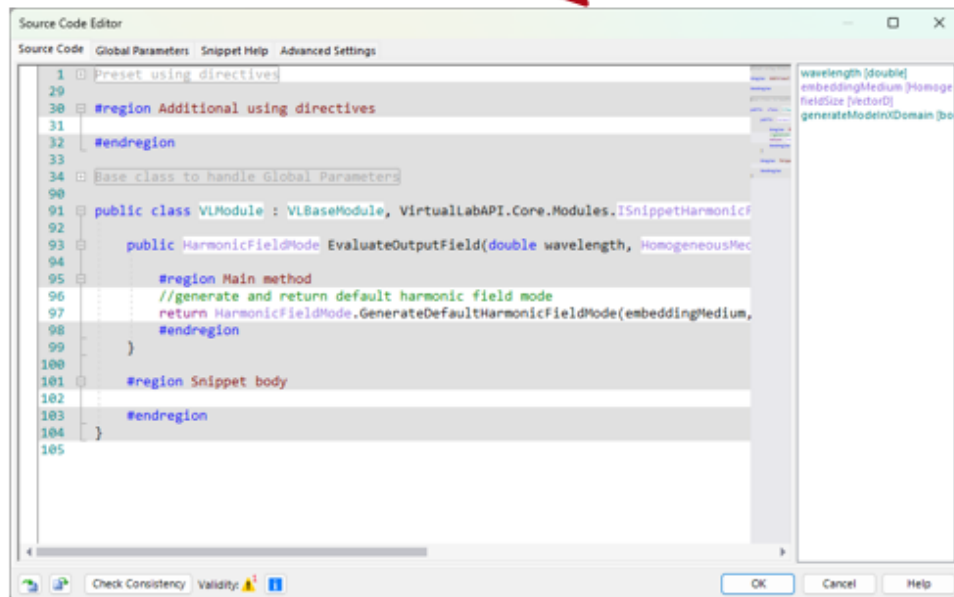
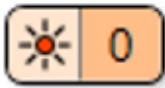


