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Line #	Description	Qty
1	**DigitalDiagnost C90 VS Classic**	1

DigitalDiagnost C90

DigitalDiagnost is a premium direct digital radiography system with flat detector technology, based on modular components to allow for customization for all radiographic applications and workload requirements. It benefits from years of developmental experience and suggestions from satisfied customers all over the world who have had conventional and digital Philips Bucky systems. The system combines all the advantages of a digital radiography unit with the latest Philips advanced features for easy and ergonomic workflow.

Please note that depending on the particular room setup chosen, some options might not be available or already be included in the setup.

Main benefits at a glance:

- Flexible component-based geometry to fit specific needs
  - Uncompromising ergonomics due to complete system integration and special design
- High efficiency and high patient throughput due to powerful automated features
  - Two integrated Cesium Iodide (CsI) digital flat panel detectors for high patient throughput at superior ergonomics
  - Ample detector area for full diagnostic information even with large patients
  - Integrated centering laser in the collimator for easy positioning
- Dose reduction due to high detector quantum efficiency
  - Decrease in the number of repeat exposures due to the reduction of overexposed and underexposed images
  - Total radiation dose monitoring by an integrated area dose calculator
- Superb image quality due to state-of-the-art detector technology and exclusive UNIQUE 2 image processing
- Ceiling suspension with comfortable handle, control buttons, and modern release brake sensor, as well as convenient color-coding of movements
  - Wide 30.7 cm (12.1") full color LCD touch display integrated into the tube head for user control and status information
- Philips dual-focal rotating anode high power X-Ray Tube
- Support of relevant IHE profiles
- High flexibility for integrating into hospital network infrastructure
  - Windows 10 operating system
  - Customizable Eleva touch screen user interface
  - DICOM communication features available with the Eleva platform
  - State-of-the-art IT security and patient privacy architecture
  - Professional serviceability and remote service capabilities
- SkyPlate sharing license, to utilize a SkyPlate with this system coming from other DR rooms.

- Brilliant image display and excellent ergonomics due to Eleva examination Control Advanced.

Philips dual-focal high power SRO 33100 X-ray tube

Philips dual-focal (0.6 and 1.2 mm) rotating anode high power X-ray tube can be used for all general radiography applications at fast speed up of 1 second. It is particularly adapted for examinations requiring high power and is compatible with Philips VarioFocus. The anode target angle allows a 43 x 43 cm (17 x 17") X-ray field at minimum source-image distance of 100 cm (39.4").

Specifications:

- Two focal spots: 0.6 and 1.2
- Maximum power: 33 kW with focal spot 0.6, 100 kW with focal spot 1.2
- Anode angle: 13°
- Maximum tube voltage: 150 kV
- Anode heat storage capacity: 220 kJ (300 kHU)
- Assembly heat capacity: 1247 kJ (1,700 kHU)
- Minimum anode speed: between 8000 and 10,000 revolutions per minute
- Build in filter 2 mm Al (5/64")
- Total filtration minimum: 2.5 mm Al (105/1024")
- Double tube overload protection
- Total weight: 26 kg

Comprising:
- Philips X- ray tube SRO 33100
- X-ray housing ROT 380 (with CSM configuration)
- Standard clamp fitting
- Two thermal safety switches (tube housing temperature)

VarioFocus

Philips unique VarioFocus generator technology ensures optimal image resolution for all kind of examinations, by avoiding to compromise on which tube focus spot size to use, power load and exposure time. By using both focus spots simultaneously to define a variable focus spot, Philips VarioFocus automatically balances the power on both focus spots in a defined ratio, ensuring optimal image resolution at any required power. In addition, tube filaments are preserved through power balancing on both focus spots and reduced power load on each of them, which may result in longer tube life.

Comprising:
- Software license

Compatible with:
- Philips 50, 65, 80 kW generators
- Philips X-ray tubes RO1750, SRO0951, SRO2550, SRO33100

65 kW Generator

The 65 kW generator with a small footprint featuring modern architecture is based on a modular design using high performance components to enable a customer specific solution. The tube overload protection monitors temperature conditions in order to protect tube and housing parts from being damaged or destroyed by overstress. The automatic exposure control sets the exposure time according to exposure voltage and object characteristics in order to automatically obtain the correct exposure.

Specifications:

- Computer controlled converter X-ray generator
- Converter generator generates high voltage equivalent to DC voltage
- Nominal power (IEC): 65 kW
- Power: 65 kW
- Three phases, 380/400 V, 50Hz; 480 V, 60Hz
- Low or dual speed rotor control, depending on tube
- Max voltage: 150 kV
- Max current (at 80 kV): 800 mA
- mAs product: 0.4 to 850 mAs
- Exposure time: 1 ms to 4 s
- Maximum mains resistance at 400/480 V: 0.3 Ohm
- Maximum mains current at 400V: 134 A

Comprising:

- Generator 65 kW in cabinet

Compatible with:

- DigitalDiagnost 3.1 and above
- VarioFocus
- Philips tube SRO 33100

Option for replacement of 65kW generator with 80kW generator.

Ceiling Suspension

The ceiling suspension carrying the high power X-ray tube allows the freedom for a wide range of longitudinal and transverse movements in the room, allowing to perform table and vertical stand examinations, as well as lateral projections and free exposures using the SkyPlate detector or CR cassettes. Thanks to a four-part telescopic column, the system can be operated with only one hand and easily positioned close to the patient with the option to be fully motorized.

