image overview
 - Excellent image quality by using optimized harmonization algorithms
 - Direct Mouse Manipulation (DMM)
 - User log-on
 - Default display protocols
 - Flexible screen layouts
 - Contrast, brightness, edge enhancement and grayscale inversion

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		<ul style="list-style-type: none">• Measurements (for length measurements in mm manual pixel size calibration is necessary)• Multiple free text annotation with adjustable font size• Copy annotation strings within a run• Up to 16 bit deep image processing• Automatic and manual asymmetric rectangular and circular electronic shutters• Rotate, flip• Zoom, zoom to shutter, pan• Magnification• Printing<ul style="list-style-type: none">• One-touch printing according to personal settings or preset layouts• Manual printing with free style layout• True size and scaled printing• Multi tasking: background printing• Paper printing• DICOM print• Storage<ul style="list-style-type: none">• Local storage on hard disk (minimum 72 GB)• AutoStore (to the hard disk) in the background• Archiving to e.g. PACS in the background with optional DICOM Export• Support of CD/DVD recording (CD/DVD-Storage SW license optional)• Movie export to *.avi• CR/F prepared (patient merge function)<ul style="list-style-type: none">• To create a fully digital RF suite by seamless integration of CR and RF studies in the same patient folder on ViewForum• Simplifies workflow by providing just one single case to PACS	

Comprising:

- Cabinet
- Acquisition memory of 1024 MB
- Alpha numeric keyboard
- Quick Review Module
- ViewForum keyboard with mouse for image processing
- Infrared viewpad for reviewing and postprocessing
- 72 GB hard disk
- 1 GB viewing memory
- CD/DVD writer/reader (note: CD/DVD Storage software license is optional)
- Floppy drive (3.5")

UPS

Uninterruptable Power Supply

The UPS feeds in case of a power breakdown the EasyDiagnost core components (System Controller, Remote Input/Output, Automatic Image Processing, ViewForum, Ethernet Switch, Firewall) to store images and/or complete the last task.

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- Bridging time: 60 minutes
- Max. charging time: 6h

Clinical Education Program for Digital R/F Systems

RAD Handover OnSite Education: Clinical Education Specialist will provide one 24 hour onsite training for RAD (Digital Radiography) for up to four(4) technologists, selected by the customer including technologists from night/weekend shifts if necessary. CEU credits may be available if the participant meets the guidelines provided by Philips. Depending on your system configuration, the first four (4) hours onsite may be spent configuring new equipment for specific clinical needs, as well as reviewing important safety features and quality procedures. Please read training guidelines for more information.

RF Handover OnSite Education: Clinical Education Specialist will provide one 28 hour onsite training for RF (Radiographic Fluoroscopy) for up to five (5) technologists, selected by the customer including technologists from night/weekend shifts if necessary. CEU credits may be available if the participant meets the guidelines provided by Philips. Depending on your system configuration, the first four (4) hours onsite may be spent configuring new equipment for specific clinical needs, as well as reviewing important safety features and quality procedures.

Please read training guidelines for more information. Note: Site must be patient-ready. personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref#226227-080418

Both RF (28 hours) and RAD (24 hours) weeks must run consecutively and students should attend both training sessions.

Training on DVD recorders (if purchased) will be conducted by the manufacturer of the DVD recording system

System Parts

- 989001003371 FLOOR PLATE EASY D. 45/90
- 989001003392 INSULATION KIT ED 45/90
- 989801220367 CABINET BOX (Quantity of 3)
- 980306690109 CABLES F/ EASY DIAG-SCP INSTALL
- NRFA791 UPS

2

**Bucky device for wireless
detector in the table**

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Easy-to-operate tray, allowing the positioning of the wireless portable detector in portrait or landscape orientation.

Automatic collimation for X-ray beam limitation to digital flat detector, according to pre-programmed examination parameters. Removable grid for optimal image quality and dose. An integrated three-field automatic exposure control chamber ensures optimum image quality with correct radiation dose even for difficult projections.