Plug-In Mode Generator

Abstract

PlugIn Mode Generator

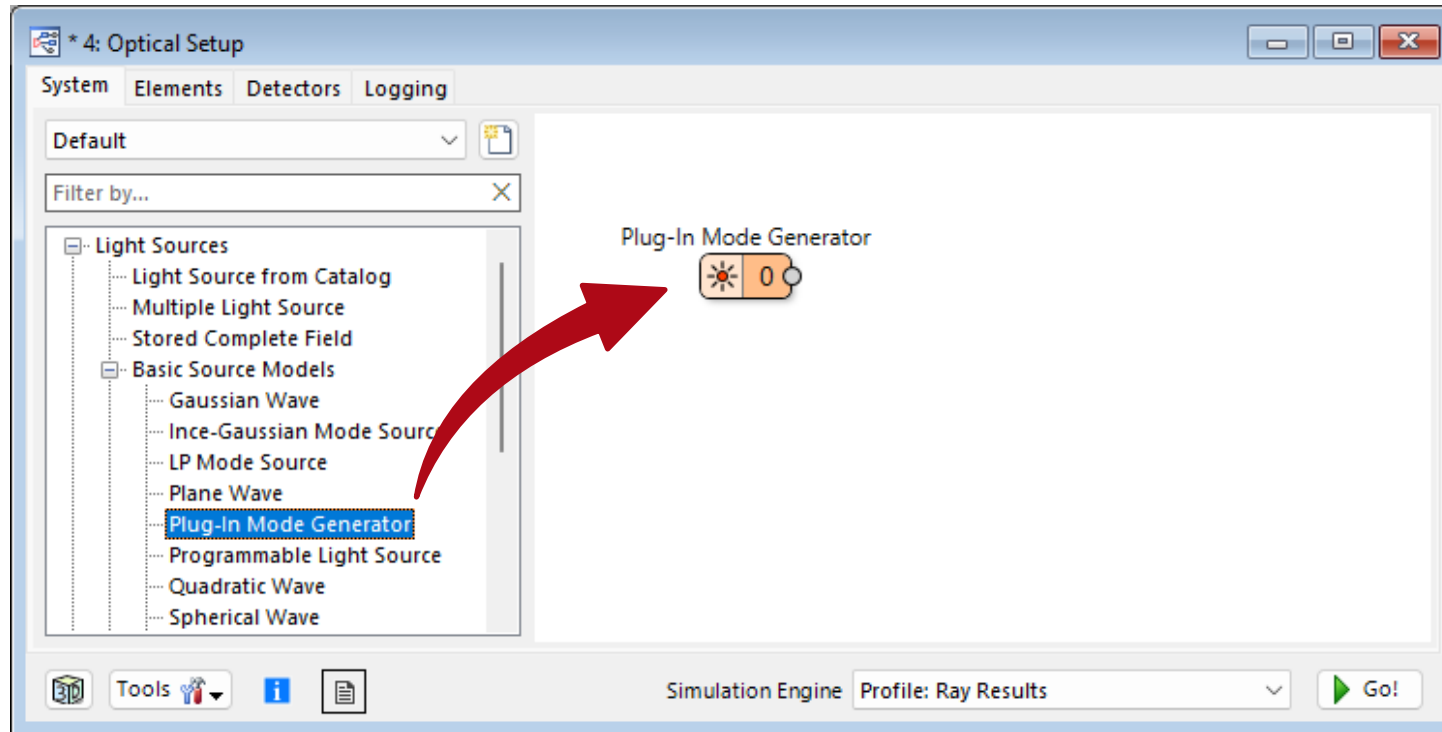


```
Source Code Editor
Source Code Global Parameters Snippet Help Advanced Settings

1  [ ] Preset using directives
29
30  [ ] #region Additional using directives
31
32  #endregion
33
34  [ ] Base class to handle Global Parameters
90
91  public class VModule : VLBaseModule, VirtualLabAPI.Core.Modules.ISnippetHarmonicFieldMode
92
93      public HarmonicFieldMode EvaluateOutputField(double wavelength, HomogeneousMedium medium)
94
95          #region Main method
96          //generate and return default harmonic field mode
97          return HarmonicFieldMode.GenerateDefaultHarmonicFieldMode(embeddingMedium, wavelength, medium);
98          #endregion
99
100      }
101
102      #region Snippet body
103
104      #endregion
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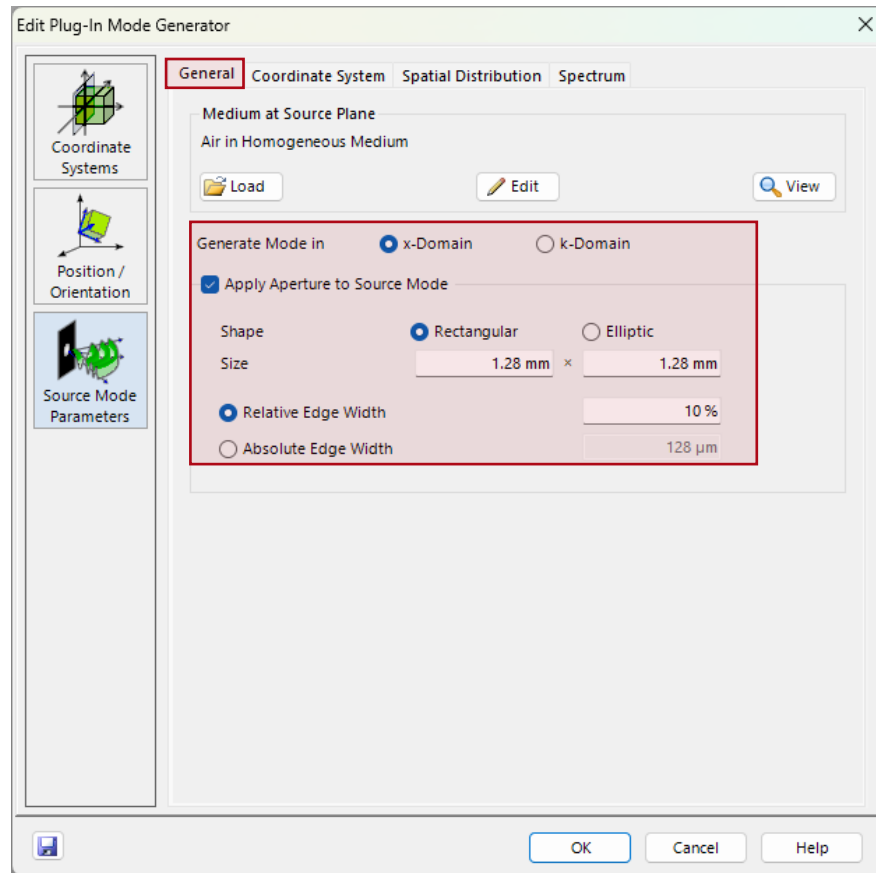
```

