



**PHILIPS**

NeuroScience

MR software

# Conduct your NeuroScience studies with confidence

## Philips NeuroScience package for 1.5T & 3.0T MR systems

### Key benefits

- High-end diffusion imaging (up to 128 directions, up to 32 b-values, multi-shell and user-defined directions)
- For BOLD fMRI: Enhanced ghost stability and extended data storage, quality assurance tool integrated on your scanner, B0 mapping
- Export tools allowing off-line postprocessing with third party software

Our NeuroScience package supports both clinical and neuroscience imaging activities through advanced functionality that is fully integrated into your MR system's user interface. It supports high definition brain fiber tracking - including crossing fibers - as well as diffusion-weighted multi-shell acquisitions with multiple b-values and up to 128 diffusion directions. To make diffusion imaging efficient for your specific demands, you can define your own matrix of diffusion directions for each b-value.

### fMRI capabilities

This package extends data storage to hold up to 64k images, accommodating long fMRI sessions. Advanced software enhances Nyquist ghost stability and makes it possible to obtain B0 maps for off-line data correction. The MR console user interface includes a quality assurance tool that follows fBRIN standards, enabling monitoring of consistency in longitudinal fMRI studies. In addition, integrated and easy to use export tools in different formats (including NifTI) allow off-line processing using your favorite investigation tools.

### A comprehensive package

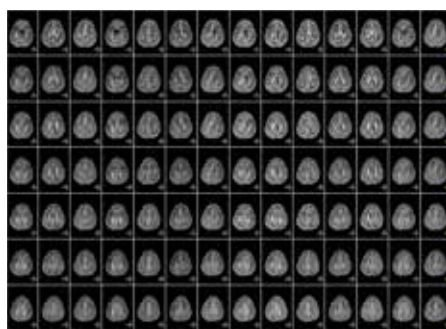
By leveraging our balanced gradients and dS SENSE parallel imaging, this package delivers excellent image quality and stability in neurofunctional imaging, even for challenging image protocols such as high b-value diffusion or long fMRI studies. It can be used with our dS Head 32 element\* digital head coil, which has been designed for neuroscience and neurofunctional studies. Our broad neuroscience offerings also include real-time BOLD fMRI\* assessment tools on the console, SensaVue\* paradigm generation workstations, and dedicated post-processing through IntelliSpace Portal\*.

\*dS-Head 32element, fMRI BOLD, Intellispace Portal, and SensaVue workstations are optional items. A separate purchase is necessary.

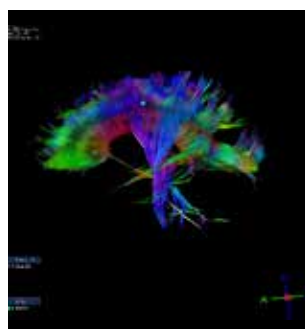
# NeuroScience package

Imaging	NeuroScience package
Diffusion	Up to 128 directions Up to 32 b-values Total of 2048 diffusion volumes Data storage 64k images Flexible sampling schemes: including multi-shell and user-defined directions per b-value Export in DICOM and XML-REC format Export of the diffusion direction matrix in MPS coordinates
BOLD fMRI	Data storage 64k images B0 mapping Enhanced ghost stability Quality Assurance tool Export in NIFTI
Field strength	1.5T and 3.0T
System type	Achieva, Ingenia, and Ingenia CX

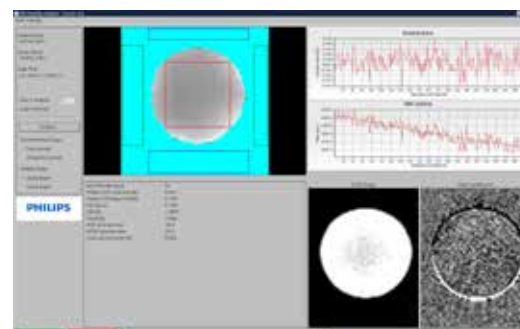
Philips comprehensive NeuroScience solution extends your system capabilities from clinical practice to clinical science.



Ingenia 3.0T CX diffusion-weighted images at 128 different diffusion directions



White matter fibers passing through the corpus callosum and the spinal tract, as extracted from 128 direction diffusion-weighted images



The Quality Assurance user interface tool delivers consistency

## Contact Philips for a trial key<sup>(1)</sup>

<sup>(1)</sup> Only for systems with release 5 onwards

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