Specifications:

- Four-part aluminum 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"): 2.84 m to 3.21 m (9' 3.8" to 10' 6.3")
- 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 with Comfort Track and Comfort Move: 3.44 m (11' 3.4"), 6,14 m (20' 1.7") with rails extension option
- Longitudinal travel with Comfort Position (option): 3.28 m (10' 9.1"), 5.98 m (19' 7.4") with rails extension option
- Transverse travel: 1.49 m (4' 11") with short transverse rails, 3.21 m (10' 6.4") 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°
- Prepared for motorized movements in 5 axis

Comprising:
- Four-part telescopic column
- X-ray tube assembly with collimator
- Eleva Tube Head with wide 30.7 cm (12.1") full color LCD touch display
- Rail system, Installation cables and high voltage cables
- Set of marker for preferred source-image distance
- Philips Comfort Move system motorization

TH Table with SkyPlate Tray

Philips height-adjustable TH digital table 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 allows a variety of routine skeletal table examinations.
Main benefits at a glance:

- X-ray from head to toe, for all radiographic applications.
- Easy fine positioning through an eight-way floating tabletop with wide movement range
  - The floating tabletop provides significantly more coverage due to a wide travel range, allowing quick and effortless positioning
  - The high weight capacity enables examination of bariatric patients.
  - The motorized height adjustment gives a total lift of 40 cm (15.7") to adjust to a comfortable and safe working height.
  - The lowest position allows loading a patient who is in a wheelchair.
  - All motorized height movements and floating tabletop are activated with wide and easy-to-use footswitches. The footswitches can be locked for more safety during examination.
  - Two tabletop widths available, 75 cm (29.5") or 85 cm (33.5"), tray to place a 35 x 43 cm (14 x17") Philips SkyPlate.
  - Motorized height adjustment, easy horizontal and vertical patient positioning with large movement range, extremely robust with maximum patient load of 375 kg (820 lbs)
- Easy-to-operate tray, allowing to positioning the SkyPlate in portrait or landscape orientation
  - SkyPlate can be taken out of the table at any time for free exposures
  - The integrated tray allows placing a Philips SkyPlate in portrait or landscape orientation, to offer full diagnostic information even with large patients. At any time, the detector can be taken out of the table tray to perform free exposures in the room with high flexibility, even for the most challenging projections

- This feature is particularly useful to perform laterals, oblique, weight bearing feet or examinations in a bed or a wheelchair
- Hands-free operation via large footswitches; footswitches lock button to avoid accidental movements and ensure patient safety, optional hand-switch controlling all movements, which can be clamped at any place on both tabletop sides
- An integrated three-field automatic exposure control chamber ensures optimum image quality at the lowest possible dose even for difficult projections. The removable grid can be conveniently and safely stored directly in the detector unit.
- Automatic tube height adjustment depending on table height (tracking), 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, convenient grid storage within the detector unit for immediate and safe storage, electromagnetic brakes for a high level of patient security
  - Thus, the patient can be better examined and does not need to be moved during the examination which is particularly important for emergency and trauma cases

Specifications:
- Maximum patient weight:
  - 375 kg (820 lbs) in static center position
  - 318 kg (700 lbs) in center with all movements
  - 210 kg (460 lbs) off center with all movements
- Motorized height adjustment from 51.5 to 91.5 cm (20.3" to 36")
- Floating tabletop with sandwich design and Getalit overlay.
- Tabletop size:
  - 240 x 75 cm (7' 10.5" x 29.5"),
  - optional wide tabletop 240 x 85 cm (7' 10.5" x 33.5"),
- Tabletop travel:
  - longitudinal ±60 cm (±23.6"), transverse ±13 cm (±5.1") or ±18 cm (±7.1") with optional wide tabletop
- Tabletop edge section: flat locking rails for attaching Philips accessories.
- Tray in which a Philips SkyPlate can be placed in portrait or landscape orientation.
- Footswitches functions:
  - Table height adjustment up/down
  - Disengagement of tabletop brakes in longitudinal and transverse directions
  - Ability to switch on cross light in the collimator (all footswitches), footswitch interlock
- Optional hand switch: all footswitch functions for manual operation at the backside of the table
- Detector horizontal travel range: ±22.7 cm (±8.9")
- Removable grid 40/12/110: 40 lines/cm (100 lines/inch), ratio 12, focus 110 cm (44") for use with a source-image distance from 90 to 150 cm (36" to 59"). A different default grid can be chosen in the order questionnaire. Additional grids are available in the accessories section.

Comprising:
- Digital BuckyDiagnost TH height-adjustable table base and tabletop
- Tray for SkyPlate, default grid 40/12/110: 40 lines/cm (100 lines/inch), ratio 12, focus 110 cm (44")
- Software licenses
- Documentation

Second Controller for TH Table

A second controller for the TH table allows the same controls as the table footswitches (table up and down, release of floating tabletop), even if the footswitches are locked. It can be conveniently clamped anywhere on the tabletop side rails and provides a spiral cable for flexible handling.

Comprising:

- Controller with push buttons, spiral cable and integrated clamp mechanism.

Remark: with the BuckyDiagnost TF table, no motorized height adjustments are possible

Large SkyPlate Set

Philips SkyPlate is the next generation of wireless portable detectors. It is an integrated 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 of CR
- ISO compliant cassette size format (35 x 43 cm, 14 x 17 inch) to fit into standard operating room tables
- Reduced patient infection risk and easy handling thanks to the detector's cable-free design
- Easy handling for free exposures, 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
- Robust shell of the detector to protect it from water drops and dust
- Easy, precise and safe positioning around the patient, even for difficult projections, provided by a rich set of dedicated accessories

The SkyPlate large covers all relevant anatomy with its large detector area of 35 x 43 cm (14 x 17 inch). Depending on the anatomy, it can be positioned in different orientations and offers full diagnostic information even with large patients. Combined with Philips advanced UNIQUE 2 image processing, grid-line removal algorithm and state-of-the-art Cesium Iodide (CsI) technology, it has an excellent detective quantum efficiency (DQE) and helps to reduce the required patient dose. It provides instant image display with superb image quality on the Eleva workspot for increased diagnostic confidence.