Where to Find the Component



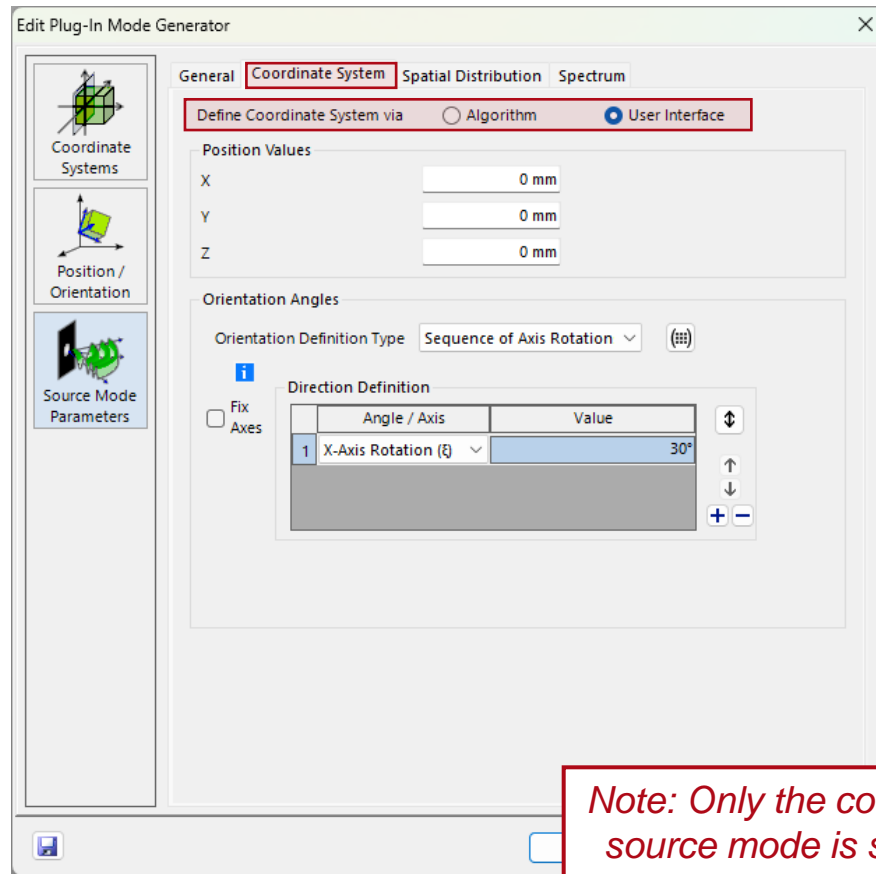
The *Plug-in Mode Generator* can be found under Light Sources/Basic Source Models/Plug-In Mode Generator in *the Optical Setup* document.

Domain and Aperture

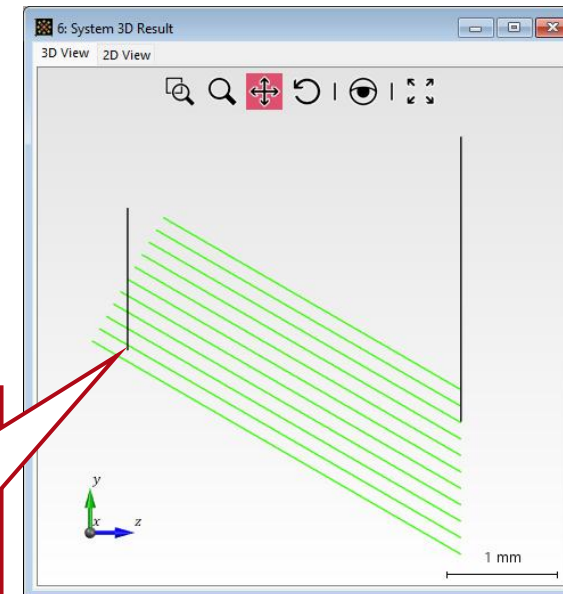


The Plug-in Mode Generator can be defined in x- and k-domain. The corresponding aperture will automatically adjust to the correct coordinate units.

