Invisible becomes visible

FL400 FLUORESCENCE IMAGING

Blue light fluorescence for ARveo and M530 microscopes

Invisible becomes visible
FL400 fluorescence with 5-ALA allows demarcation of tumor tissue from healthy brain tissue to support precise resection.

When resecting a malignant glioma, maximum removal of tumor cells with minimal impact to brain tissue is key to an optimal patient outcome. FL400 fluorescence in combination with the active substance 5-ALA helps you distinguish both the bulk and margins of the tumor more easily. With more visual information you can work more confidently.

If it glows red it’s tumor
Before surgery, the patient drinks a 5 aminolevulinic acid (5-ALA) solution. The 5-ALA is taken up by glioma cells and converted into the fluorescent PPIX. This is not normally visible to the human eye, but when illuminated under FL400 blue light, the PPIX in the tumor glows an intense red or pink, while healthy tissue appears blue.

Crisp, real-time delineation
The technology of the FL400 module delivers intense, homogenous excitation light and a well-adjusted observation spectrum. This is combined with the premium light and optics of the ARveo or M530 microscope in real time for bright, high-contrast delineation of tumor margins to support confident resectioning.

Flexible fluorescence observation
The OpenArchitecture design of ARveo and M530 microscopes ensures seamless integration of the FL400 module at any time. TriFluoro technology enables integration of three types of fluorescence in one microscope. Easily upgrade whenever your needs change or new technologies are introduced.
Easy handling for interruption-free surgery
Changing observation modes is easy. Switching from white light mode to blue light fluorescence mode and back requires just a click of a button on the handgrip or footswitch. View directly in the eyepieces and continue working without interruption.

Recording and display made simple
Share the view with your team in the OR via HD or 3D monitor and record in HD or 3D for later presentation and teaching. Start recording with the touch of a button. Mode Control technology automatically activates the correct video display and recording settings that have been optimized for fluorescence and white light modes.

In blue light mode, glioma tissue that has accumulated 5-ALA glows bright red or pink, while tissue that hasn’t appears blue aiding resection.
MICROSCOPE COMPATIBILITY

| New and existing | ARveo, M530 OH6, M530 OHX* |

*Not all configurations are available in all regions. Contact your local Leica representative for availability information.

TECHNICAL DATA: FL400 FILTER SET CHARACTERISTICS

<table>
<thead>
<tr>
<th>Fluorescence excitation</th>
<th>Peak of ~380 – ~430 nm +/- 5% (blue)</th>
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<tbody>
<tr>
<td>Fluorescence signal</td>
<td>≥ 444 nm</td>
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