Comprising:

- Tray for wireless portable detector
- AMPLIMAT measuring chamber
- Removable grid: 40 lines/cm (100 lines/inch), ratio 8, focus 110 cm (44 inch) default. The grid specification might vary according to your selection.

3	Digital VS vertical stand with fixed detector	1
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height-adjustable VS vertical stand has a proven and smart design that makes no compromise on robustness, quality and work efficiency, even with challenging patients and difficult examination conditions. It enables wall stand applications for Chest and wall Bucky applications.

Main benefits at a glance

Vertical stand mounted on the floor, optimal for chest X-ray and all wall Bucky applications.

Wide size 43 x 43 cm (17 x 17") integrated digital flat detector.

Motorized height adjustment from 30 to 180 cm (11.8" to 5' 11") with two different speeds plus manual operation for precise positioning.

Customizable pre-defined positions (move-to-position) and numerous other well-planned features significantly reduce the physical demands placed on the technologist.

Easy patient positioning with counterbalanced large vertical movement range.

Large and ergonomic patient grips on both left and right sides of the detector for safe and comfortable patient positioning.

Convenient user interfaces on both left and right sides of the detector, for quick and easy adjustment of movements, collimation, field alignment and orientation, selection of automatic exposure control chambers, and tracking mode.

Five-field automatic exposure control chamber for optimal image quality and dose, as well as positioning flexibility.

Automatic collimation for X-ray beam limitation to digital flat detector, according to pre-programmed examination parameters.

Optional display on vertical stand column, for patient data in the examination room.

Removable oscillating grid for optimal image quality and dose.

Convenient storage for two grids within the detector unit for immediate and safe storage.

The motorized height adjustment from 30 to 180 cm (11.8" to 5'11") measured at center of detector above the floor, gives a total lift of 150 cm (4' 11.1") to adjust to a comfortable and safe working height with a choice of two different speeds.

The wide size 43 x 43 cm (17 x 17") integrated detector covers all relevant anatomy and offers full diagnostic information. Its Cesium Iodide (CsI) technology provides excellent quantum efficiency (DQE) and helps to reduce the required patient dose.

An integrated five-field automatic exposure control chamber ensures optimum image quality at the lowest possible dose even for difficult projections, and provides positioning flexibility for various examinations without moving the patient.

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UNIQUE advanced multi-resolution image processing allows for optimal "Contrast Harmonization". Details will be enhanced while the overall impression remains natural. If used in combination with PCR UNIQUE, equal image impression results on both modalities.

The removable oscillating grid can be stored conveniently and safely directly in the detector unit.

Specifications:

VS vertical stand

- Counterbalanced rugged column for motorized and manual vertical movement of the detector
- Vertical movement range: 30 to 180 cm (11.8" to 5' 11"), measured at center of detector
- Installation: floor and wall attachment, or floor only (optional)
- Detector unit: 59.6 x 57.5 cm (23.5 x 22.6")
- Automatic exposure control (AEC): 5 AEC measuring fields
- Operating: two user interfaces (left and right)
- Removable oscillating grid 40/8/140: 40 lines/cm (100 lines/inch), ratio 8, focus 140 cm (56") for use with source-image distance from 110 to 180 cm (44" to 71")
- Grid storage: for up to two grids within the detector unit

Detector

- Wide size 43 x 43 cm (17 x 17") integrated digital flat detector with Cesium Iodide (CsI) technology
- Pixel pitch 0.143 mm
- Pixel depth 14 bits

Comprising:

- VS digital
- XD-S workstation/package, including Digital flat detector 43 x 43 cm (17 x 17")
- UNIQUE advanced image processing
- Patient data display
- Default oscillating grid 40/8/140. A different default grid can be chosen in order questionnaire. Additional grids are available in accessories.
- Software licenses

4

**Tracking for BuckyDiagnost
CS**

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Tracking is a system option whereas the tube follows the image receptor in the Bucky wall stand in vertical and tilted position. It supports a smooth workflow and enables the user to maximize patient interaction.

