

DASY5 – RELEASE NOTE

The demands of near-field evaluations have continuously grown over the past decade. From the initial need of demonstrating the compliance of mobile phones when operated at the ear, over time new services at higher frequencies, different operational configurations (e.g., body-mounted, behind the ear, etc.) as well as device-specific evaluations (e.g., hearing-aid compatibility, MRI safety, etc.) have been introduced. The new demands for versatility have prompted us to initiate the creation of the next generation of DASY systems: DASY5. The release date was further accelerated by the discontinuance of Stäubli's CS7MB robot controller. In January 2007, DASY5 v5.0 was released.

The concept of DASY5 fulfills the priorities of our customers: 1) Continuation of the very successful DASY4 system (same touch and feel for routine measurements), while simultaneously offering better efficiency and even increased accuracy; 2) Open architecture that unlocks unlimited possibilities for the experienced user. Three different system levels are available: **DASY5 SAR**, **DASY5 PRO** and **DASY5 NEO**, targeting different application ranges. Each system can be combined with different robot sizes defining the maximum scanning volume. The System levels are configured such that upgrades to a higher level and the addition of various extensions are possible at any time.

For more detailed information regarding **DASY5 SAR**, **PRO** and **NEO** please visit our web site <http://www.speag.com/en/measurement/dasy5/index.php>

Several software and hardware releases are scheduled within the next 12 months. Some of the immediate new applications and features of the DASY5 systems are summarized below:

- Custom selected modules enabling the most accurate, efficient and reliable 3D near-field measurements: from standard SAR testing to advanced dosimetric evaluations of implants, MRI safety evaluations and scanning of large objects such as automobile interiors, anti-theft devices; frequency range from DC to THz
- **SAR evaluations**: predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50383, etc.
- **HAC evaluations**: advanced hardware extensions allowing automated compliance testing according to the ANSI C63.19 standard and CTIA Test Plan, etc.
- **MPE and derived limit evaluations of E- and H-fields**: compliance testing following the protocols defined in IEEE C95.3, EN 50392, EN 50357, etc.
- Analysis of close near-fields to optimize radiation performance, EMC, EMI
- Large assortment of system components (probes, validation dipoles, phantoms, etc.) enabling compliance with standards and communication systems used worldwide
- Integration of 3rd party probes (for both analog and digital input)
- Control of devices such as communication testers, generators, etc.
- Enhanced GUI enabling direct comparison with results from SEMCAD X
- Custom-defined scanning procedures controlled by scripting language
- ISO 17025 calibration of the DASY5 system components

Upgrades from DASY3 and DASY4 systems are possible, involving complete replacement of the Stäubli robot arm/controller and associated DASY hardware components (except DAE, probes, dipoles, phantoms, etc.). DASY4 will be maintained until 2012; this includes software bugs, SPEAG hardware replacements, software and hardware updates to new standard requirements, provided the changes can be realized with reasonable efforts. However, please note the special scheduling of Stäubli with respect to maintenance of the discontinued robot versions (see www.staubli.com).