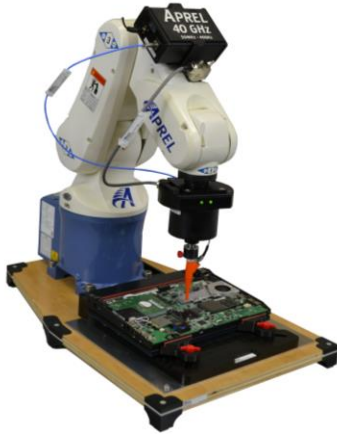




EM-ISight-4 20- 40GHz Upgrade Program



Technological advancements are achieved on a daily basis and many research and development teams need to have access to the latest tools. APREL have launched an Upgrade Program for existing EM-ISight owners that extends the frequency range up to 40GHz. This upgrade program has been developed for an easy transition from the standard 6GHz option to 20 or 40GHz.

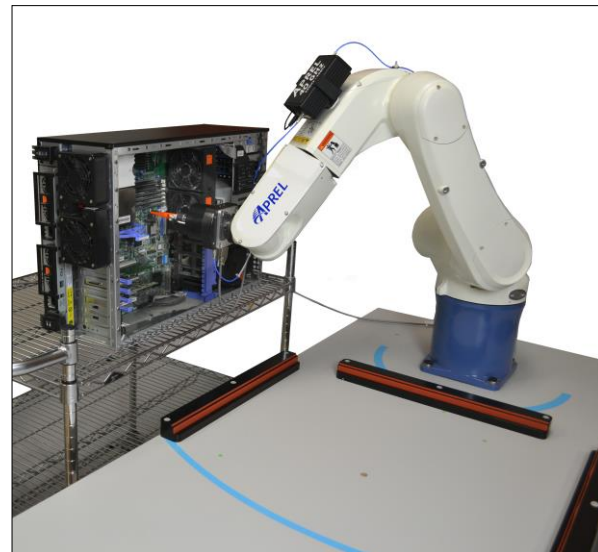
EM-ISight Upgrade Program eliminates potential for legacy due to technology advancements, changes in protocol, devices operating with higher clock speeds or use of a higher spectrum allocation primarily those relating to 3rd up to 10th harmonic or 40GHz. The upgrade is easy to install onto the user's existing EM-ISight. This will enable current users of EM-ISight to continue working with very little disruption to their normal activities with the ease of integration for the upgrade. The upgrade program is a cost effective way to grow the applications of EM-ISight while using our proprietary single probe solutions. No other system manufacturer offers a single probe solution up to 40GHz.

Applicable Standards

IEC-61967-1-6
VCCI/CISPR 22/FCC Pt 15/22 EN55022
CISPR 12/FCC Pt 18/EN55011/
EN60555/VDE0871
EN55024/EN6100-6-4/GR-1089-CORE
ITU-T/ETS300/
IEC-6100-3

Applications

Integrated Circuit/Printed Circuit Board
Wireless modules
De-Sense testing (receiver circuits)
Medical devices
Automotive and aviation
Electronic device emissions
Pre-Compliance testing (emissions/susceptibility)
Quality control/audit
Consumer products cell phone/computer devices
Susceptibility / ESD



NOTE: Signal generator, spectrum analyzer is customer supplied.

Some applications require additional upgrades from a standard package spectrum analyzer; please confirm spectrum analyzer compatibility with APREL.

Upgrade Highlights

- Single probe solution from 10kHz to 20GHz
- Single probe solution from 10kHz to 40GHz
- Upgraded boundary detection unit from SMA to K-Type with Spiro Flex
- Micro Stripline from 6GHz to 40GHz (fully characterized)
- Higher spatial resolution
- Calibration module for 40GHz
- K Type RF cables
- Advanced peak location analysis
- Multi-layer vector graphing
- 3D over 4D distribution plotting
- Improved dynamic touch detection
- Improved measurement uncertainty
- Vector scan routines
- Distance scans
- Field distribution analysis using horizontal probes (X/Y/Z)
- X, Y, Z Vector analysis of magnetic fields

Application Highlights

High-speed Either Net IC/ Systems

High-speed connectors and IO interfaces

10GB Ethernet transceivers

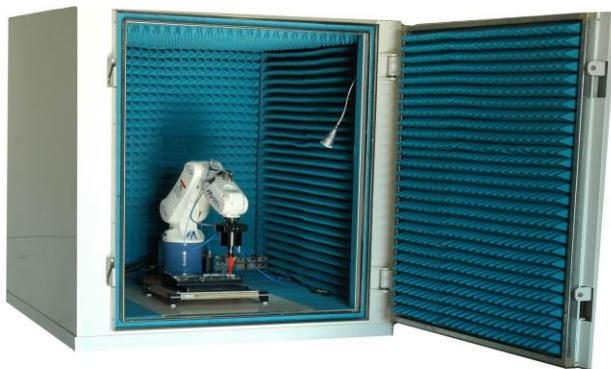
Optical Transceivers

Third up to 10th Harmonic analysis on,

- HDMI
- 3G/4G AWS/BRS/ABS
- 802.11abgn
- 802.11ac
- USB 3.0
- Intel CPU i5
- Intel CUP i7 965 Extreme
- AMD FX-81xx
- AMD A4-34xx
- AMD A6-36xx
- AMD A8-38xx
- Frequency Multipliers



Other applications and technologies can be tested with the 40GHz system upgrade. The examples presented are highlights of key technologies' which have been assessed using EM-ISight.



**Custom mobile shields available for purchase
with EM-ISight Systems**

Optional Accessories

Mobile Shield for isolation of ambient sources

(-145dBm >700MHz)

E-Field Antenna Probe

Dual Stage Low Noise Amplifiers DC to 40GHz

FFA Far Field Approximation Software

USA Ubiquitous Server Application

ESD/Susceptibility Test Suite (available winter 2015)

Robot mounted vision camera with 2.2µm pixel size and auto zoom