Coordinate System

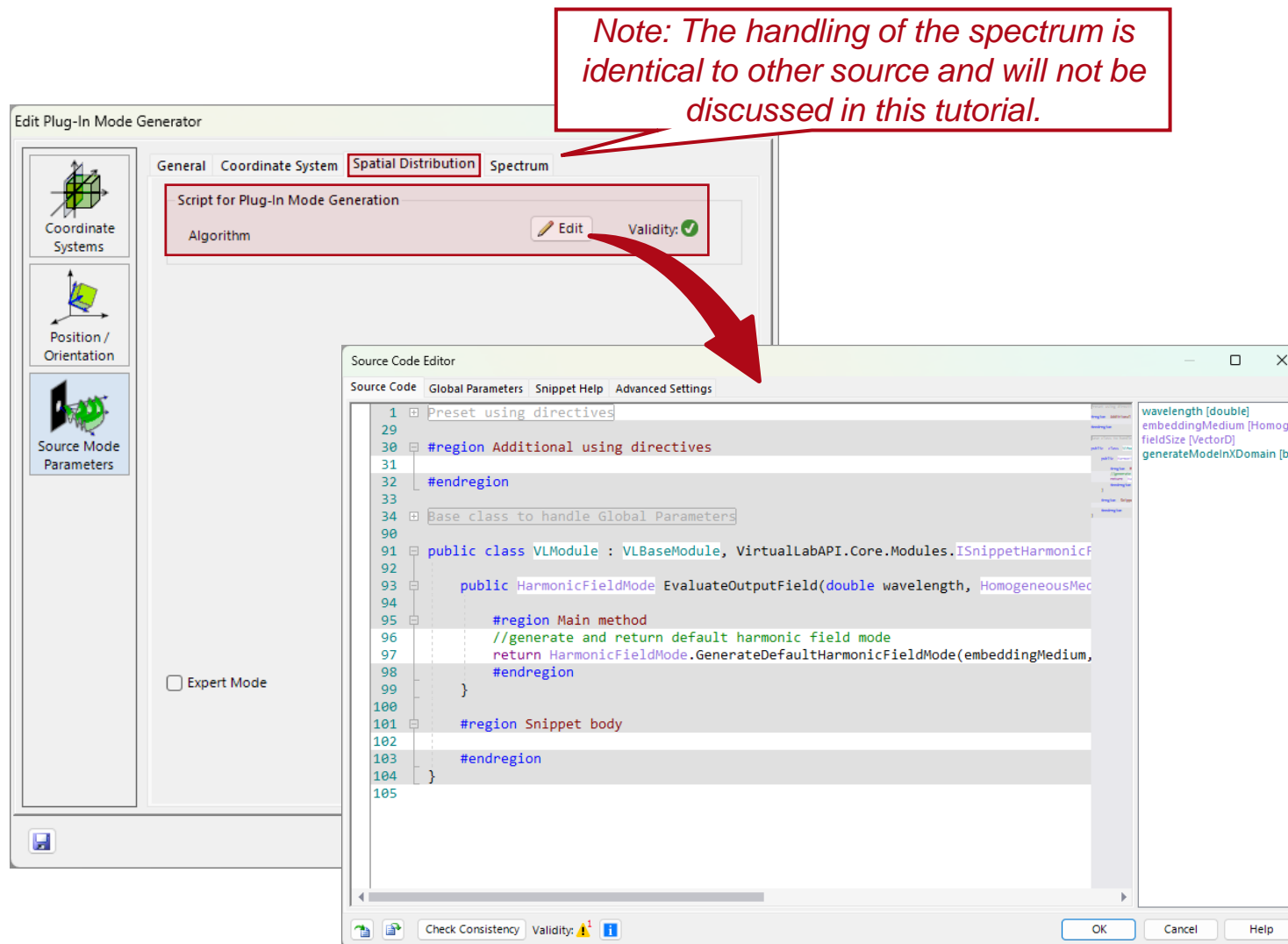


The coordinate system of the mode can be freely defined. Either you rotate and shift the source similar to a component or you can specify the coordinate system inside the programmable code. This also allows for the creation of tilted sources.



Note: Only the coordinate system of the source mode is shifted. The black bar indicated the coordinate system of the source, which is used to determine the following components..