Comprising:

- Adjustable SID
- Motorized drive of vertical tube movement
- Electronic motor control board with software
- Height sensor in Bucky wall stand

5		Detector holder for the patient bed	1
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The detector holder for the patient bed is designed to take full advantage of the wireless portable detector to perform free exposures at the patient bed.

Main benefits at a glance

- Slim design for easy positioning at the patient bed, Bucky table or trolley
- Holds the wireless portable detector in a safe and precise position, in portrait or landscape orientation
- Can hold the detector in a tilted position for angulated projections
- Very easy to put the detector in and to take it out
- Can hold the wireless portable detector with or without a grid on it
- Also compatible with 35 x 43 cm (14 x 17") CR cassettes

Specifications

- Dimensions: length 41.5 cm (16.3"), width 23 cm (9.1"), height 72 cm (28.3")
- Weight: 4 kg (8.8 lbs)

Comprising

- Detector Holder Patient Bed

Compatible with

- Wireless portable detector 35 x 43 cm (14 x 17")
- Large SkyPlate detector 35 x 43 cm (14 x 17")
- CR cassettes 35 x 43 cm (14 x 17")

6		Ceiling suspension including tube	1
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Ceiling suspension for over-table radiographic work with ergonomic handle, control buttons, and release brake, as well as convenient color-coding of movements.
Wide 16.5 cm (6.5") LCD display on tube head for clear status information.
Integrated centering laser in the tube head for easy positioning.

- Four-part aluminium telescopic column with spring counter balanced holder for X-ray tube assembly, adaptable to individual room heights
- Ceiling height at source-image distance 110 cm (44"): 2.65 m to 3.20 m (8' 8.3" to 10' 5.9")
- Minimum ceiling source distance: 87.1 cm (34.3")
- Possible room height adjustment: 37.5 cm (14.8")
- Lowest tube position: 30 cm (11.8") measured from center of beam to the floor
- Length of rails: base rails 4.3 m (14' 1.3"), optional rails extension 2.7 m (8' 10.3")
- Longitudinal travel: 3.44 m (11' 3.4"), 6.14 m (20' 1.7") with rails extension option
- Transverse travel: 1.50 m (4' 11") with short transverse rails, 3.22 m (10' 6.7") with long transverse rails
- Vertical travel: 1.65 m (5' 5.2")
- Rotation of focal spot around vertical axis of column: 360° (±180°), with rotation stop +180°/-165° and lock position every 45°
- Angulations of focal spot around horizontal axis: ±125°, lock positions 0° and ±90°

Control handle

- Centering device in longitudinal and transversal directions
- Brake/locking controls and central three-axis brake-release at lowest position of handle
- Wide 16.5cm (6.5") LCD information display and control buttons

Automatic Collimator

- Motorized automatic collimation, manual overrule possible, with light field indicator
- Angle of aperture and rotation: 2 x 15°, ±45°, depending on the collimator (see type number plate)
- Timer switch: up to 30 s
- Inherent filter value: <0.3 mm at 100 kV, depending on the collimator
- Added filters: 2 mm Al or 1 mm Al + 0.1 mm Cu or 1 mm Al + 0.2 mm Cu
- Source-image distance measurement tape

Equipment for cassette size sensing (automatic collimation) and automatic beam limitation for radiographic exposures on EasyDiagnost Eleva's second plane for improved workflow.
Sensing functionality detects the size of the inserted cassette or Portable detector and adjusts the shutters to the correct field size.

Comprising:
Sensing functionality in the automatic collimator

X-ray tube

High quality Super ROTALIX tube for the EasyDiagnost Eleva system.

Specification:

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- Tube voltage 40 - 150 kV
- Nominal focal spot values 0.6 / 1.2 (IEC 336/93)
- Anode diameter 90 mm
- Anode target angle: 13 degrees
- Anode heat storage capacity 300 kHU (220 kJ)
- Maximum continuous heat dissipation 250 W (with cooling)
- Maximum heat content of assembly 1700 kHU (1260 kJ)
- ROT 360 air-cooled ROTALIX housing with thermal safety switch.