Thanks to its cable-free design, the SkyPlate allows quick and efficient procedures with high hygienic standards. Its robust design and a rich set of optional dedicated accesso ries (mobile holder, bed holder, attachable grids and hygienic bags) offer easy, safe and quick positioning throughout the hospital.

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 designed according to IEC 60601-1-2 and with pacemakers designed according to IEC (EN) 45502-2-1 when keeping indicated distances.

The SkyPlate battery can be removed and recharged in the battery charging station. Once a battery is empty, a new one can be inserted to immediately continue working with the SkyPlate.

SkyPlate sharing allows taking the SkyPlate from the system and using it with other compatible Philips MobileDiagnost wDR, DigitalDiagnost or ProGrade systems. Thereby, SkyPlates can be used efficiently wherever needed and help drive down investment costs. Compatible systems need to carry the SkyPlate Sharing license to participate in SkyPlate sharing.

Specifications:

- Size: 35 x 43 cm (14 x 17 inch) SkyPlate large wireless digital flat detector with Cesium Iodide (CsI) technology
- Active detector area: 34.48 x 42.12 cm (13.6 x 16.6 inch) (2330 x 2846 pixels)
- Pixel pitch 0.148 mm
- Image resolution: up to 3.38 line pairs per mm
- Maximum patient weight: 100 kg (220 lbs) on a 4 cm disk for weight-bearing examinations
- WiFi network standard: IEEE802.11 a, b, g or n (configurable)
- Encryption: default WPA2
- Optional attachable grids:
  - Portrait orientation: 44/8/130: 44 lines/cm (112 lines/inch), ratio 8, focus 130 cm (51 inch)
  - Landscape orientation: 40/8/130: 40 lines/cm (100 lines/inch), ratio 8, focus 130 cm (51 inch)

Comprising:

- SkyPlate large 35 x 43 cm (14 x 17 inch)
- Two exchangeable batteries
- Set of 100 hygienic bags
- Software licenses
- Documentation

Compatible with:

- DigitalDiagnost Release C90 and 4.x
- MobileDiagnost wDR Release 2.x
- ProGrade 1.x
- CombiDiagnost R90
- ProxiDiagnost N90
- Attachable grids for SkyPlate 35 x 43 cm (14 x 17 inch) in portrait and landscape orientation

SkyPlate Infrastructure Kit

The SkyPlate Infrastructure Kit is comprised of a wireless access point, a battery charger and a back-up cable.

Main benefits at a glance:

- All-in-one kit to set the customer up with the necessary parts for working with the Skyplate
- State-of-the art components

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The access point enables the wireless transmission of clinical images from the SkyPlate to the access point. The access point is hard wired to the radiography system and images are sent from there to the Eleva work station for review, editing and further distribution. The battery charger is designed to charge up to three batteries simultaneously. The back- up cable enables the transmission of clinical images in the case that there is no wireless transmission between the SkyPlate and the wireless access point possible.

Specifications:

- Wi-Fi access point
  - according to regional requirements for Wi-Fi transmissions
- SkyPlate battery charger
  - It offers a 4 bar charge status color indication per battery: 0-25%, 25-50%, 50-75%, 75-100%.
  - IP41 compliant (IEC60529).
  - Dimensions 172 x 322 x 48 mm
  - SkyPlate back- up cable

Compatible with:

- SkyPlate large 35 x 43 cm (14 x 17")
- SkyPlate small 24 x 30cm (10 x 12")

Digital VS with Fixed Detector

Philips 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 is optimal for X-ray departments specializing in thorax examinations. The motorized tilting option extends possible application range to extremities, skeletal examinations, and even under-table examinations using a trolley.

Customizable pre-defined positions (move-to-position) and numerous other well-planned features significantly reduce the physical demands placed on the technologist. Enjoy 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. The rotatable patient stretch grip can be positioned on top left or right side of the detector.

The vertical stand VS comes with 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. The wireless remote control provides all commands of the side user interfaces.

The vertical stand VS comes with five-field automatic exposure control chamber for optimal image quality and dose, as well as positioning flexibility, automatic tube height adjustment to detector height (tracking), automatic collimation for X-ray beam limitation to digital flat detector, according to pre-programmed examination parameters. The optional motorized detector tilting (-20° to +90°) supports examination of patients on a stretcher, plus straightforward exams of extremities for seated or standing patients. 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.
Specifications:

- 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")
- Optional tilting: -20° to +90° motorized
- Automatic exposure control (AEC): 5 AEC measuring fields
- Operating: two user interfaces (left and right)and wireless remote control
- 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

Comprising:

- Digital BuckyDiagnost VS vertical stand
- Digital flat detector 43 x 43 cm (17 x 17")
- Default oscillating grid 40/8/140: 40 lines/cm (100 lines/inch), ratio 8, focus 140 cm (56")
- Stretch grip

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. The removable oscillating grid for optimal image quality and dose can be stored conveniently and safely directly in the detector unit.

Specifications:

- Wide size 43 x 43 cm (17 x 17") integrated digital flat detector with Cesium Iodide (CsI) technology
- Active detector area 42.0 x 42.5 cm (16.5 x 16.7")
- Resolution 8.2 megapixel (2840 x 2874 pixels)
- Pixel pitch 0.148 mm
- Pixel depth 16 bits
- Image resolution: up to 3.4 line pairs per mm

Comfort Move

With Philips Comfort Move relevant parts of the system geometry are motorized to support a fast, smooth and automated workflow within the daily routine in the X-ray room. Collimation and collimation- light are set automatically to further release the user from making manual adjustments for routine procedure steps. Automatic Image Stitching exams (optional) with the fixed detector as well as with the large SkyPlate can be fully performed automatically with the vertical stand or on the table, including precise tube rotation and linear detector movements. The motorization of the X-ray table allows for easy table height adjustments to accommodate the requested working height.

