

## Analog Video Technology

### Description

This training course is dedicated to any attendee who expresses interest in learning more about Analog Video. It is a great opportunity for any actors of the TV ecosystem such as TV broadcasters, network operators, terminal manufacturers and system integrators to learn more about this technologies and systems.

### Course Objective

This training course aims at providing basic theoretical and practical knowledge on the Analog Video system and standard. It provides a wide overview of market segments and applications that would be addressed with this standard. The Course also aims to provide the participants with a good understanding on component and composite analog video as well as enhancing the understanding on the standard of analog video and the quality elements of analog video

### Course Pre-Requisite

No specific television or broadcast knowledge is required. But general familiarity with technical concepts is assumed. Some knowledge, experience and exposure in analog video will be better.

### Course Duration

This training course usually takes place over 1 day. This could be extended on specific request.

## Trainer

Training course led by the technical expert who has a few years of working experience in analog video, digital video, audio technologies, MPEG and RF; and has conducted related equipment and technology training programs to a wide range of industries ranging from broadcast to telecommunications to education to the military

## Format

Classroom explanation and demonstration

Each delegate completing this course will receive a full set of course note and certificate of attendance

## Course Content

- ▼ Scanning Concepts
  - ✚ Object to signal conversion
  - ✚ Scanning process
  - ✚ Horizontal and Vertical Resolution
  
- ▼ Component Format
  - ✚ Introduction
  - ✚ RGB Specification
  - ✚ RGB Signal Type
  - ✚ Color Different Specification
  - ✚ Color Different Signal Type
  
- ▼ Component Testing Concepts
  - ✚ Gamut
  - ✚ Vectorscope
  - ✚ Waveform
  - ✚ Timing Measurement
  - ✚ Amplitude Measurement
  - ✚ Bowtie
  
- ▼ Composite Signal Basics
  - ✚ Introduction
  - ✚ Composite Video Creation

- ▼ Composite Format
  - ✚ Composite Video Specification
    - ✚ PAL
    - ✚ NTSC
    - ✚ SECAM
  
- ▼ Composite Testing Concept
  - ✚ Vectorscope
  - ✚ Waveform
  - ✚ Amplitude Measurement
  - ✚ Timing Measurement
  
- ▼ Composite Testing Parameters
  - ✚ Describe on definition, picture effect, test signal and measurement method for each of the parameter.
    - ✚ Amplitude and Timing Measurements
    - ✚ SCH Phase Measurements
    - ✚ Linear Distortion Measurements
    - ✚ Non-Linear Distortion Measurements
  
- ▼ Summary