7**15" I.I./TV-CCD****1****15-Inch (38 cm) Image Intensifier**

Image Intensifier / Television subsystem: X-ray imaging subsystem for fluoroscopy and Digital Imaging for EasyDiagnost Eleva

Image Intensifier

- 15-inch (38 cm) multi-mode image intensifier
- Possible field sizes: 15 12.2 9.8 and 6.7" (38 31 25 and 17 cm)
- Titanium input screen for high spatial resolution high DQE and low dose.
- Fibre optic output screen for high light-transfer efficiency and high contrast.

CCD

- Camera
- TV chain with 1024 x 1024 matrix CCD camera
- Horizontal and vertical scan reversal
- Average automatic dose rate control (ADC)
- Automatic gain control (AGC)
- Variable measuring fields

8**30 DEGREES
TRENDLENBURG****1****30 Degrees Trendelenburg**

90/30 tilting of the entire tabletop of the EasyDiagnost Eleva. This setting enables the user to move the patient from an upright position to a 30° head-down position (Trendelenburg) for various applications such as stomach colon or myelography etc.

A variable speed allows a smooth and careful start; acceleration to 6° moves the table quickly in the required position. Standardly the system slows down and stops at 0 for the user's convenience. A "no-stop" button next to the tilting handle avoids a stop in 0° position if an uninterrupted movement is required.

Specification:

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- Positive tilting angle: 90 degrees
- Negative tilting angle: 30 degrees (Trendelenburg position)
- Tilting speed: Variable from 0-6 degrees/s
- Tilting movement controls at Spot film device as well as on the tableside operation console (TSO) in case the over-table tube (option) is available.

9 **80 kW Generator with IQX** **1**

The 80 kW power pack is a microprocessor-controlled X-ray generator with sophisticated high-frequency inverter technology.

The generator is designed for a wide range of fluoroscopy and radiography applications. The unique dose-management system supports features like Grid Controlled Fluoroscopy, Pulsed Fluoroscopy and IQX. The generator is engineered for long-term reliability and a minimum single-space requirement.

Specification:

- Automatic and manual exposure techniques and automatic kV reduction (bolus chase)
- The generator supports the IQX function which regulates exposure settings during the exposure pulse (in-pulse controlled)
- Exposure output power:
 - kV 40 - 150 kV (Second beam table and wall Bucky)
40 - 125 kV (II TV exposures)
 - mA 1 - 1100 mA
 - ms 1 ms - 4 s with AEC (Automatic Exposure Control)
1 ms - 16 s without AEC
- Manual:
 - Two factor technique (kV - mAs)
 - Three factor technique (kV - mA - s)
- Automatic:
 - One factor falling load (kV)
 - Two factor constant load (kV/mA)

Automatic kV reduction (bolus chase)

Support of IQX Intelligent exposure

- Fluoroscopy techniques:
For enhanced image quality and dose management the generator supports continuous fluoroscopy, Grid Controlled Fluoroscopy (option) and Pulsed Fluoroscopy (option) techniques
- Fluoroscopy output power:
 - kV 40 - 110 kV
 - mA 0.2 - 6 mA
- Access times:
 - from fluoroscopy standby to fluoroscopy mode: < 0.3 s
 - from fluoroscopy to radiography mode: 0.4 - 0.8 s (dep. on tube)
 - from radiography to fluoroscopy mode: 0.4 s
- Up to two double-focus tubes can be operated by a dual-speed rotor control compatible tubes : RO, SRO, SRM
- Area Dose Calculation and display (option) and fluoroscopy entrance dose rate limitation

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Line #	Part #	Description	Qty
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- Automatic mains adaptation

IQX provides excellent, reliable and consistent image quality for digital exposures, both in static and dynamic studies. IQX controls and adapts the exposure parameters within the X-ray pulse. The automatic and fast regulation of kV during each exposure leads to crisp image quality for all types of studies, for all patients.

