Building RF, Signal Processing and Communication Expertise in Academic and Research Institutions

Through Joint Project Execution, Quality Solutions and Training
Agenda

• Company Overview

• Our Products

• Solutions for Academic and Research Labs

• Training and Collaboration with MaxEye in Research Projects

• Summary
Company Overview

- **Company Incorporation**: August 2011
- **Location**: Bangalore
- **Team**
  - 12+ Engineers
  - 100+ years of industry experience.
- **Specializes in providing system integration and turnkey solutions in**
  - RF Test and Measurement, Wireless Communication, Signal processing
  - Image Processing and Machine Vision
  - Setting up Labs/Training for Academic and Research Institutions
- National Instruments Alliance Partner and Value Added Reseller
Our Products

- Powered by National Instruments LabVIEW Software, NI USRP, NI VSG (NI PXI 5673/5673E, NI PXI 5672), NI VST (NI PXIe-5644R/5645R/5646R ) and NI VSA (NI PXI 5663/5663E, NI PXI5661) Hardware.

- Enables testing of multiple digital video and audio broadcast standards testing using one NI PXI RF hardware.

- Real time streaming of the generated waveform using NI RFSG streaming mode.

- MaxEye Products available through LabVIEW Tools Network.

- The following are the digital video broadcasting toolkits currently being supported by MaxEye Technologies.
  
  - DVB-S
  - DVB-S2
  - DVB-T/H
  - DVB-T2
  - ISDB-T/Tb
  - CMMB
  - DTMB
  - ATSC and ATSC-M/H
  - DAB/DAB+/T-DMB
  - DRM/DRM Plus
MaxEye Academic - Mission

Building RF, Signal Processing and Communication Expertise and R&D Activities in Academic and Research Institutions
- Through Joint Project Execution, Quality Solutions and Training
Academic Solutions
RF and Communications Lab Setup

- Basic and advanced lab facilities.

- Laboratory course manual with list of experiments.

- Faculty Training Program as part of the Lab setup package to educate the faculties to effectively use the instruments for laboratory course includes Hands-on session with the hardware

- Only Training for the institutions that already has Lab Facilities.

- For Basic Lab - Transmit/receive pair of NI USRP-29xx transceivers (50 MHz to 2.2 GHz)

- Covers FM radio, GPS, GSM, radar, and ISM bands

- Modulation Toolkit (Analog and Digital Modulation/Demodulation Techniques)

- MaxEye Digital Video Measurement Suite Bundle for academic institutions covers various Digital Video Broadcasting standards
  - Satellite Television (DVB-S/S2)
  - Terrestrial (DVB-T/T2, ISDB-T/Tb, DTMB, ATSC-M/H, CMMB, DAB/DAB Plus, DRM, T-DMB)
Training and Collaboration with MaxEye in Research Projects
Academic-Industry Collaboration

- MaxEye is interested in setting up the Center of Excellence (Incubation Centers) in the academic institutions to jointly execute projects/products/research activities.

- Setting up RF and Communications Laboratory

- Opportunity to students for doing internship

- Faculty/Student Training programs on the real-life applications of the signal processing and communication engineering

- Joint Execution Funded Projects by various Government Agencies and other third parties
List of R&D Projects

- Digital Video Generation and Analysis Solutions
  - DVB – Satellite
  - DVB – Terrestrial
  - DVB – Cable

- MIMO Channel Emulator

- High Frequency Channel Modeling

- Software Defined Radio (SDR)
  - Satellite Modem
  - Telemetry Modem
  - Wireless Backhaul
  - Point-Point and Point-Multipoint Communication Modem

- DVB SFN Network Monitoring Solutions

- SDR Test Solution
Summary

• To produce talented engineers and quality products through research and development activities from Academic Institutions.

• Hands-on training on the real-time industrial projects for faculties and students

• Build and develop R&D centers across India
Thank You

For more information about our products, solutions and services please contact

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