PHILIPS

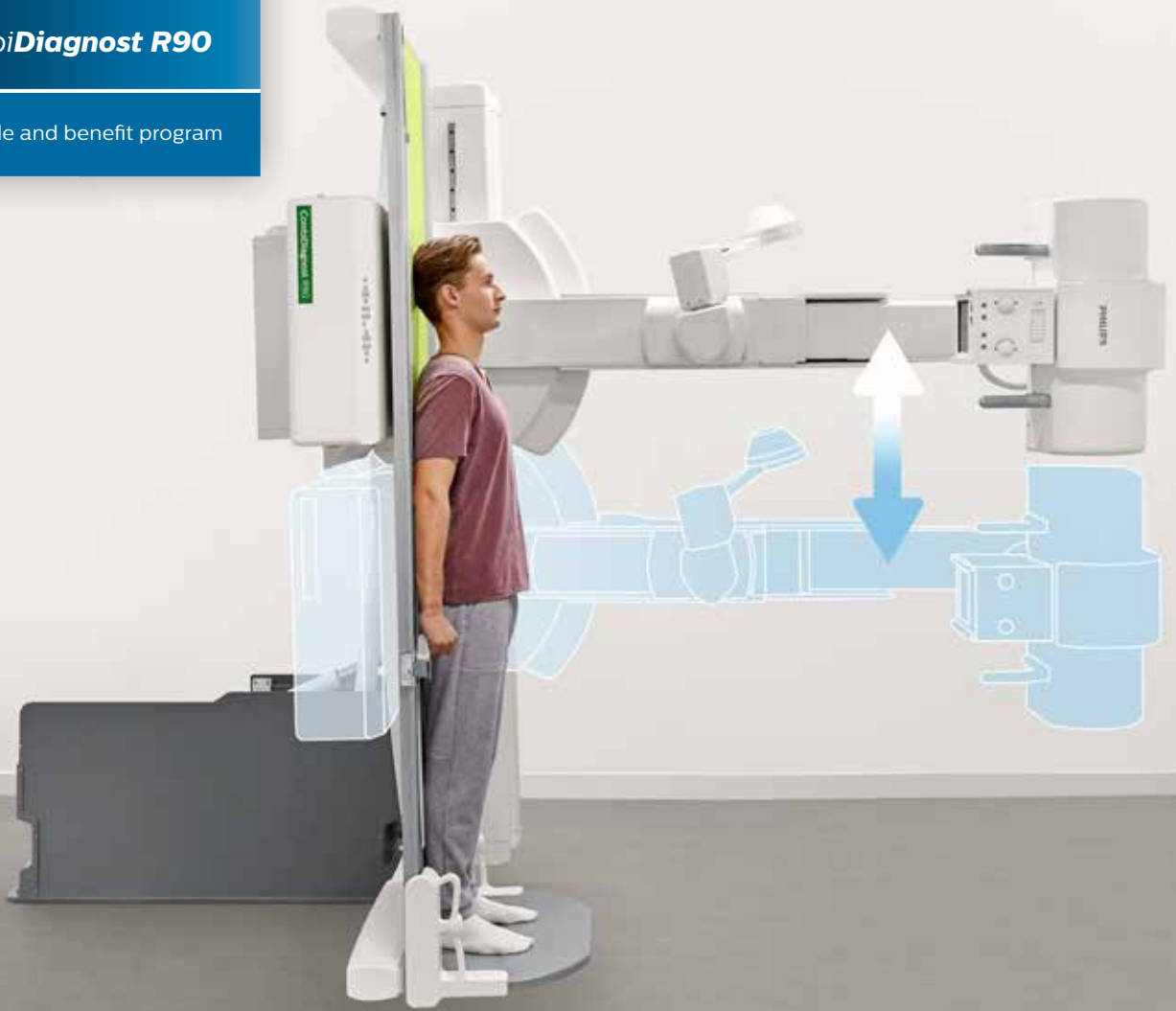*Combi**Diagnost** R90*

Upgrade and benefit program

Philips Diagnostic X-ray upgrade and benefit program

CombiDiagnost R90

The sustainability upgrade[1]

Philips Diagnostic X-ray is committed to help you provide the highest level of data security to your patients. The sustainability upgrade to Windows 10 offers state-of-the-art protection against vulnerabilities, protecting patient data as well as providing system security across departments, keeping the installed systems safe and secure. CombiDiagnost Rel. 1.0 systems can benefit from sustainability upgrade that includes Windows 10 operating system, the next generation of image processing for radiography images and several new Eleva features to ease your workflow and improve serviceability of your systems.