Programming the Source



The *Spatial Distribution* tab (*Spectral Distribution* tab in case of a k-domain mode) allows access to the programmable snippet that defines the source.

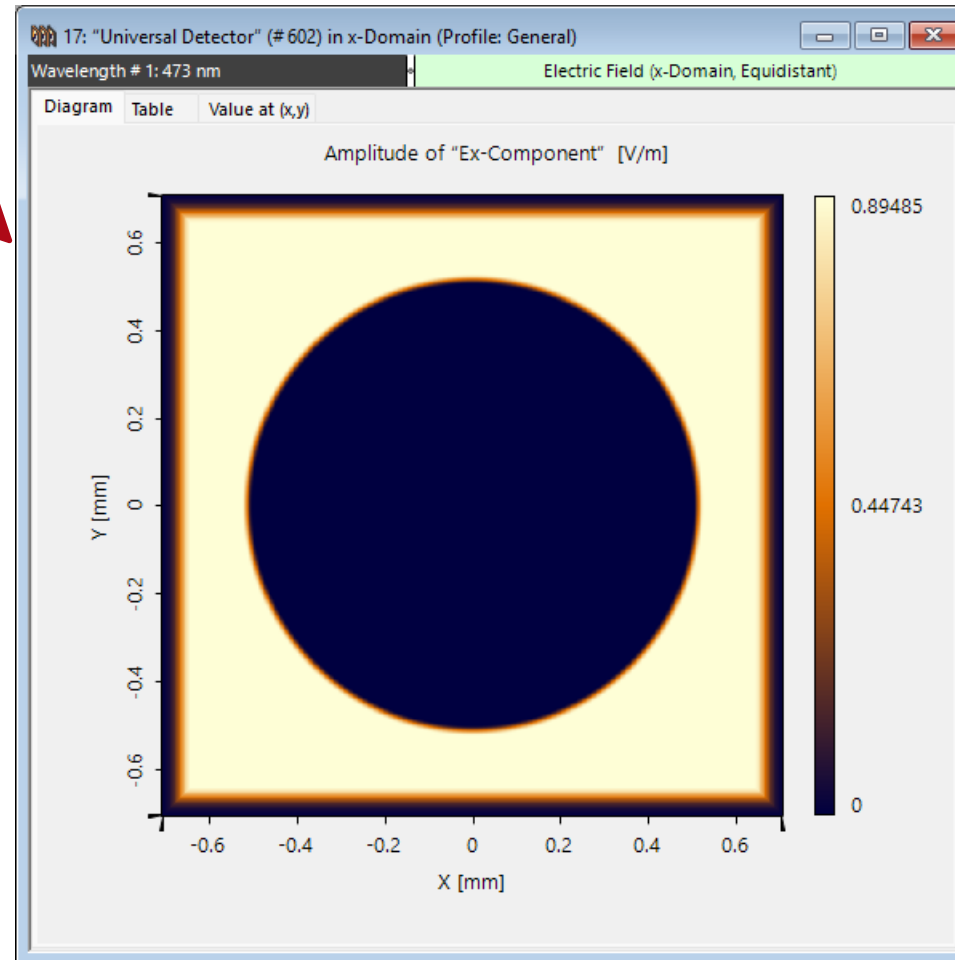
For an in-depth tutorial on how to operate with VirtualLab Fusion snippets please follow this link:

On the following pages we would like to discuss to examples.

