



PHILIPS

MultiBand SENSE

MR Clinical application

High speed, high resolution fMRI and DTI studies

By simultaneously exciting multiple slices, MultiBand SENSE allows you to use state-of-the-art acceleration techniques in functional brain scans to either shorten MRI scan time or enhance diagnostic information. It doubles your capabilities for fMRI. Due to a shorter minimum TR for fMRI, MultiBand SENSE can be used to deliver twice the temporal resolution with virtually no compromise in SNR, or to obtain twice as much anatomical coverage at similar scan times with virtually equal image quality.¹ In your DWI/DTI brain sequences, MultiBand SENSE enables up to 45% acceleration or twice as many diffusion vectors to be acquired with virtually equal image quality.¹ With MultiBand SENSE you can perform fMRI and DTI sequences at high speed and high resolution.²

¹ Compared to Philips DTI/fMRI scans without MultiBand SENSE.

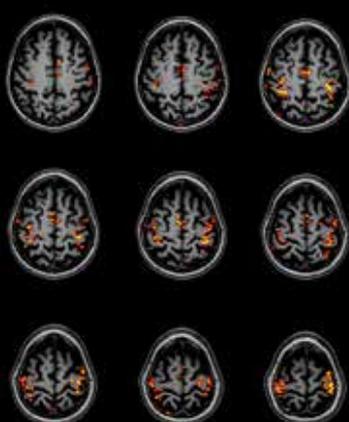
² Up to a MultiBand SENSE factor of 2.

MultiBand SENSE

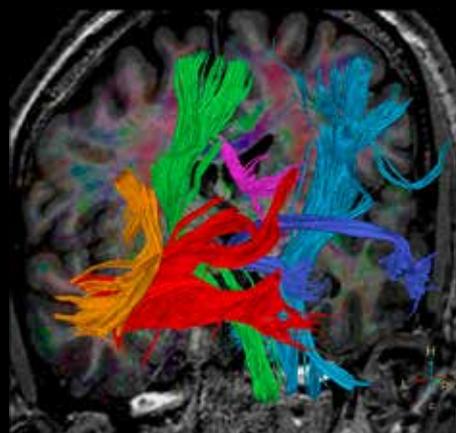
Field strength	1.5T and 3.0T MR systems, excluding Ingenia Prodiva ³ , Multiva ³ systems
Main applications	Brain
Sequence	fMRI and DTI
Speed	45% acceleration for DWI/DTI with virtually equal image quality. ¹ Acceleration factors of up to 8 for fMRI ⁴ Acceleration factors of up to 4 for diffusion MRI ⁴ Reduce scan time in your diffusion weighted protocols up to 73% ⁴
Image quality	Deliver twice the temporal resolution with virtually no compromise in SNR. ¹ Deliver twice as much anatomical coverage at similar scan times with virtually equal image quality. ¹ Twice as many diffusion vectors for DWI/DTI with virtually equal image quality. ¹

³ Ingenia Prodiva 1.5T and Multiva 1.5T are not for sale in the USA.

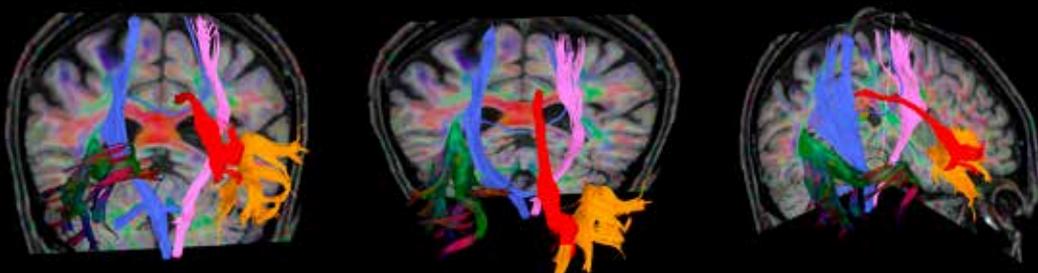
⁴ For 3.0T MR systems in combination with a 32ch head coil.



MultiBand SENSE – fMRI
Acceleration factor 8
Resolution: 2.0 x 2.0 x 2.0 mm
Scan time: 4:54 min
Ingenia 3.0T CX



MultiBand SENSE – DTI
Acceleration factor 4
Resolution 1.7 x 1.7 x 1.7 mm
Scan time: 3:25 min
Ingenia 3.0T CX



MultiBand SENSE – DTI
Acceleration factor 2
Resolution: 2.4 x 2.5 x 2.5 mm
Scan time: 3:37 min
Ingenia 1.5T

