MAXEYE TECHNOLOGIES

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

Through Joint Project Execution, Quality Solutions and Training
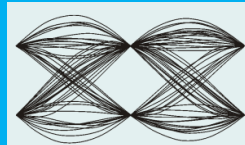
NATIONAL INSTRUMENTS™ | Alliance Partner

Agenda

- Company Overview

- Our Products

- Solutions for Academic and Research Labs

- Training and Collaboration with MaxEye in Research Projects

- Summary

MAXEYE TECHNOLOGIES

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

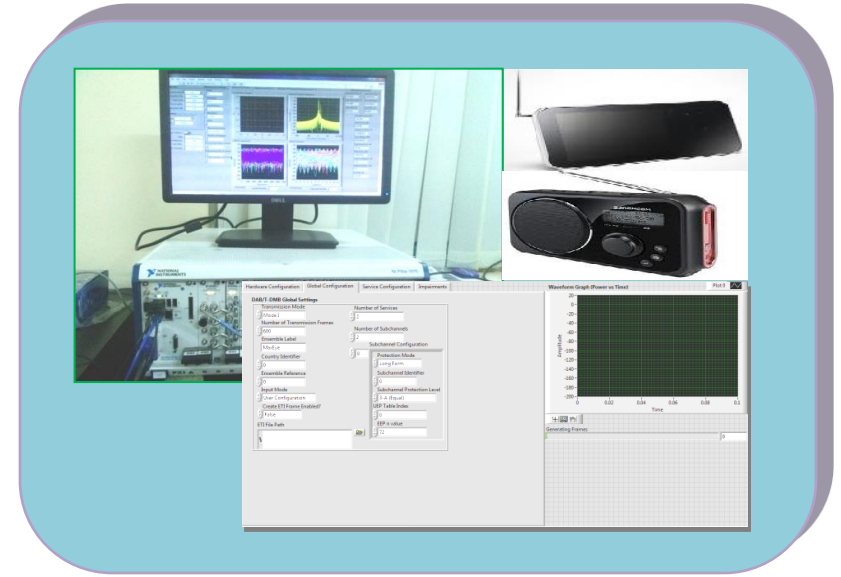- National Instruments Alliance Partner and Value Added Reseller
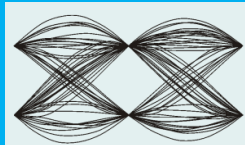

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Our Products

- 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

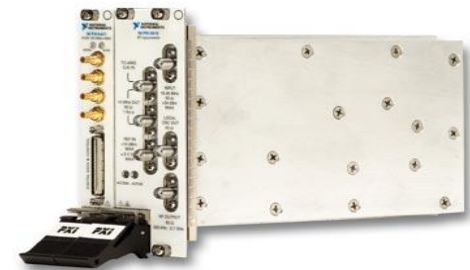**- Through Joint Project Execution, Quality Solutions and Training**

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)

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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

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List of R&D Projects

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

- ❑ MIMO Channel Emulator

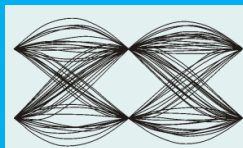- ❑ High Frequency Channel Modeling

- ❑ 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

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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

MAXEYE TECHNOLOGIES

Thank You

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www.maxeyetech.com

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