IQX features:

- Short exposure times eliminates motion blur.
Exposure times are kept within an application-dependent customizable time range. This ensures that every single image is correctly exposed and free from motion blur, even with rapidly changing density.
- Automatic kV-optimization.
IQX automatically adjusts the settings, relative to the standard kV-value recommended for a particular organ type. Thus the settings are optimized for the actual object density.
- Fast, in-pulse adaptation to (changes in) density.
This kV-adjustment takes place within the first millisecond of the exposure, enabling adaptation to sudden changes in object density (e.g. during dynamic studies).

Tube voltage: 55 -125 kV

Controlling range: customizable relative to a defined start value

10	DOSE CALCULATION	1
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Dose Calculation

Area dose product and patient entrance dose are calculated from the values of the examination known in the Eleva system (kV mA time patient settings etc.)

The system calculates and provides the values for:

- area dose
- area dose rate
-entrance dose
- entrance dose rate
and displays those on the Eleva Examination Control and on a Reference monitor (optional)

Includes:

- Dose calculation software license

Compatible with:

- EasyDiagnost Eleva

11	DoseWise incl. GCF	1
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Line #	Part #	Description	Qty
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SRM 22 50 Super ROTALIX Metal tube assembly, including tube housing and automatic collimator in combination with Grid Controlled Fluoroscopy (GCF).

Grid Controlled Fluoroscopy

GCF is a Philips exclusive method of pulsed fluoroscopy, providing superb image quality at minimum dose. This is achieved by the use of a grid-switched X-ray tube SRM 22 50 and the control of X-ray parameters kV, mA and time within each single pulse (in-pulse control).

Major features of GCF are:

- Excellent image quality for fluoroscopy with each single pulse
- Maximum dose reduction
- On the fly selection of three different pulse rates (user programmable between 0.5 to 30 f/s) and continuous fluoroscopy for maximum user flexibility
- Dedicated and proprietary pediatric settings with a further decreased pulse time and an optimized kV/mA-curve
- GCF lock-in mode to maintain image quality during abrupt variations in absorption e.g. bringing lead gloves in the beam to position a patient
- Adaptive measuring fields maintain a constantly high image quality even when the field of interest is limited by shutters moving in

It contains:

- Grid controlled fluoroscopy (GCF):
 - Pulse time: 5 ms - 20 ms (typical)
 - Pulse frequency: 0.5 - 30 f/s

High-quality SRM 22 50 Super ROTALIX Metal Tube with electronic grid for EasyDiagnost Eleva and DRF room solutions.

Specification:

- Tube voltage: 40-125 kV
- Nominal focal spot values: 0.5 / 1.0 (IEC 336/93)
- Anode diameter: 100 mm
- Anode target angle: 15 degrees
- Anode heat storage capacity: 380 kHU (280 kJ)
- Maximum continuous heat dissipation: 300 W (with cooling)
- Maximum heat content of assembly: 2040 kHU (1510 kJ)

ROT 504 GS Air-Cooled ROTALIX Housing with Thermal Safety Switch

Automatic X-ray beam collimator with:

- Motor driven rectangular and circular collimation
- Power-up selftest
- Auto calibration at power-up
- Supports a maximum of 4 pre-filters programmable with SpectraBeam RF

SpectraBeam RF

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Line #	Part #	Description	Qty
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SpectraBeam RF is an automatic X-ray beam spectrum optimization for EasyDiagnost Eleva. Depending on personal preference, regarding dose and image quality, the optimal filter can be pre-programmed in the Eleva settings for automatic selection.

Comprising:

- Automatic, remote-controlled spectral filter disk with 4 filter values
- 2 mm AL
- 1 mm AL + 0.1 mm Cu
- 1 mm AL + 0.2 mm Cu
- None

12	DICOM Package plus	1
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Package including Print, Image Export, WLM, MPPS, Media

This package provides the EasyDiagnost Eleva with a complete set of DICOM interoperability functions:

- DICOM Worklist Management
- DICOM MPPS
- DICOM Image Export (including Storage Commitment)
- DICOM Print
- DICOM Media

For further details, please refer to the DICOM Conformance Statement.

