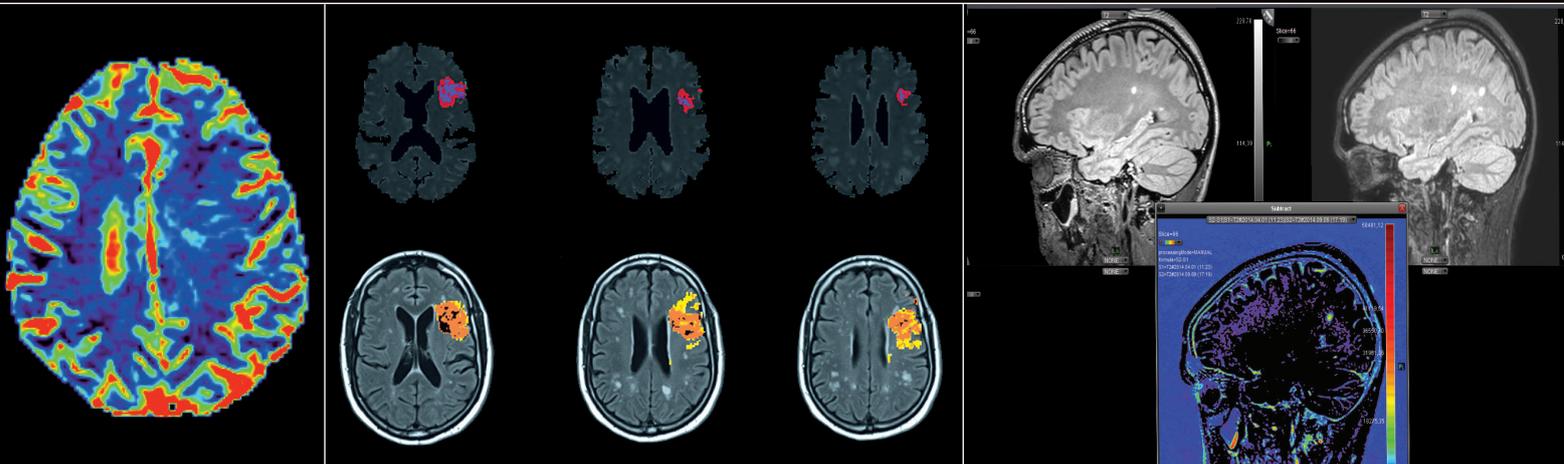




OLEA SPHERE

# NEURO PACKAGE



Our Neuro package is the complete solution you need to answer clinical queries in neuro-oncology and neuro-vascular imaging, from daily routine practice to in-depth analysis.

# INCLUDED CONTENT

## Diffusion: automatically computes diffusion maps

Automatic presets: motion correction | noise reduction | background segmentation

Automatic computed maps: ADC | Isotropic | Exponential

Customizable configuration: spatial smoothing

## DTI: automatically computes DTI maps

Automatic presets: motion correction | noise reduction | background segmentation

Fiber Tracking: track from ROI or seeds | exhaustive search

Automatic computed maps: Mean difusivity | Axial difusivity | Radial difusivity | FA | RA | VR

Tracts Customizable configuration: spatial smoothing

## Perfusion (DSC): automatically and accurately computes perfusion maps

Automatic presets: motion correction | AIF | VOF | baseline | noise reduction | skull & background segmentation

Automatic computed maps: CBF | rBVcorrected | K2 | MTT | TMAX | TTP | TMIP

Customizable configurations: deconvolution methods | bayesian computation | downsampling | relaxivity | spatial smoothing | hematocrit

## Permeability: automatically and accurately computes qualitative & quantitative permeability maps

Automatic presets: motion correction | AIF | baseline | noise reduction | background segmentation

Automatic qualitative computed maps: Washin | Washout | Peak | SER | AUC | TME | Peak enhancement | Curve washout

Automatic quantitative computed maps: Ktrans | Kep | VE | VP

Customizable configurations: DCE models | early signal index | downsampling | relaxivity | spatial smoothing | hematocrit

