

Image	Describes the actual image and its metadata.		
AcquiredDate	The acquisition date of the Image.		
Description	A multi-line description for the image.		
Name	A short description for the image. This would be used to, for example, select the image from a list.		
ImagingEnvironment	Describes the environment that the biological sample was in during the experiment.		
AirPressure	AirPressure in millibars[mbar].		
CO2Percent	%CO2 as a percent-fractions from 0.0 to 1.0 [%].		
Humidity	Humidity as a percent-fraction from 0.0 to 1.0 [%].		
Temperature	Temperature [degrees Celsius].		
ObjectiveSettings	Describes any settings on or around the objective		
CorrectionCollar	An adjustable ring on the objective that corrects for changes in immersion medium refractive imdex. Arbitrary scale and unitless.		
Medium	A description of a Medium used for the lens. e.g., Oil, Water, WaterDipping, Air, Multi, Glycerol, Other		
RefractiveIndex	Refractive index is that of the immersion medium.		
Pixels	Defines the location and paramater sof the Pixels, the actual binary image data		
DimensionOrder	The order in which the individual planes of data are interleaved. e.g., XYZCT, XYZTC, XYCTZ, XYCZT, XYTCZ, XYTZC		
PhysicalSizeX	} Physical size in x, y, z of a pixel in microns[um]		
PhysicalSizeY			
PhysicalSizeZ			
SizeC			
SizeT	} Dimensional size x, y, z, c, t of pixel data array		
SizeX			
SizeY			
SizeZ			
TimeIncrement	Used for time series that have a global timing specification instead of per-timepoint timing info, e.g., a video stream. [s].		
Type	The variable type used to represent each pixel in the image. e.g., int8, int16, int32, uint8, uint16, uint32, float, bit, double, complex, double-complex		
BinData	If the pixel data is stored diectrly in the XML it is enclosed in BinData Elements		
TiffData	If the pixel data is stored in an OME-TIFF file it is described by TiffData Elements		
FirstC	} The TiffData element describes how the TIFF IFD numbers are mapped to the Pixels.		
FirstT			
FirstZ			
IFD			
PlaneCount			
UUID	The TiffData UUID and Filename are used for multi-file datasets to maintain connections between the files		
FileName			
Channel			
AcquisitionMode	AcquisitionMode describes the type of microscopy performed. e.g., WideField, LaserScanningMicroscopy, LaserScanningConfocal, SpinningDiskConfocal, SlitScanConfocal, MultiPhotonMicroscopy, StructuredIllumination, SingleMoleculeImaging, TotalInternalReflection, FluorescenceLifetime, SpectrallImaging, FluorescenceCorrelationSpectroscopy, NearFieldScanningOpticalMicroscopy, SecondHarmonicGenerationImaging, Other		
Color	A color used render this channel		
ContrastMethod	The technique used to achieve contrast. e.g., Brightfield, Phase, DIC, HoffmanModulation, Obliquellumination, PolarizedLight, Darkfield, Fluorescence, Other		
EmissionWavelength	Emission wavelength of excitation for a particular channel, in nanometres [nm].		
ExcitationWavelength	Excitation wavelength of excitation for a particular channel, in nanometres [nm].		
Fluor	The name of the fluorophore used to produce this channel.		
IlluminationType	The method of illumination used to capture the channel. e.g., Transmitted, Epifluorescence, Oblique, NonLinear, Other		
Name	A short name for the channel, used to, for example, identify the channel from a list.		
NDFilter	Specifies the combined effect of any neutral density filters used. [% Transmittance]		
PinholeSize	Specifies adjustable pin hole diameters for confocal microscopes (microns [um]).		
PockelCellSetting	Amount the polarization of the beam introduced by Pockel Cell, if any.		
SamplesPerPixel	The number of samples the detector takes to form each pixel value.		
DetectorSettings			
Binning	Represents the number of pixels that are combined to form larger pixels. e.g., 1x1, 2x2, 4x4, 8x8, Other		
Gain	The Gain of the detector.		
Offset	The Offset of the detector.		
ReadOutRate	Detector read speed (MHz)		
Voltage	The Voltage of the detector. volts[V]		
LightSourceSettings			
Attenuation	The Attenuation of the light source. [%]		
Wavelength	The Wavelength of the light source. [nm]		
Plane			
DeltaT	Elapsed time since the beginning of the experiment [s]		
ExposureTime	Elapsed time during image recording. [s]		
PositionX	} The x, y, z position of the stage. [µm]		
PositionY			
PositionZ			
PositionZ			
StageLabel			
Name	Short name for this stage location This would be used to, for example, identify the channel from a list.		
X	} The labeled x, y, z position of the stage. [µm]		
Y			
Z			
Z			