This capability removes the need for physical involvement from the user or the patient. With a single click, tube and detector can be linked to keep the source- image- distance (SID) constant while adjusting the proper working height of the X-ray table (tube tracking). The motorization of the

vertical stand makes it easy to set the appropriate detector height according to the height of the patient. This capability offers additional workflow enhancements on the system by enabling the upright Bucky unit to be automatically placed in different pre-defined positions. With a single click, tube and detector can be linked to keep the tube centered to the detector while setting the correct height of the detector (tube tracking). For specific examinations, the tube can automatically be positioned off-center to align the X-ray beam with the upper or lower border of the detector.

A convenient room height adjustment at installation allows the system to fit almost any room height, to achieve the necessary source-image distance above the table, and to go down to the floor for lower extremity work.

A modern control handle integrated into the Eleva Tube Head that comes with a 12" touch screen allows the user to operate many settings of the system directly at the tube head. As the Eleva Tube Head provides the most common used Eleva functionalities known from the Eleva console, operating the system is now also possible from inside the examination room. The clear 12" touch screen is also offering all relevant patient information. The Eleva alternative workflow concept, automatic tube tracking, detector alignment, and move to position functions provide high projection flexibility plus quick and easy handling.

Specifications:

- Centering device in longitudinal and transversal directions
- Brake/locking controls and central touch sensor for three-axis brake-release at lowest position of handle
- Wide 30.7 cm (12.1") full color LCD touch display for control and information
- Motorized automatic collimation, manual overrule possible, with light field indicator
- Angle of rotation: ±45°
- Timer switch: up to 30 s
- Inherent filter value: 0.3 mm at 100 kV
- Added filters for clinical use: 1 mm Al + 0.1 mm Cu or 1 mm Al + 0.2 mm Cu

Comprising:
- Integrated filter for detector calibration: 2 mm Al + 0.5 mm Cu
- Source-image distance measurement tape

Live Camera Package

The Live Camera Package takes the DigitalDiagnost to the next level. The Eleva Tube Head is enhanced with a live camera for extended Eleva control right in the exam room. This helps alleviate potential imprecise collimation (as with obese patients) and assists with patient positioning. Time consuming retakes that add unnecessary dose can be reduced. Moreover the Live Camera Package contributes to a fast setup time. Live images of the collimated anatomy are displayed continuously during the exam, for guidance. Display of collimated area at the tube head and at the Eleva workspot helps detect patient movement and supports correct collimation.

Specifications:

- 800 x 600 pixels resolution
- IR cut filter for natural colors
- Highly light sensitive for low light environments
- Low latency for precise positioning

Comprising:

- Camera
- Software licenses
- User documentation

Eleva Examination Control Advanced

The innovative Eleva workspot of DigitalDiagnost lets you experience simplicity like never before. Designed with input from customers, it provides a clear and intuitive touch screen user interface. It is easy to learn and use, and is highly configurable to adapt to particular needs and specific workflows, resulting in high room efficiency.

The smart design of Eleva Examination Control Advanced (EEC-A 2MP monitor) combines two consoles in one, allowing space saving in the control room and a more efficient workflow: the flat 21.3" high quality LCD color display provides touch screen technology for intuitive and efficient use. For more convenience during particular procedures like trauma, the EEC-A 2MP Monitor is usable with or without gloves. As it is also specified for diagnosis, the Eleva workspot monitor provides you with excellent resolution of images at 1600 x 1200 pixels. The display is DICOM calibrated for room environmental illuminance from 0 to 500 LUX.

The high workflow automation possible through the Advanced Eleva concept allows concentrating on patients instead of on the system. The touch screen user interface, the integrated generator controls, and the automatic setting of exposure parameters based on patient and examination information coming from the RIS, provide quick and easy access to all functions a busy technologist needs to achieve an efficient workflow. In addition, the Eleva alternative workflow concept provides the flexibility to adapt to particular situations and change the planned examination protocol without readjusting any exposure settings.

The Philips Eleva Workflow plus package provides smart tools for an improved and fast workflow. It is complementary to the Advanced Eleva functionality provided with the X-ray system as a standard. Especially designed for high throughput environments, the Eleva Workflow plus package helps the user to focus on the patient and the examination instead of focusing on system handling and workflow.

Automatic markers are generated, displayed and stored/ printed automatically for CR and DR images.

The intuitive RIS code learning feature allows for "on-the-fly" configuration of new or changed RIS codes directly within the worklist environment. The RIS can be filtered on a detailed level for improved schedule planning and fast access to specific patient information.

The "Generator only" mode allows additionally for free exposures on e.g. CR cassettes or film cassettes without the need to schedule the patient in the system worklist.

Furthermore, the Eleva Workflow Plus package allows access to Eleva's "advanced user" environment for individual customization and configuration of the user interface, such as tool bar configuration, user management, analyzing system statistics and adaptation of the anatomical data base and image processing. The Philips Eleva Review plus package was developed for workflows, where intense image review plays an important role. Dedicated tools help to manipulate, compare, measure and prepare images before being archived in a PACS or being printed on film.

The full screen mode allows for improved clinical review and quality management of images.

Thanks to the multiple image display (display 1, 2 or 4 images), previous images can be directly compared to newly acquired images.

Additional zoom and pan functions, dedicated zoom settings to the point o f interest, size calibration and extended measurement functions like distance and angle are required for precise quantitative image analysis.

