

IP Encoders w/VIDOS Administration

- Course Title:** IP Encoders and Cameras with VIDOS Administration
- Duration:** 3 Days
- Target Audience:** Technicians, Project Managers, IT Professionals, Sales Engineers
- Total Attendees:** 8
- Objectives:** Upon successful completion of this course the participant should be able to:
- Identify IP networking principles and equipment
 - Install and configure various Bosch encoders and decoders
 - Understand VIDOS system architecture and equipment
 - Understand basic system configurations
 - Install and configure VIDOS from an administrative standpoint, to include:
 - Maps
 - Workspaces
 - Users and User Groups
 - Basic and advanced alarm configuration
 - Automation interface implementation
 - VIDOS deployment in server environment
 - Virtual matrix
- Prerequisites:**
- IP Encoders:** Read Bosch's Networking Essential Handbook
- VIDOS Administration:** Pass first day – IP Encoders and Cameras

Course Content:

Module 1: Networking 101

- Basic Class IP Addressing
- Introduction to Unicast, IP Multicast
- Repeaters, Bridges and Switches, Routers (Base OSI Model)
- TCP, UDP Ports and Concepts

Module 2: Bosch Video IP Product Overview

- Encoders and Decoders CCTV Basic Concepts
 - CIF, 2 CIF, 4 CIF
 - Big Box, Enterprise, Direct Connect Concepts
- X Generation
- 1600
- Networking and Encoder Ports

- Web Interface (Basic Overview/Concept)

Module 3: Software Installation

- Installation of Configuration Manager Software and Prerequisites
 - MPEG Active X/Video SDK
 - Direct X 9 C
 - DOT NET Framework
 - Configuration Manager
 - Configuring IE Web Browser Security Settings (6 and 7)

Module 4: Encoder Detection and Configuration

- Scanning the Network via Configuration Manager
- Encoder IP Assignment
- Roles of Configuration Manager
- Encoder Webpage Basics (Live Viewer Page, JPEG Page)
- Encoder Service Settings Page
 - Loading Firmware
 - Camera Settings
 - Frame Rate and Resolution
 - Encoder/1600 Exercise 1
 - Recording Options
 - Com Settings
 - IP and Multicast Settings

Module 5: Encoder Exercises and Troubleshooting (1600 Manual)

- Encoder/1600 Exercise 2
- Alarm Settings
- RTC Images
- Tech Tools

Module 6: IP Encoder Tests

- Practical Exam
 - Detect and Configure IP of Assigned Encoder
 - Configure Encoder Profiles
 - Configure Encoder's Alarm Settings
 - Configure Encoder's Com Settings
- Written Exam

Module 7: PC and Servers

- PC Hardware and Requirements
- Server Hardware Requirements
- Operating and Service Pack Requirements and Limitations

Module 8: Software Installation

- Installation of Software Prerequisites
 - MS Virtual Machine
 - MPEG AX
 - Direct X9
- Installation of VIDOS Suite
 - VIDOS
 - Viewer
 - Archive Player
 - Configuration Manager

Module 9: General VIDOS Functionality Overview

- Root Directory Data
- VIDOS Menus and Windows

- Licensing
- Configuration
 - Admin Functions
 - Manual Device Addition
 - Device Deletion
- Global Settings
- Device “Right Click” Menus
- Live Video
- Play Backs

Module 10: VIDOS Mapping

- Defining User Privileges
 - Create Site Maps
 - Work Spaces
 - User Groups
 - Users
- Create Maps
 - Map Editor
 - Step-by-Step Map Creation: JPG, Viewing Windows, Cams, Auto Connections, Device Numbering, On-Click Actions, Hyperlinks
- Generate Work Space
- Configuration
- Create Site Maps
 - User Groups
 - Users
- Log in with different Credentials
- Path VIDOS to a Network Folder

Module 11: Alarm Configuration

- Single Triggers and Reactions
- Logical Triggers
- Alarm Scenarios
 - Basic Jobs
- Scripting
 - Basic Scripting
- Automation Interface: Same Scripting Language
 - Base Examples
 - AI Rules and Accounts
 - AI Tools

Module 12: Decoders and Monitor Wall

- Tour and Salvo Creation
- Auto Decoder Connection
- Auto Virtual Viewing Window Connection
- Monitor Wall Overview and Demo

Module 13: VIDOS Server

- Server Connection Options
- Configuration Manager in Server Mode
- Managing Users and Groups
- Group Privileges and Priorities
- Central DB Monitoring

Module 14: Virtual Matrix

- Virtual Matrix Concepts
 - User Accounts

- System Design
- Device Numbering

Module 15: RAID 101

- RAID Concepts
 - RAID 0
 - RAID 1
 - RAID 5

Module 16: iSCSI Concepts

- iSCSI Basics
- iSCSI Configuration
- DAS Connection and Configuration
- NAS and SAN Design Considerations

Module 17: Video Playback and Export

- Playback in VIDOS
- Archive Player Overview
 - Menus
 - Video Search
 - Basic Export
 - CD/DVD Export
 - Troubleshooting
 - Forensic Search

Module 18: Review/Final Exam

- Course Review
- Final Exam

Final Exam: Passing grade is 75% or higher

Practical Content: At least 70% hands-on