AXIS P3364-LVE Common Configuration Scenarios

Scenario 1: Basic Security Camera Setup

Use Case: Standard security monitoring with recording to SD card

Configuration Steps:

1. **Initial Setup** (Manual p.16)
   - Set root password
   - Configure static IP or verify DHCP
   - Set timezone and NTP server
2. **Video Configuration** (Manual p.17)
   - Resolution: 1920x1080 for high quality
   - Compression: Medium (balance quality/storage)
   - Frame rate: 15-25 fps
   - Enable H.264 with medium GOP length
3. **Storage Setup** (Manual p.50)
   - Insert SD card (recommended: 64GB+ Class 10)
   - Enable continuous recording
   - Set automatic deletion after 30 days
4. **Motion Detection** (Manual p.33)
   - Install AXIS Video Motion Detection app
   - Configure detection zones
   - Set up recording action rule

Scenario 2: Two-Way Audio Intercom System

Use Case: Entry point monitoring with visitor communication

Configuration Steps:

1. **Audio Hardware** (Manual p.61)
   - Connect microphone to pink audio input
   - Connect speaker to green audio output
   - Verify connections and test levels

2. **Audio Settings** (Manual p.24)
    - Enable audio support in security settings
    - Set mode to "Full duplex" for two-way communication
    - Configure input gain for microphone
    - Set output gain for speaker volume
    - Select AAC encoding for best quality
3. **Network Configuration**
    - Ensure sufficient bandwidth for audio/video
    - Configure QoS if network congestion exists
    - Test audio latency and quality
4. **User Access** (Manual p.42)
    - Create operator accounts for staff
    - Enable audio permissions for users
    - Test two-way communication functionality

Scenario 3: Integration with Access Control System

Use Case: Door monitoring with automatic recording on card access

Configuration Steps:

1. **I/O Wiring** (Manual p.61)
    - Connect door sensor to digital input (Pin 3)
    - Connect strobe light to digital output (Pin 4)
    - Configure normal state (open/closed circuit)
2. **Event Configuration** (Manual p.34)
    - Create action rule triggered by digital input
    - Set pre-trigger recording (5 seconds)
    - Set post-trigger recording (10 seconds)
    - Add overlay text showing "Access Event"
3. **Output Actions**
    - Activate strobe light for 3 seconds
    - Send email notification with snapshot

- Record to network share for long-term storage

4. **Schedule Setup** (Manual p.38)
   - Configure different rules for business hours
   - Set night mode with IR illumination
   - Adjust motion detection sensitivity

Scenario 4: Remote Monitoring Over Internet

Use Case: Off-site monitoring through firewall/router

Configuration Steps:

1. **Network Security** (Manual p.43)
   - Enable HTTPS with certificates
   - Disable HTTP access
   - Configure strong passwords
   - Enable IP address filtering
2. **Router Configuration** (Manual p.48)
   - Enable NAT traversal (UPnP)
   - Configure port forwarding if UPnP fails
   - Set external port (e.g., 8080 → 80)
   - Configure DDNS for dynamic IP
3. **User Access Control** (Manual p.42)
   - Create viewer accounts for remote users
   - Disable anonymous access
   - Set session timeouts
   - Enable audit logging
4. **Bandwidth Optimization**
   - Create multiple stream profiles
   - Lower resolution for mobile viewing
   - Configure adaptive bitrate
   - Set maximum concurrent connections

Scenario 5: 24/7 Recording with Motion Analytics

Use Case: Continuous recording with intelligent motion detection

Configuration Steps:

1. **Storage Planning** (Manual p.50)
   - Calculate storage requirements
   - Set up network share (NAS)
   - Configure automatic cleanup policies
   - Enable storage disruption alarms
2. **Recording Setup** (Manual p.40)
   - Enable continuous recording
   - Use H.264 with higher compression
   - Set appropriate GOP length
   - Configure stream profiles for different purposes
3. **Motion Detection** (Manual p.33)
   - Install and configure VMD application
   - Set detection zones and sensitivity
   - Configure object size filters
   - Set up tamper detection
4. **Alert Configuration** (Manual p.36)
   - Email notifications for critical events
   - SNMP traps for monitoring system
   - Audio announcements for local alerts
   - Log all events to syslog server

Scenario 6: Multi-Zone Monitoring with PTZ Presets

Use Case: Large area coverage with automated patrol

Configuration Steps:

1. **PTZ Setup** (Manual p.29)
   - Enable digital PTZ in view area
   - Configure multiple preset positions

- Set meaningful names for each preset
- Test all preset positions

2. **Guard Tour Configuration** (Manual p.29)
   - Create guard tour with 6-8 presets
   - Set 30-second view time per position
   - Configure 2-minute pause between tours
   - Enable guard tour schedule
3. **Event Integration**
   - Motion detection triggers specific preset
   - Alarm input interrupts guard tour
   - Manual override capability
   - Return to guard tour after event
4. **Control Access** (Manual p.31)
   - Configure PTZ control queue
   - Set operator priorities
   - Limit viewer PTZ access
   - Enable PTZ activity logging

Performance Optimization Tips

For High-Traffic Environments:

- Use multicast streaming for multiple viewers
- Implement stream profiles for different client types
- Configure bandwidth limitations per user
- Monitor CPU usage and adjust frame rates

For Low-Bandwidth Situations:

- Reduce resolution and frame rate
- Increase compression levels
- Use MJPEG only when necessary
- Implement adaptive streaming

For Critical Applications:

- Use redundant storage (SD + network share)
- Configure failover mechanisms
- Enable comprehensive event logging
- Set up monitoring and health checks

For Integration Projects:

- Document all custom configurations
- Use descriptive names for all settings
- Create backup configuration files
- Test all integrations thoroughly