Semi-automatic rotation and free image rotation in 0.5 degree steps provide fast image correction in the case of angulated or oblique projections.

Annotations such as free text or pre-defined markers (e.g. L/R) can be customized and freely placed within images.

The simple ranger tool allows for dedicated image processing of an anatomically relevant image area for optimal display of challenging structures, e.g. metal implants or small foreign particles.

DICOM Package Plus provides all DICOM communication features available with the Eleva platform. This includes DICOM Worklist Management for pulling the modality's worklist directly from the RIS server and DICOM MPPS for notifying the RIS server about start and end of performed procedure steps.

Furthermore, it provides DICOM Image Export (including Storage Commitment) for storage service and sending images to PACS, DICOM Print for manual and automatic printing from the Eleva workspot, and DICOM Media to burn media in DICOM format including DICOM viewer on a CD / DVD directly from the Eleva workspot.

With UNIQUE 2 (UNified Image QUality Enhancement) Philips introduces the second generation of our well-established image post processing software. By increasing the image contrast and reducing noise and artifacts, we address today's radiologists' needs. UNIQUE 2 processed images result in improved visibility of details while the overall impression remains natural. UNIQUE 2 is seamlessly integrated into DigitalDiagnost. By means of a newly designed interface, image parameters can be easily adapted for each anatomy type, depending on the preferred focus. For ease of use, all settings can be customized through well-structured sliders within the interface.

The Eleva Advanced Dose Reporting allows printing of the individual patient dose report as well as the cumulative daily dose reports via network connection on a paper printer in PostScript format (not part of this package) for easy dose management.

Specifications:
- Processor: Intel® Core i5-6500 (up to 3.60 GHz, 6 MB Cache)
- Hard disk: 240 GB SATA SSD
- Image storage: typically around 10,000 images
- 16 GB RAM
- 24 x CD / 8 x DVD reader/ writer
- Ethernet 10/100/1000 Base-T Gigabit
- Geometry interface
- Detector interface
- Integrated generator control

Comprising:
- Eleva workspot computer
- Keyboard and mouse
- Cables
- EEC-A 2MP Monitor
- Eleva application and examination database software and licenses
- Eleva Workflow Plus license
- Eleva Review Plus license

- DICOM Package Plus
- Eleva Advanced Dose Reporting license
- Windows 10 system software and licenses
- UNIQUE 2 advanced multi-resolution image processing
- Dynamic reconstruction image processing software
- Shutter and Image Verification tool, Solid Core Software and license
- Instruction for use
- Quick reference guide
- User documentation
- Memory stick support to access quality control and statistic data
- SkyPlate sharing license, to utilize a SkyPlate with this system coming from other DR rooms

DigitalDiagnost provides built-in privacy according to HIPAA recommendations, and security and interoperability standards. The cryptography modules system components also ensure compliant transmission of data in accordance with the specifications of the Federal Information Processing Standard (FIPS) 140, as required by governmental institutions in the United States of America. It integrates seamlessly into the hospital network and provides embedded anti malware measures as well as restricted access to prevent the system from unauthorized use. It supports connection to a Radiology Information System (RIS), to DICOM-compatible diagnostic units and archives and to DICOM images, according to the relevant IHE profiles.

Clinical QC

Clinical QC is a powerful image statistic tool providing the advanced user with functionality to analyze rejected images regarding operators and rejection reasons.
It serves as well for monitoring and analyzing general parameters. The data files can be downloaded in standard format for further usage or archiving on a PC. It perfectly supports the quality standards of the department and teaching situations
Note: for Essenta DR, Essenta DR Compact, EasyUpgrade DR and PCR Eleva systems, generator data will not be reported automatically.

Comprising:
- Software license

Compatible with:
- DigitalDiagnost 2.0 and above
- DigitalDiagost C50
- DuraDiagnost 1.0 and above
- Essenta DR 1.0 and above
- Essenta DR Compact 1.0 and above
- MobileDiagnost wDR
- EasyUpgrade DR 1.0 and above
- PCR Eleva 1.0 and above
- ProGrade Rel 1 and above
- CombiDiagnost R90
- ProxiDiagnost N90

Wide Tabletop

Completely flat, wide carbon fiber tabletop with plain surface, with convenient aluminum rails on both long sides for fixing accessories.

Specifications:

- Type: X-ray transparent floating tabletop
- Material: carbon fiber
- Dimensions: 240 x 85 cm (7' 10.5" x 33.5")
- Tabletop travel: longitudinal ±60 cm (±23.6"), transverse ±18 cm (±7.1")
- Attenuation equivalent: less or equal to 0.75 mm (0.03") Al at 100 kV

Comprising:

- Wide tabletop
- This option replaces the standard 240 x 75 cm (7' 10.5" x 29.5") tabletop

Remark:

With DigitalDiagnost, the wide tabletop must be selected to allow the combination with an additional VM vertical stand.

Adapt. Transf. 415-480 V

Comprising:

- three-phase transformer for mains supply voltage adaptation of 415/440/460/480 V to 400 V and for 380/400 V for mains supply without
  N (neutral) to be built into the base of generator.

Compatible with:

- Generator OPTIMS 50, 1tube
- second tube connection
- extension to 65 kW
- extension to 80 kW

Uninterruptible Power Supply (UPS) for the Eleva workspot computer and monitor.

The device provides emergency power to the Eleva workspot in case of electrical network power failure, allowing to bridge time to safely store images and complete the last tasks.
It provides instantaneous protection from input power interruptions by means of an integrated battery and electronic circuitry, allowing to continue working for approximately 60 minutes.