## ASL: automatically quantifies cerebral blood flow without contrast agent

Automatic presets: motion correction | quantification configurable based on sequence parameters | background segmentation | spatial smoothing

Automatic computed maps: ASL-perfusion-weighted | ASL-blood flow

Customizable models configurations: CASL | PCASL formula | PASL (Q2Tips-QUIPSS II) formula

## Analysis MR: quick assessment of full dataset

Visualization: 2D, 3D | fusion | MPR

Dedicated reports: Stroke

Assessment: ROI | VOI segmentation | measures

Communication: key images | screen captures | export to PACS | export to .csv file

## Longitudinal Analysis Mono: easily compares and tracks evolution

Automatic rigid 3D co-registration for different exams

Subtraction map across-time and sequences

Graphically compare volumes & values evolution

Compare view: visualize at the same time multiple exams across time

## Longitudinal Analysis Multi: easily compares and tracks evolution for same patient from different dates and modalities

Automatic rigid 3D co-registration for different exams

Graphically compare volumes & values evolution

Compare view: visualize at the same time multiple exams across time

# CLINICAL SPECIALTIES COVERED

Stroke	Brain Tumor	Multiple Sclerosis	Head & Neck	Spine
MR Acute Care CT Acute Care MR Stroke DWI MR Acute Care [Stroke]_Mono	Brain Tumor Streamlined Brain Tumor Expanded Brain Tumor DSC DCE expanded Brain Tumor DCE Brain Tumor Streamlined_DTI	MS One Study	Head & Neck expanded Head & Neck streamlined	DTI Spine

# REQUIREMENTS

## System & Software Requirements

<b>Operating System</b>	Windows Desktop (x64): 7 / 8.1 / 10 Windows Server (x64): 2008 / 2008 R2 / 2012 / 2012 R2 / 2016
<b>Software</b>	Microsoft Visual C++ 2012 Redistributable (x64) Microsoft Visual C++ 2015 Redistributable (x64) PDF Reader

## Stand-alone

<b>CPU</b>	Intel® Core / i7 / Xeon processor with 4 cores at 3.0+ GHz or 6 cores at 2.4+ GHz supporting SSE4.2 instructions
<b>Memory</b>	12 GB
<b>GPU</b>	Graphic card with at least the technical specs below: - Memory Type : GDDR5 - Core Clock Speed : 1500MHz - Memory Clock Speed : 8000MHz  Compatibles GPU Series: - Nvidia GeForce (Series Kepler, Maxwell, Pascal, Turing) - AMD ATI (Series Radeon Rx)
<b>Storage</b>	150 GB / SSD Drive
<b>Network</b>	1 Gb Ethernet port

## Server

<b>CPU</b>	Intel® Core i7 / Xeon processor with 4 cores at 3.0+ GHz or 6 cores at 2.4+ GHz supporting SSE4.2 instructions
<b>Memory</b>	12 GB
<b>Storage</b>	300+ GB / SSD Drive
<b>Network</b>	1 Gb Ethernet port

## Thick client

<b>CPU</b>	Intel® Core / i7 / Xeon processor with 4 cores at 3.0+ GHz or 6 cores at 2.4+ GHz supporting SSE4.2 instructions
<b>Memory</b>	32 GB
<b>GPU</b>	Graphic card with at least the technical specs below: - Memory Type : GDDR5 - Core Clock Speed : 1500MHz - Memory Clock Speed : 8000MHz  Compatibles GPU Series: - Nvidia GeForce (Series Kepler, Maxwell, Pascal, Turing) - AMD ATI (Series Radeon Rx)
<b>Storage</b>	5 GB
<b>Network</b>	1 Gb Ethernet port

Note: Olea Sphere® 3D rendering is not optimal with Nvidia Quadro Series.

## OLEA MEDICAL®

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Olea Sphere® v3.0, medical imaging post-processing software, is a medical device manufactured and marketed by Olea Medical®. This medical device is reserved for health professionals. This software program has been designed and manufactured according to the EN ISO 13485 Quality management system. Read the instructions in the notice carefully before any use. Instructions for Use are available on <http://www.olea-medical.com/en/>

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