

Course title: Video Essentials Master Course

Duration: 3 Days

Target audience: Technicians, Project Managers and IT Professionals

Max number of attendees: **4**

Objectives:

Upon successful completion of this course, the participant should be able to:

- Identify Bosch Video devices and their capabilities
- Configure a defaulted Bosch Video Device
- Define camera configurations and capabilities
 - Configure using Configuration Manager
- Understand the different DIVAR IP Recording Appliances along with Basic Install Wizards
- Configure Bosch Video devices to record to a pre-installed VRM system VRM
- Utilize both Video Security Client (VSG) and Bosch Video Client (BVC)
- Perform Basic and Advanced Alarm Configurations
- Perform IVA configuration
- Pass the Final Written and Practical Exams with a 80% or higher score.

Introduction and Technology Check – Morning session 10 minutes

Training Block 1 – Morning session 50 minutes

B1-Module 1: Networking Fundamentals

- Classful IP Addressing refresher
- Communication Protocols and Ports
- Network Services

B1-Module 2: Video Compression Fundamentals

- Video Foundations
 - H.264 and ONVIF
 - Frame and Streaming Basics
 - SD and HD Resolutions
- H.265 vs H.264
 - GPU vs CPU Decoding

B1-Module 2: Encoder and Camera Technical Overview

- Product Family Overview
 - CPP Platforms
- 5MP and Ultra HD Resolutions
- Panoramic Devices
- CPP7.3
- Communications and Protocols

Break

Training Block 2 – Morning Session 1 hour

B2-Module 1: Initial Device Configuration

- Project assistant intro
- Configuration Manager Basics
- Default IP addressing
- Initial Password policies
- Firmware Downloads and Installation
- 6.50 and 6.51 firmware implementation

B2-Module 2: Configuration Manager: General Menus

- Authentication and Local Data base
- Device Access menus
- User Management menus
- Date and Time options
- Initialization menu
 - Application Variants
 - Lens Wizard
 - Encoding and FPS Options

B2-Module 3: Configuration Manager: Camera Menus

- Video Input menu
 - Authentication and hashing
- Imaging menu
 - iDNR and CBIT
- User Management menus
- Date and Time options
- Initialization menu
 - Application Variants
 - Lens Wizard
 - Encoding and FPS Options

End of Day 1 Morning Session**B2-Module 4: Configuration Manager: Recording Menu Day 1 Afternoon session 2 Hours**

- Recording Options Review
- Configuring Micro SD
 - Formatting and Recording Status
- Recording Profiles
 - Stream Assignment
 - Day Night Weekend
- Recording Scheduler
- SD Card Status menu

B2-Module 5: Configuration Manager: Alarms

- Camera and Decoder Connections
- Email and JPG Posting
- Camera Profiles and Input Alarms

Break**B2-Module 6: Configuration Manager: VCA and Basic Motion Plus**

- Silent VCA and Profiles
- Main Menu Settings
 - Naming
 - Operating Mode
 - Debounce time
 - Aggregation
- Saving, loading, and Defaulting
- Tamper Detection
- Default Tasks
- Basic Task edits and creation
- Masking

B2-Module 7: Configuration Manager: Network Tab

- Network Access and Services
- Network Management
- Multicast
- Image posting and Accounts

End of Day 1**Training Block 3 – Day 2 Morning session 1 hour****B3-Module 1: Edge Dewarping**

- Application Variant
- Dewarping and Stream options
- Video Apps and Dewarped streams
- Recording implications

B3-Module 2: PTZ Fundamentals

- PTZ Menus
- Pre-sets and Tours
- Scene Blanking
- Recording Tours
- Aux Commands

Break**Training Block 4 - Day 2 Morning session 1 Hour****B4-Module 1: IVA Technical Overview**

- IVA vs VCA
- Meta Data and Recording
- Capabilities
- Features

B4-Module 2: Calibration Fundamentals

B4-Module 3: Menus and Calibration

B4-Module 4: Task Basics

End of Day 2 Morning Session

B4-Module 5: Exercise Modules **Day 2 Afternoon session 2 Hours**

B4-Module 6: Object Classification

B4-Module 7: Forensic Playback

- BVC Post Forensic Search

End of Day 2

B4-Module 8: Video Security Client **Day 3 Morning Session 1 Hour**

- Adding a “Gateway” vs Site
- Live View
- Viewing Recorded Video
- Iva Searches
- VCS vs BVC
- VSC Mobile App

Break

Training Block 5 : Recording Options – 30 minutes

B5-Module 1: Small System Recording options

- Appliance vs Hybrids
- DIVAR Recording appliance Overview
- Hybrid product line overview

Test review and questions – 30 minutes

End of Morning Day 3

Practical Exam – Afternoon Day 3 - 2 hours