Specifications:

- Allows using the Eleva workspot for approximately 60 minutes after main power interruption
- Typical charging time: approximately 4 hours
- Typical heat emission: 4 W (5 W max) in standby, 86 W (99 W max) in operation
- Dimensions: depth 48.3 cm (19"), width 21 cm (8.3"), height 43.2 cm (17")

- Weight: 25 kg (55 lbs)

Comprising:

- UPS device including holder for vertical positioning, power cable

Cabinet Box

Pre-deliverable mounting material.

Cable Carrier CS

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

Handover OnSite Education

Philips Education Specialists will provide twenty-eight (28) hours of education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Students should attend all 28 hours, and must include any OffSite education attendees if applicable. 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 guidelines for more information. Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Recommendations: In order to enhance customer satisfaction with image quality over the first year, we highly recommend that part# 989801292145, XR Add OnSite Clin Educ 16h is purchased. This training will assist the customer in maximizing the unique image quality pre-sets to suit their facility's needs. Clinical Education highly suggests the image quality visit occur two to four weeks post initial handover.

Education expires one (1) year from equipment installation date (or purchase date if sold separately).

Component Summary:

- VarioFocus
- 65kW Generator (optional upgrade to 80kW)
- Ceiling Suspended X-Ray Tube
- TH Table with SkyPlate Tray
- Second Controller for TH Table
- Large SkyPlate Set
- SkyPlate Infrastructure Kit
- Digital VS with Fixed Detector
- Comfort Move (optional upgrade to Comfort Position)

Line #	Description	Qty

- Live Camera Package
- Eleva Examination Control Advanced
- Clinical QC
- Wide Tabletop
- Adapt. Transf. 415-480V
- Uninterruptable Power Supply (UPS)
- Cabinet Box
- Cable Carrier CS
- Handover OnSite Education

2   **Seismic Qualification is not required**   **1**

Only for "Seismic configuration required":

The seismic qualification and certificate for DigitalDiagnost is in accordance to the California Building Code (defined by California's Office of Statewide Health Planning and Development - OSPHD), as requested by some hospitals in California.

3   **Upgr. to 80kW Generator**   **1**

The 80 kW generator with a small footprint featuring modern architecture is based on a modular design using high performance components to enable a customer specific solution.
The tube overload protection monitors temperature conditions in order to protect tube and housing parts from being damaged or destroyed by overstress.
The automatic exposure control sets the exposure time according to exposure voltage and object characteristics in order to automatically obtain the correct exposure.

Specifications:

- Computer controlled converter X-ray generator
- Converter generator generates high voltage equivalent to DC voltage
- Nominal power (IEC): 80 kW
- Power: 80 kW
- Three phases, 380/400 V, 50Hz; 480 V, 60Hz
- Low or dual speed rotor control, depending on tube
- Max voltage: 150 kV
- Max current (at 80 kV): 1000 mA
- mAs product: 0.4 to 850 mAs
- Exposure time: 1 ms to 4 s
- Maximum mains resistance at 400/480 V: 0.2 Ohm
- Maximum mains current at 400V: 160 A

Comprising:

- Generator 80 kW in cabinet

Line #	Description	Qty
	Compatible with:	

- DigitalDiagnost C70 and C90
- VarioFocus
- Philips tube SRO 33100

4   **Additional set of documentation**   **1**

Additional set of documentation

5   **Motorized tilting of the VS vertical stand**   **1**

The motorized tilting option for VS vertical stand brings workflow enhancements on the system by enabling the upright Bucky unit to be automatically or manually placed in different angulations.

Main benefits at a glance

- Extends the possible application range to extremities, skeletal examinations, and even under-table examinations using a trolley.
- Reduces technologist physical involvement by providing motorized tilting movements.
- Tilting by just pressing a move-to-position button to a pre- defined angulation or by pressing and holding a dedicated movement button.

Specifications

- Tilt from -20° to +90° horizontal position, via 0° vertical position

Comprising

- Tilting mechanism between vertical stand column and Bucky unit
- Electronic controlled motor drive
- Set of cables
- Software license

6   **mShield**   **1**

Philips mShield is part of an overall strategy to safeguard the data integrity of medical information systems. It protects PCR Eleva 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. Network communication can be restricted to DICOM communication and remote service only. Thereby channels, which hackers need for attacks or viruses need to spread 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.

Philips mShield is always recommended if the system becomes part of a hospital network.

Line #	Description	Qty

Philips 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.

Comprising:

- mShield hardware
- software license and documentation on CD
- dedicated modality rule types

7   **Set of CS Ceiling Rails**   **1**

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.

OPTIONS

Line #	Description	Qty			
1	**Automatic Image Stitching**	1			

Optional patient stand for better patient positioning

The Automatic Image Stitching software is an advanced orthopedic feature to perform long lengths imaging fully automatically. After the automatic acquisition of the image set (up to three images depending on the requested body part), a composite image is created instantly on the DigitalDiagnost Eleva workspot.
Depending on the examination, images can be acquired in upright position at the vertical stand as well as horizontally on the table.

Due to the precise rotation of the tube around a defined center point, image acquisition is performed with a single focus instead of multiple foci resulting in more accurate image overlaps and minimized image distortion.
UNIQUE image processing is applied automatically to the completed composite image to ensure a harmonized image contrast and image impression. The automatic image stitching package includes tools to measure Cobb's angle, femoral head difference and vertical alignment of the vertical spine.

When combined with PCR integration (DigitalDiagnost R2.x or above), this software also allows performing automatic image stitching with long view PCR cassettes.