Buying this feature once for a system will make the functionality available on Eleva workspot and View Forum.

DICOM Worklist Management

Interface to Radiology Information System (RIS). Worklist handling via a DICOM Basic Worklist Management (BWLM). The DICOM connection allows the Eleva workspot to automatically load the acquisition modality's worklist from a RIS server. The worklist query can be performed broad (generic) or specific (patient oriented) and both interactively (on operator request) and automatically (in the background).

DICOM MPPS

DICOM Modality Performed Procedure Step (MPPS)

DICOM service for notifying the RIS server about start and end of performed procedure steps. The messages contain references to the originating worklist items (patient and procedure data), a list of exported DICOM images and post exposure data.

MPPS requires that the DICOM Worklist Management feature is enabled.

DICOM Image Export

DICOM Storage and DICOM Storage Commitment

The DICOM Image Export feature provides the DICOM Storage service to send images to PACS, archive or any other DICOM destination in DICOM format.

The Eleva workspot supports DICOM Greyscale Display Standard. Calibration of Eleva workspot and the receiving DICOM node will result in consistently same high image quality.

DICOM Image Export also includes the DICOM Storage Commitment service, allowing the Eleva workspot to be informed by storage destination if images have been securely stored. This trigger is used by the Eleva workspot to allow related images to be deleted locally.

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Line #	Part #	Description	Qty
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DICOM Print

DICOM Print interface for manual and automatic printing.

DICOM Print enables the user to transfer images to a networked DICOM imager with the choice of different printing modes:

Autoprint: automatic printing of DR images on predefined film layouts according to the examination presets.

Manual print: Manual image placement on predefined film layouts or image placement on free layout composing.

Please note that only printing via DICOM protocol is possible.

DICOM Media

Write media in DICOM format.

This feature provides the possibility to write all Patient images, Studies and single images onto CDs or DVDs which comply to the DICOM Media Interchange format.

Each CD or DVD will include a standalone Philips DICOM viewer.

Viewing the CD or DVD content will be possible on:

Any workstation that supports the DICOM Media Interchange format.

Any standard PC with the help of the Philips DICOM viewer on the CD or DVD.

Please note that viewing images from CD or DVD will not be possible on the Eleva workspot directly.

Comprising:

- DICOM Worklist Management software license
- DICOM MPPS software license
- DICOM Image Export software license
- DICOM Print software license
- DICOM Media software license

Compatible with:

- EasyDiagnost Eleva, Rel. 5.x

13

Eleva Examination Control-A

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Eleva Examination Control

The Eleva Examination Control (including keyboard and mouse) is a 19" flat panel color TFT LCD display designed for touch input. It offers sturdy hardware buttons to modify most frequently adjusted exposure parameters.

It integrates all functions for patient administration, selection of acquisition and fluoroscopy parameters as well as all controls for operating the different subsystems in one user interface.

The Eleva Examination Control user interface offers facilities for:
Patient and examination administration

Preparation:

- Manual entry of patient data
- Import of RIS work list (DICOM) (optional)
- Display of user-defined help text for room preparation and procedure

100475 EasyDiagnost Eleva DRF, Release 5.x

Line #	Part #	Description	Qty
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Examination:

- Automatic adaptation of X-ray parameters depending on patient age, size and weight, as retrieved from RIS
- Automatic selection of system settings according to scheduled examination from RIS
- Manual selection of acquisition parameters, like:
 - Auxiliary selection and indication
 - Selection and display of exposure parameters
 - Selection of parameters for special examinations like bolus chasing and full spine scan, etc. (optional)
 - Selection of predefined acquisition programs
 - Selection of different fluoroscopy flavors for pulsed fluoroscopy & Grid Controlled Fluoroscopy (optional)
 - Selection of spectral filters for fluoroscopy and exposure (optional)
 - Collimation on last image hold

Reporting:

- Printouts of dose report (optional)
- Support of DICOM MPPS (optional)
- Display of dose-information either calculated (Option: Dose Calculation) or measured (Option: Dose Measurement)

Comprising:

- Active Matrix TFT LCD display with anti-reflex touch front, hard coated top sheet
- Wide visible screen size: 19 inches diagonal
- Integrated hardware buttons for control of exposure parameters and system power on/off

14.	LCD 19" Control Room Monitor	1
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High-quality 19-inch LCD monitor for medical applications which is absolutely flicker-free and requires little space in the control room.

