

## SOFTWARE RELEASE NOTE # 18

September 07, 2012

To: All RFXpert units

Re: Latest Software Release 3.4

**EMSCAN is pleased to provide all RFXpert customers with a free software upgrade.**

**This offer extends to all the RFXpert units acquired on or after August 31, 2010.**

**All units acquired prior to August 31, 2010 can obtain the software upgrade by purchasing a Customer Care Package (p/n 3000-0122). Please contact your local representative or contact us via our web site: <https://www.emscan.com/contact-us/>**

### ● New features

- Support for RFX2: The software can now run with either RFX or RFX2
- Very-near-field mask: This allows the user to remove portions of the measured near-field from the far-field calculations, filtering unwanted emissions from feed cable for example
- Customizable offset table: This table allows the user to adjust the radiated power and related measures on a per frequency basis for calibrating RFXpert results with chamber baseline data
- Automated report generator

### ● Improvements

- Increased separation for RFX2: The larger scanner can support measurement separation up to 115 mm (4.5 inches)
- Results now include Antenna Efficiency and Realized Gain: These are the measurements which do not take antenna mismatch into account
- Far-field patterns can now be displayed in terms of directivity, normalized, gain, or realized gain. This applies to linearly and circularly polarized patterns
- All polarized far-field patterns can now be displayed as phase values
- All 2D plots now have zoom functionality
- Near-field units can now be displayed in dBuA/m or A/m
- Efficiency can be displayed in % or in dB
- Advanced Mode settings can support infrequent pulse data: Maximum time between pulses is now 60 seconds

● **Fixes**

- Stability of the results frames has been improved
- There is a warning message when a scan is attempted with no signal present or if the signal is too low
- Copy function of the 3D graphs has been repaired
- Reversed display of far-field pattern has been repaired
- The data export function no longer deletes user files