Main benefits at a glance

- Simple to use for the technologist by only defining the collimation on the patient
- System automatically acquires the number of necessary images based on the defined collimation
- Automatic tube and detector movements during acquisition
- Acquisition of two or three images depending on collimation
- Single-focus tube rotation to minimize image distortions
- Automatic software stitching images together in one composite image
- Stitching procedures vertically as well as horizontally
- Support of CR and DR stitching (fixed detectors as well as with SkyPlate)
- Dedicated orthopedic measurements included
- Stitching software algorithm based on anatomical structures and lead ruler

Specifications with fixed detector

- Number of acquired images: up to 3
- Patient coverage: up to 120 cm (47") with minimum source-image distance 260 cm (102")
- Patient coverage on TH table: up to 90 cm (35.4")
- Overlap area between images: 4.5 cm (1.8")

Specifications with SkyPlate

- Number of acquired images: up to 3

Line #	Description	Qty			

- Patient coverage at vertical stand
- Portrait orientation: 117,3 cm (46.2")
- Landscape orientation: 94,5 cm (37.2")
- Patient coverage at the table
- Portrait and landscape orientation: 90 cm (35.5")
- Overlap area between images: 4.5 cm (1.8")

Comprising

- Automatic Image Stitching software and license
- Removable stitching oscillating grid:
  - For DigitalDiagnost release 3 and above: grid 40/8/180: 40 lines/cm (100 lines/inch), ratio 8, focus 180 cm (71") for use with source-image distance from 126 to 315 cm (50" to 124")
  - For other DigitalDiagnost versions: grid 36/8/180: 36 lines/cm (90 lines/inch), ratio 8, focus 180 cm (71") for use with source-image distance from 126 to 315 cm (50" to 124")
- Lead ruler
- Stitching Application Guide

Compatible with

- High speed rotor control only
- X-Rax Tube SRO0951, SRO2550, SRO33100
- DigitalDiagnost software release 1.5 and above
  - Requires CS Motorization (Rel.1.x, Rel.2.x Rel.3.x and Rel.4.0, optional)
  - Requires min. Comfort Move (from Rel.4.1 onwards)
- VS and VM vertical stands
- Not for systems with VE or VT vertical stand or 2nd ceiling suspension
- Horizontal stitching with VM vertical stand in a single detector configuration (e.g. Flex Room) requires the TH-S table

Remark: Ceiling suspension with long transverse rails is recommended to easily reach the necessary source-image distance of 3 m (118")

2	**Dose Reporting in DICOM Structured Report format**	1

This DICOM service allows exporting patient radiation dose details in the Structured Report DICOM standard format.

Main benefits at a glance

- Standard, modern and comprehensive format for exporting patient radiation exposure information
- Exports dose information on study (accumulated) and exposure levels
- Allows detailed exposure dose monitoring on the PACS or dedicated dose management system

OPTIONS

Line #	Description	Qty

Typically, one dose report is created at the end of each procedure step performed on the system. This dose report collects together all the irradiation events from the procedure step and cumulates all dose values for the procedure step as a whole.

By exporting patient radiation dose in a comprehensive, very detailed and standard format, DICOM Structured Report allows to perform precise dose monitoring and analysis on the PACS or with a dedicated dose management system. This assists institutions to ensure their policies, procedures and protocols are adequate and being followed appropriately in the department. Moreover, it can help determining how changes in techniques and protocols impact radiation dose as well as image quality, to maintain patient doses As Low As Reasonably Achievable (ALARA).

Comprising

- Software license

Compatible with

- DigitalDiagnost 3.1 and above
- MobileDiagnost wDR 1.1. and above (Dose Area Product Meter required)
- EasyDiagnost 5.0
- ProGrade Rel 1 and above
- CombiDiagnost R90
- ProxiDiagnost N90

3   **Extra lead ruler for stitching procedures**   **1**

This extra long lead ruler is required to do long length imaging procedures on the table. The ruler is identical to the one included in the Image Stitching option.

Comprising

- Long lead ruler

Compatible with

- TH and TH-S tables, TA-M trolley
- DigitalDiagnost software release 1.5 and above
- Image Stitching license is required to stitch the individual images together

4   **Stand for easy patient positioning**   **1**

OPTIONS

The patient support is a movable stand recommended to facilitate long length acquisitions like legs and spine stitching procedures with a vertical stand.

Main benefits at a glance

- Makes stitching examinations easy and reliable by having the patient standing comfortable, confident and still
- Comfortable and secure for the patient to stand on, thanks to a wide and stable footplate and large height adjustable handles to hold to
- Easy to step on, thanks to a low height profile step
- Four wheels allow easy placement in front of the vertical stand and storage
- Metal fasteners on the floor to place the wheels in and lockable wheels, for precise, stable and secure placement in front of the vertical stand

Specifications

- Height: 199 cm (78.3")
- Width: 111 cm (43.7")
- Length: 88.1 cm (34.7")
- Weight: 70 kg (154 lbs)
- Maximum patient weight: 225 kg (496 lbs)

Comprising

- Patient support for stitching
- Label for color blind user

Compatible with

- DigitalDiagnost vertical stands VE, VT, VS and VM
- DigitalDiagnost release 1.3.1 and above
- DigitalDiagnost C50
- Image Stitching license is required to stitch the individual images together
- Ceiling suspension with long transverse rails is recommended to easily reach the necessary source-image distance of at least 3 m (118")

5   **Grid Portrait SkyPlate Large**   **1**

Attachable, fixed grid in portrait orientation for SkyPlate large 35 x 43 cm (14 x 17").