Highlights of the package

Improved security

Windows 10 operating system
- Windows 10 1607 LTSB enterprise edition
- Security patches support from Microsoft
- Secure and safe system
- Improved patient data security

Excellent images

UNIQUE 2 image processing for Radiography images
- Reduced noise and artifacts
- Latest generation of image processing
- Consistent image impression
- Harmonized contrast
- Enhanced details

Easier workflow

Latest Eleva Software
- Harddisk drive encryption
- Centralized users management
- Remote software distribution & installation
- Target and Deviation Index
- Predefined annotations for RF images

Work without worries

Smart geo lock
- Locks table side operation
- Safe workflow especially during DSA examinations
- All nearby fluoroscopy work without worries

Evolve your CombiDiagnost R90 Release 1.0 to CombiDiagnost R90 Release 1.1 with the sustainability upgrade

Benefit	Product Features	CombiDiagnost R90 R.1.0	CombiDiagnost R90 R.1.1
Advanced Applications	Bone Suppression	X	Optional for vertical stand
	DSA	X	Optional
	Automatic image stitching	Optional for vertical stand	Optional for table and vertical stand
Operating System	Windows and Eleva	Windows 7 and older version of Eleva	Windows 10 and latest Eleva with IT security improvements
Dose Control	Exposure Target index for radiography images	X	✓
Image Quality	Image Processing for radiography images	UNIQUE	UNIQUE 2 (Reduced noise, harmonized contrast, enhanced details)
Workflow Enhancement	Smart geo lock	X	✓
	Reference monitor in exam room	X	Optional, including remote control for image navigation

[1] Regulatory approval currently only granted for CE-related regions. Other countries pending.

The pediatric package

The pediatric package is designed to give you an optimized pediatric functionality during Radiography procedures on your new or already installed CombiDiagnost R90. It allows you to better control pediatric dose and improve your processes when examining children. To reduce stress and to help children feel less intimidated, Philips recommends adding the optional Ambient Experience to the package.

Highlights of the package

Gridless imaging

SkyFlow Plus
- Gridless worklow for free exposures in rad imaging
- Improves image contrast
- Allows for fewer retakes caused by grid misalignment
- Supports X-ray dose management
- Is fully automatic, patient adaptive, and works without special attention

Easy pediatric workflow

Small SkyPlate detector
- Detector size 24 cm x 30 cm (approx. 10" x 12")
- Lightweight detector for convenient pediatric imaging
- CsI detector allowing excellent DR images

Smart dose control

Clinical QC
- Easy and convenient monitoring of departmental quality standards
- Dose documentation per image and examination
- Reject analysis

Increase your patient experience with **Ambient Experience**
Create an engaging, multi-sensorial imaging environment that promotes a sense of well-being

A room equipped with Philips Ambient Experience can increase patient satisfaction by up to 45% [2]

[2] Compared to a room not equipped with Philips Ambient Experience. Result based on case study "Patient-friendly environment, Philips Ambient Experience puts X-ray examinations in a completely new light, 4522 962 86928 * Oct 2012

The orthopedic package

The orthopedic package is designed to give you full orthopedic functionality on your CombiDiagnost R90. It allows you to do full spine and full leg imaging either on the vertical stand equipped with the patient support or simply at the table for lying or standing patients. Systems which are already configured with automatic image stitching at the vertical stand can now enhance room flexibility by adding the automatic image stitching software also for images acquired at the CombiDiagnost R90 table.
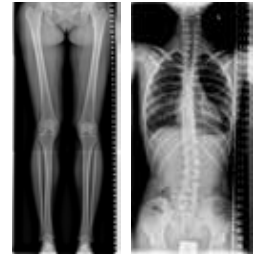
Highlights of the package

Patient comfort

Flexible workflow

Fully automatic

Upgrades for High Performance Room
· Automatic Image Stitching on the table in upright and lying position with body coverage of up to 150 cm (59")
· Lead Ruler for stitching on the table
· Pair of handles
· Automatic image stitching on the vertical stand
· Removable grid 40/8/180
· Patient Support for stitching
· Lead Ruler for stitching on the vertical stand
· Adjustable Straps for Patient Support
· Orthopedic measurement tools

Upgrades for Classic Room
· Automatic Image Stitching on the table in upright and lying position
· Large body coverage of up to 150 cm (59")
· Lead Ruler for stitching on the table
· Pair of handles
· Orthopedic measurement tools

The sustainability upgrade is needed as baseline for DSA and the orthopedic package.
If stitching shall be performed at the vertical stand, the ceiling suspended tube must already be configured with Comfort Move room motorization.

The Digital Subtraction Angiography package

With Philips Digital Subtraction Angiography (DSA), blood vessels can be visualized at UNIQUE image quality. Automatic examination pre-sets support a smooth and efficient workflow in angiography examinations. To extend flexibility and safety during DSA examinations the CombiDiagnost R90 table is enhanced with the smart geo lock for nearby work without worries.

Highlights of the package

Diagnostic confidence

Intuitive DSA features
- Roadmapping: Live subtraction under fluoroscopy
- Live subtraction under spot image acquisition
- Stenosis measurement: Specific vascular measurement
- Pixel shift including split screen pixel shift: Repositioning of mask image with sub-pixel increments
- Trace & subtract function
- Remasking: Manual selection of mask images
- Landmarking: Adjustment of the mask image to control the visible background anatomy

All information at one glance

Full control at the patient's side
- Reference monitor in the examination room to be mounted either on a ceiling suspension or trolley
- Reference image software license
- Remote control for image navigation

The sustainability upgrade is needed as baseline for DSA and the orthopedic package.
To perform DSA a nearby control trolley is needed.

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