Example: Plane Wave with Hole

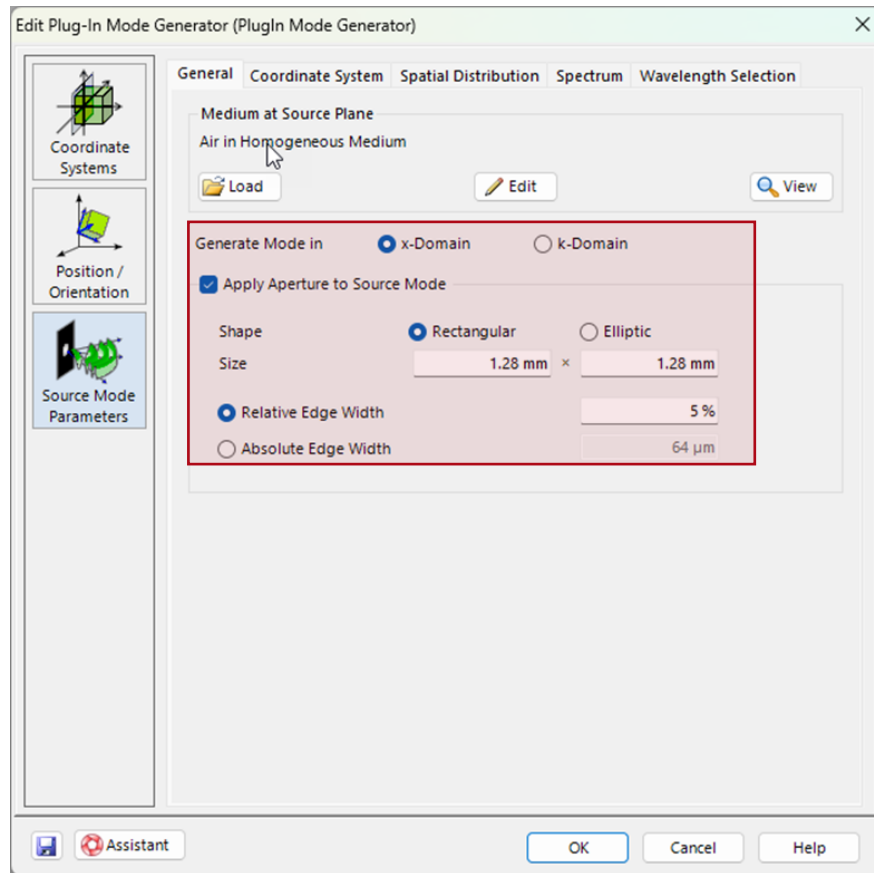
Example: Plane Wave with Hole

PlugIn Mode Generator



As an easy introduction to the technology, we want to program a rectangular plane wave with a circular hole in the middle of it.

Plane Wave with Hole - General Aperture Configuration



We define the source in x-domain. The outer shape is determined by the aperture which we set to rectangular.

Plane Wave with Hole - C# Script Mode Generation

```
#region Main method
```

```
HarmonicFieldMode hfm_test = HarmonicFieldMode.GenerateDefaultHarmonicFieldMode(embeddingMedium, wavelength, fieldSize, !generateModeInXDomain, 1001, 1001);
```

→ *Create default harmonic field mode.*

Plane Wave with Hole - C# Script Mode Generation

```
#region Main method
HarmonicFieldMode hfm_test = HarmonicFieldMode.GenerateDefaultHarmonicFieldMode(embeddingMedium, wavelength, fieldSize, !generateModeInXDomain, 1001, 1001);
//get Ex/Ey
ComplexField cfEx = hfm_test.GetEquidistantExData();
```

Create default harmonic field mode.

Extract data for Ex. We are only interested in this component.

Plane Wave with Hole - C# Script Mode Generation

```
#region Main method
HarmonicFieldMode hfm_test = HarmonicFieldMode.GenerateDefaultHarmonicFieldMode(embeddingMedium, wavelength, fieldSize, !generateModeInXDomain, 1001, 1001);

//get Ex/Ey
ComplexField cfEx = hfm_test.GetEquidistantExData();

//get number of points
Vector numberPoints = hfm_test.NumberOfSamplingPointsFieldData;

//loop over all points
for (int runY = 0; runY < numberPoints.Y; runY++) {
    for (int runX = 0; runX < numberPoints.X; runX++) {
```

Create default harmonic field mode.

Extract data for Ex. We are only interested in this component.

Define sampling.

Loop over all points.

Plane Wave with Hole - C# Script Mode Generation

```
#region Main method
HarmonicFieldMode hfm_test = HarmonicFieldMode.GenerateDefaultHarmonicFieldMode(embeddingMedium, wavelength, fieldSize, !generateModeInXDomain, 1001, 1001);

//get Ex/Ey
ComplexField cfEx = hfm_test.GetEquidistantExData();

//get number of points
Vector numberPoints = hfm_test.NumberOfSamplingPointsFieldData;

//loop over all points
for (int runY = 0; runY < numberPoints.Y; runY++) {
    for (int runX = 0; runX < numberPoints.X; runX++) {
        //get current position
        VectorD currPosPhysical = hfm_test.GetPhysicalCoordinateOfSamplingPointForFieldData(new Vector(runX, runY));
        //get aperture factor (cosine function)
        double apertureFunction = VirtualLabAPI.Core.BasicFunctions.ApertureFunctions.ApertureFactorCosine(currPosPhysical,
                                                                 new VectorD(0, 0),
                                                                 false,
                                                                 new VectorD(2 * ApertureRadius, 2 * ApertureRadius),
                                                                 ApertureRadius * RelativeEdge);

        cfEx[runX, runY] = 1 - apertureFunction;
    }
}
```

Create default harmonic field mode.