Main benefits at a glance

- Easy to attach/detach to/from the SkyPlate, thanks to its click-on mechanism
- Convenient handle for safe and easy handling
- For examinations where the detector is used in portrait orientation
- Can be used with source-image distance from 96 to 203 cm (38 to 80 inch)

Line #	Description	Qty			

- Fiber interspaces and carbon fiber cover plates ensure higher contrast and lower required dose than conventional aluminium interspaces grids
- Combined with Philips advanced UNIQUE image processing and grid-line correction algorithm, it provides optimal image quality for increased diagnostic confidence

Specifications

- Fixed grid 44/8/130: 44 lines/cm (112 lines/inch), ratio 8, focus 130 cm (51 inch), for source-image distance from 96 to 203 cm (38 to 80 inch)
- Fiber interspaces and carbon fiber cover plates
- Interspaces in portrait orientation
- Dimensions: 46.8 x 47.6 x 2.5 cm (18.4 x 18.8 x 1 inch), including handle
- Weight: 1.9 kg (4.2 lbs)

Comprising

- Attachable, fixed grid

Compatible with

- SkyPlate large 35 x 43 cm (14 x 17")

6   **Grid Landscape SkyPlate Large**   **1**

Attachable, fixed grid in landscape orientation for SkyPlate large 43 x 35 cm (17 x 14").

Main benefits at a glance

- Easy to attach/detach to/from the SkyPlate, thanks to its click-on mechanism
- Convenient handle for safe and easy handling
- For examinations where SkyPlate is used in landscape orientation
- Can be used with source-image distance from 100 to 185 cm (39 to 73 inch)
- Fiber interspaces and carbon fiber cover plates ensure higher contrast and lower required dose than conventional aluminium interspaces grids
- Combined with Philips advanced UNIQUE image processing and grid-line correction algorithm, it provides optimal image quality for increased diagnostic confidence

Specifications

- Fixed grid 40/8/130: 40 lines/cm (100 lines/inch), ratio 8, focus 130 cm (51 inch), for source-image distance from 100 to 185 cm (39 to 73 inch)
- Fiber interspaces and carbon fiber cover plates
- Interspaces in landscape orientation
- Dimensions: 46.8 x 47.6 x 2.5 cm (18.4 x 18.8 x 1 inch), including handle
- Weight: 1.9 kg (4.2 lbs)

Line #	Description	Qty			

Comprising

- Attachable, fixed grid

Compatible with

- SkyPlate large 35 x 43 cm (14 x 17")

7 **Detector package for flexible**   **1**
     bed examinations

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.
<u>Main benefits at a glance:</u>

- Slim design for easy positioning at the patient bed, bucky table or trolley
  - 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
- 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
- Also compatible with 35 x 43 cm (14 x 17") CR cassettes

<u>Specifications:</u>

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

<u>Comprising:</u>
- Detector Holder Patient Bed.

<u>Compatible with:</u>
- 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")

The wireless detector mobile holder is designed to take full advantage of the wireless portable detector to perform free exposures in optimal conditions.
<u>Main benefits at a glance:</u>

- Mounted on wheels

  - Easy positioning in the room and all around the patient
  - The positioning is achieved quickly and easily, thanks to the very intuitive use and self-locking joins
  - Brakes on the wheels for fixed and safe positioning

Line #	Description	Qty			

- Holds the wireless portable detector in a safe and precise position.
  - The mobile holder provides outstanding positioning flexibility for the wireless portable detector
  - Very easy to put the detector in and to take it out
  - With or without a grid on it, the wireless portable detector can be held in various positions depending on projection requirements
  - Featuring a height adjustable arm with swivel, the detector is safely held and can be lifted, tilted, swiveled or rotated to the best convenience.
- Also compatible with 35 x 43 cm (14 x 17") CR cassettes

Specifications:
- Dimensions: length 68 cm (26.8"), width 67 cm (26.4"), height 150.7 cm (59.3").
- Vertical movement range of holder arm: 68 to 128 cm (26.8 to 50.4"), center of large portable detector.
- Weight: 53.2 kg (117 lbs).

Comprising:
- Mobile detector holder.

Compatible with:
- Wireless portable detector 35 x 43 cm (14 x 17") and CR cassettes 35 x 43 cm (14 x 17")

The SkyPlate protector has been designed to be placed over the SkyPlate detector on the floor when performing an anterior-posterior view during a weight bearing feet examination, allowing to exam patients up to 220 kg (485 lbs).

Main benefits at a glance:
- Allows performing weight bearing feet examinations with patients up to 220 kg (485 lbs)
- Easy positioning over the wireless portable detector on the floor
  - Convenient handle for positioning and carrying, slim and stable design for secure patient examination
- Also compatible with 35 x 43 cm (14 x 17") CR cassettes

Specifications:

- Attenuation equivalent: less than 1.1 mm (0.04")
- Al: 100 kV
- maximum patient weight: 226 kg (500 lbs)
- Dimensions: 51 x 43 x 5 cm (20.1 x 19.9 x 2 inch)
- Weight: 2.9 kg (6.4 lbs)

Comprising:
- SkyPlate protector

Compatible with:
- SkyPlate large 35 x 43 cm (14 x 17") and CR cassettes 35 x 43 cm (14 x 17")

OPTIONS

Line #	Description	Qty		
8	**Detector and Grid Storage**	**1**		

The wall mounted holder is designed to either safely park the grids of a wireless
portable detector (WPD) or SkyPlates in both sizes (large and small) when not used.
SkyPlates can be placed with or without grids or with handle.
With its robust, painted metal design, it is made to be fixed on the wall in the radiography room for
convenient, safe and quick grids handling.

Specifications

- Holds 2 wireless portable detector grids or
- Holds 2 SkyPlates (large or small) incl. grids or handle.
- Dimensions (approximately): depth 15 cm (5.9"), width 60 cm
  (23.6"), height 25 cm (9.8")
  Weight (approximately): 4.8 kg (10.3 lbs)

Comprising

- Holder and wall mounting accessories