ANTENNA
SYSTEMS SOLUTIONS

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LET'S WORK ON YOUR EXCITING NEW PROJECT TOGETHER

ANTENNA SYSTEMS SOLUTIONS

Our headquarters is in Spain, ASYSOL has several global partners spread out across the world - EUROPE · ASIA · AMERICA · OCEANIA

What we do,
We do for YOU

ASYSOFT

WHERE INNOVATION IS STANDARD

COPORATE OFFICE
ASYSOL

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ASYSOFT

STABLE · MODULAR · FLEXIBLE

ASYSOFT enables the operator to interface with the measurement system hardware. It is a stable, modular platform allowing for full flexibility and optional customisation. The package will allow the measurement and display of all key antenna parameters in a friendly environment.

We are proud of our flagship software product and committed to on-going development and innovation for the benefit of the end user.

ACQUISITION MODULE

The acquisition module provides comprehensive control of the test setup equipment with the support of a friendly and intuitive Graphical User Interface. Data security is preserved by determining user access privileges and the ability of allowing multiple users to access measurement configurations and data files.

FEATURES

» Multiple languages supported

» Parameter definition (measurement description, RF settings, measurement type and probe type)

» Configuration of individual rotary and linear axes for a specific range layout

» Selection of scan and increment axes (parameters, scan direction, stepped or continuous mode)

» Configuration of different range layouts and connected instruments

» Storing configurations and custom settings

» Direct RF component set up (multipliers, harmonic mixers, etc.)

» Real-time monitoring of acquired data with the ability to pause and save partial data set acquisition

» Supports concatenated batch runs

» AUT configuration by means of external user defined commands

» Control of multi-port and reconfigurable antennas

» Supports Keysight, Rohde & Schwarz and Anritsu RF instrumentation
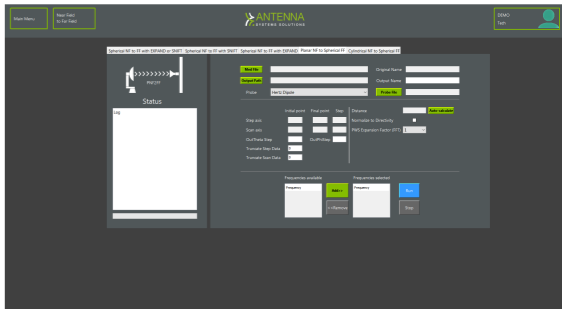

ANALYSIS & TRANSFORMATION MODULE

The analysis module forms an integral part of the ASYSOFT software package, allowing the user to analyze acquired data or perform various transformations. The module can be optionally installed on a different platform to allow for concurrent data acquisition and remote-based analysis. The optional Near to Far-Field transformation module (planar, cylindrical, or spherical) is integrated into the ASYSOFT software package in a modular way. It allows the use of external industry-standard routines (SNIFTD and ROSCOE from TICRA) to guarantee the user full traceability during the measurement process.

FEATURES

» Antenna pattern extraction

» Gain calculation by substitution, two-antenna and three-antenna methods

» Sidelobe, 3dB beam width, polarisation axial ratio and tilt angle

» File creation and probe calibration for all Near-Field geometries

» Sub-gridding correction for on-the-fly data acquisition

» Data manipulation (re-arrange axes, merge and split data)

» Pattern interpolation using either spherical-wave expansion or Fourier transform

» Arbitrary pattern rotation using Euler angles

» Far-Field pattern phase translation

» Data normalisation and comparison

» Calculation of co-polar and cross-polar linear and circular field components

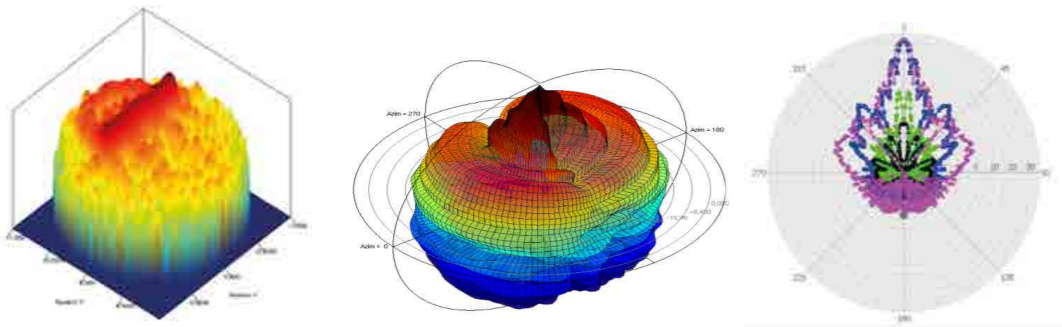» Data export in various field components and data formats: ASCII, CSV, DIATOOL and custom

MODULES

» General data analysis ASY-ALS

» Planar transformation ASY-PNF

» Cylindrical transformation ASY-CNF

» Spherical transformation ASY-SNF

VISUAL TOOL

The graphical representation module (a third party plug-in) is continually updated to match the increasing demands of the ASYSOFT software package throughout the lifecycle of the product and equips the end user with the very latest in data visualisation imagery. The module allows the user to graphically interpret acquired and transformed data.

FEATURES

» 2D and 3D plots for measured and transformed data

» Polar plots

» Zooming capability

» Overlay of user pre-defined masks

» Display of main antenna parameters

» Export to PNG, GIF, TIFF and JPG

» Simultaneous display of multiple data plots

ASYSOFT IS A STABLE, MODULAR PLATFORM, ALLOWING FOR FULL FLEXIBILITY & OPTIONAL CUSTOMISATION