Extract data for Ex. We are only interested in this component.

Define sampling.

Loop over all points.

Negate aperture function to create a stop.

Aperture function will give 1 if inside region and 0 if outside (with a soft edge in between).

Plane Wave with Hole - C# Script Mode Generation

```
#region Main method
HarmonicFieldMode hfm_test = HarmonicFieldMode.GenerateDefaultHarmonicFieldMode(embeddingMedium, wavelength, fieldSize, !generateModeInXDomain, 1001, 1001);
//get Ex/Ey
ComplexField cfEx = hfm_test.GetEquidistantExData();
//get number of points
Vector numberPoints = hfm_test.NumberOfSamplingPointsFieldData;
//loop over all points
for (int runY = 0; runY < numberPoints.Y; runY++) {
    for (int runX = 0; runX < numberPoints.X; runX++) {
        //get current position
        VectorD currPosPhysical = hfm_test.GetPhysicalCoordinateOfSamplingPointForFieldData(new Vector(runX, runY));
        //get aperture factor (cosine function)
        double apertureFunction = VirtualLabAPI.Core.BasicFunctions.ApertureFunctions.ApertureFactorCosine(currPosPhysical,
            new VectorD(0, 0),
            false,
            new VectorD(2 * ApertureRadius, 2 * ApertureRadius),
            ApertureRadius * RelativeEdge);

        cfEx[runX, runY] = 1 - apertureFunction;
    }
}

hfm_test.SetEquidistantExData(cfEx);
```

Create default harmonic field mode.

Extract data for Ex. We are only interested in this component.

Define sampling.

Loop over all points.

Aperture function will give 1 if inside region and 0 if outside (with a soft edge in between).

Negate aperture function to create a stop.

Store data for Ex.

Plane Wave with Hole - C# Script Mode Generation

```
#region Main method
HarmonicFieldMode hfm_test = HarmonicFieldMode.GenerateDefaultHarmonicFieldMode(embeddingMedium, wavelength, fieldSize, !generateModeInXDomain, 1001, 1001);
//get Ex/Ey
ComplexField cfEx = hfm_test.GetEquidistantExData();
//get number of points
Vector numberPoints = hfm_test.NumberOfSamplingPointsFieldData;
//loop over all points
for (int runY = 0; runY < numberPoints.Y; runY++) {
    for (int runX = 0; runX < numberPoints.X; runX++) {
        //get current position
        VectorD currPosPhysical = hfm_test.GetPhysicalCoordinateOfSamplingPointForFieldData(new Vector(runX, runY));
        //get aperture factor (cosine function)
        double apertureFunction = VirtualLabAPI.Core.BasicFunctions.ApertureFunctions.ApertureFactorCosine(currPosPhysical,
        new VectorD(0, 0),
        false,
        new VectorD(2 * ApertureRadius, 2 * ApertureRadius),
        ApertureRadius * RelativeEdge);
        cfEx[runX, runY] = 1 - apertureFunction;
    }
}
hfm_test.SetEquidistantExData(cfEx);
//set coordinate system of hfm
hfm_test.CoordinateSystem.Origin.Coordinates = ModePosition;
return hfm_test;
#endregion
```

Create default harmonic field mode.

Extract data for Ex. We are only interested in this component.

Define sampling.

Loop over all points.

Aperture function will give 1 if inside region and 0 if outside (with a soft edge in between).

Negate aperture function to create a stop.

Store data for Ex.

Fix coordinate system.

Return generated harmonic field mode.

Document Information

Title	Plug-In Mode Generator
Document code	TUT.0460
Publication date	08.07.2025
Required packages	-
Software version	2025.1 (Build 1.172)*
Category	Use Case
Further reading	<ul style="list-style-type: none">- Plug-in Detector- Plug-in Component- Including Pulses into VirtualLab Fusion

* *The files attached to this document require the specific version or later.*