

A woman with dark hair is shown in profile, looking intently at a computer monitor. The monitor displays a grayscale MRI scan of a human head. The background is slightly blurred, showing what appears to be a control panel or another part of the MRI machine. The overall lighting is soft and focused on the woman's face and the screen.

PHILIPS

NeuroScience extension

MR Clinical application

Extend your **diffusion MRI studies**

NeuroScience extension is an add-on to the comprehensive NeuroScience option. The extension brings your multi-shell DTI studies to a higher level. Advanced diffusion gradient control gives the scientific user control of the diffusion encoding gradient duration through selection of multiple diffusion encoding gradient waveforms. Furthermore, 2k DTI provides advanced control over diffusion gradients with up to 2048 independent diffusion encodings (vectors), each with up to 1024 different weightings and 1024 different directions.

NeuroScience extension

Field strength	1.5T and 3.0T Ingenia MR systems, excluding Ingenia Prodiva ¹
Prerequisite	NeuroScience SW option
Main applications	Brain
Sequence	Diffusion Tensor Imaging (DTI)
Image contrast	Diffusion Weighted Imaging (DWI)
Image quality	Enables higher resolution DTI

¹ Ingenia Prodiva 1.5T is not for sale in the USA



Diffusion Tensor imaging
b-values: 1000, 2000, 3000
Resolution: 1.7 x 1.7 x 1.7 mm
Scan time: 11:04 min



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4522 991 40111 * MAR 2019



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