Specification:

- Monochrome display 19"
- Native format 1280 x 1024 SXGA
- Wide viewing angle
- High brightness with brightness control (500 cd/m2)
- Internal selectable lookup table for grayscale transfer function

Comprising:

- 19 inch LCD monitor
- Cable set
- Pedestal

15	LCD 19" Examination room monitor	1
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100475 EasyDiagnost Eleva DRF, Release 5.x

Line #	Part #	Description	Qty
		High-quality 19-inch LCD monitor for medical applications delivering flicker-free images. For use in the examination room as live monitor. The flat design requires little space in the examination room and is easy to maneuver due to its light weight.	
		Specification:	
		<ul style="list-style-type: none">• Monochrome display 19" LCD monitor• Native format 1280 x 1024 SXGA• Progressive display (flicker-free) mode• Wide viewing angle• High brightness with brightness control (500 cd/m2)• Internal selectable lookup table for grayscale transfer function• Internal power supply (110 - 240 VAC)• Weight: approximately 10 kg (3,9 lbs)	
16		MONITOR TROLLEY	1
		Monitor Trolley	
		Mobile support for 1 or 2 examination room monitors. It allows the user to position the monitors according to the procedure and preferred working position. The design allows easy handling and one-hand use.	
		Includes:	
		<ul style="list-style-type: none">• Monitor trolley for 1 or 2 monitors	
17		Clinical QC	1
		This convenient image statistic tool provides the advanced user with functionality to analyze rejected images by operators and rejection reasons. It serves as well for monitoring and analyzing general parameters. Data files can be downloaded for further usage or archiving on a standard PC.	
		It perfectly supports the quality standards of the department and supports teaching situations.	
		Comprising:	
		<ul style="list-style-type: none">• Software license	
		Compatible with:	
		<ul style="list-style-type: none">• EasyDiagnost Eleva 3.0	
18		Ankle Clamps	1
		For patients in a.p. or p.a. position in connection with shoulder rests.	
		Compatible with:	
		<ul style="list-style-type: none">• Diagnostic tables with footrest provided with 30 mm mounting hole accessory facilities	
19		PAIR OF SHOULDER RESTS	1
		SHOULDER SUPPORTS/ Pair of shoulder rests	

100475 EasyDiagnost Eleva DRF, Release 5.x

Line #	Part #	Description	Qty
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20		Ratchet Compressor	1
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Accessory with quick set lever stop. With transparent compression belt 23 cm wide.

21		Stretch grip f. wall stands	1
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To keep the patient's arm overhead or beside the Bucky unit during exposure.

To be insert at the Bucky unit at right or left side.

Comprising:

- Arm rest, U- shaped for different grip height, tiltable from -90° to $+90^{\circ}$ for height and side position
- wall holder for parking

Compatible with:

- BuckyDiagnost VS (advanced package)
- BuckyDiagnost VS with digital detector and DigitalDiagnost VM

22		Cable Carrier CS	1
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Additional carrier for suspension of cable hose from CS 2/4 or TV- monitor.

Comprising:

- Carriage for CS- ceiling rail with adapter for different cable hoses

23		Set of CS Ceiling Rails	1
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For longitudinal carriages of CS monitor ceiling suspension or auxiliary ceiling suspension; length 4.3 M.

Comprising:

- 2 CS rails.
- Adjustable end/stops.
- Spacer strips.
- Fixing parts.
- Brake rails.

Compatible with:

- CS 2 CS 4.
- Monitor ceiling suspension.
- Rail extension 9890 010 01622.
- Rail for cable carrier 9890 010 02422.