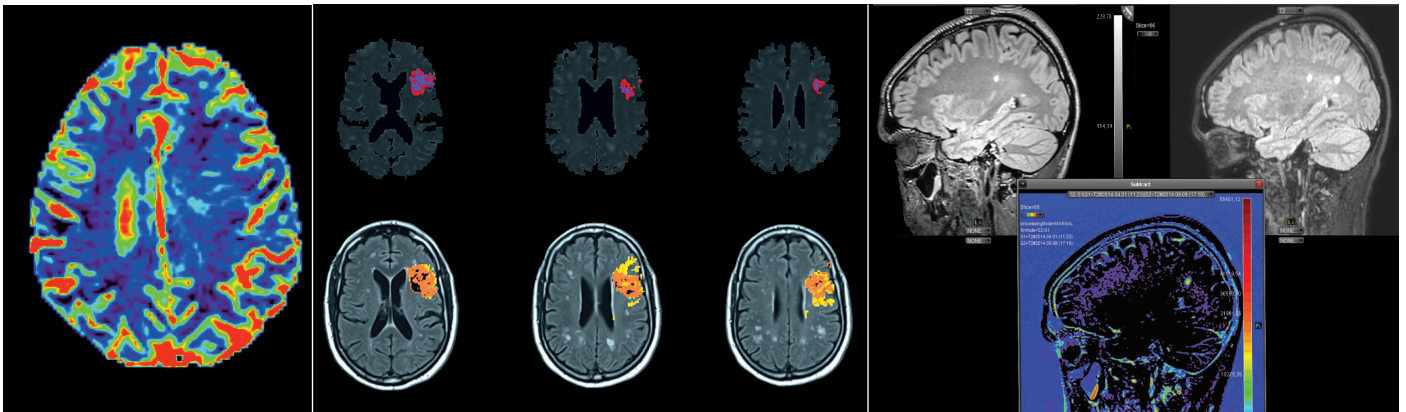


## Neuro package



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

# Requirements

## System & Software Requirements

|                         |  |
|-------------------------|--|
| <b>Operating System</b> | Windows Desktop (x64): 7 / 8.1 / 10<br>Windows Server (x64): 2008 / 2008 R2 / 2012 / 2012 R2 / 2016              |
| <b>Software</b>         | Microsoft Visual C++ 2012 Redistributable (x64)<br>Microsoft Visual C++ 2015 Redistributable (x64)<br>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:<br>- Memory Type : GDDR5<br>- Core Clock Speed : 1500MHz<br>- Memory Clock Speed : 8000MHz<br><br>Compatibles GPU Series :<br>- Nvidia GeForce (Series Maxwell, Pascal)<br>- 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:<br>- Memory Type : GDDR5<br>- Core Clock Speed : 1500MHz<br>- Memory Clock Speed : 8000MHz<br><br>Compatibles GPU Series :<br>- Nvidia GeForce (Series Maxwell, Pascal)<br>- 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.

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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/>

Manufacturer: Olea Medical SAS (France). Medical devices Class IIa / Notified body: CE 0459 GMED.

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