

WYZE Camera Security Mastery Course

"Unfuckwithable Digital Security Camera System"

Target: 10/10 mastery across all critical security functions **Scope:** Multi-location enterprise-grade security using consumer hardware **Philosophy:** Defense in depth, redundancy, and proactive monitoring

COURSE STRUCTURE

Module 1: Foundation Assessment & Network Security (25 points)

Module 2: Device Configuration & Access Control (25 points)

Module 3: Recording & Data Protection (20 points)

Module 4: Monitoring & Alert Systems (15 points)

Module 5: Multi-Location Management (15 points)

Total: 100 points = 10/10 mastery

MODULE 1: FOUNDATION ASSESSMENT & NETWORK SECURITY (25 POINTS)

1.1 Current State Audit (5 points)

TASK: Complete comprehensive inventory

Checklist:

- ☐ List all WYZE devices (cameras, doorbells, sensors) by location
- ☐ Document current firmware versions for each device
- ☐ Map network topology (main router, access points, VLANs)
- ☐ Identify internet upload speeds at each location
- ☐ Document current storage solutions (cloud, local, hybrid)

SCORING:

- 5/5: Complete inventory with documentation
- 3/5: Most devices catalogued, some gaps
- 1/5: Basic list exists
- 0/5: No systematic inventory

1.2 Network Segmentation (10 points)

TASK: Implement IoT network isolation

Requirements:

- ☐ Dedicated IoT VLAN or guest network for all cameras
- ☐ Firewall rules blocking IoT-to-main network communication
- ☐ IoT devices cannot access internet except for necessary services
- ☐ Regular network scanning to detect unauthorized devices

Implementation Steps:

1. Access router admin panel
2. Create dedicated 2.4GHz network (IoT_Secure_[LocationName])
3. Configure bandwidth limits (reserve upload for camera streams)
4. Set up access control lists (ACLs)
5. Move all WYZE devices to isolated network

SCORING:

- 10/10: Full network segmentation with monitoring
- 7/10: IoT network separated, basic rules in place
- 4/10: Guest network used, minimal configuration
- 0/10: All devices on main network

1.3 Router Security Hardening (10 points)

TASK: Secure network infrastructure

Requirements:

- ☐ Change default admin credentials
- ☐ Disable WPS and unnecessary services
- ☐ Enable WPA3 (or WPA2 if WPA3 unavailable)
- ☐ Configure automatic security updates
- ☐ Set up VPN access for remote management
- ☐ Enable logging and monitoring

SCORING:

- 10/10: All security measures implemented with documentation
- 7/10: Most measures in place, minor gaps
- 4/10: Basic security changes made

- 0/10: Default configuration unchanged
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MODULE 2: DEVICE CONFIGURATION & ACCESS CONTROL (25 POINTS)

2.1 Account Security (8 points)

TASK: Secure WYZE account and access

Requirements:

- ☐ Unique, complex password (min 16 characters)
- ☐ Two-factor authentication enabled
- ☐ Regular password rotation schedule
- ☐ Shared account access documented and limited
- ☐ Account recovery methods secured

Implementation:

1. Generate strong password using password manager
2. Enable 2FA via authenticator app (not SMS)
3. Document authorized users and access levels
4. Set calendar reminder for quarterly password rotation

SCORING:

- 8/8: All security measures plus documentation
- 6/8: Strong password + 2FA enabled
- 3/8: Password improved but 2FA missing
- 0/8: Weak security or default settings

2.2 Device Firmware & Updates (7 points)

TASK: Maintain current security patches

Requirements:

- ☐ All devices on latest firmware
- ☐ Automatic updates enabled where possible
- ☐ Update notification system configured
- ☐ Testing procedure for major updates
- ☐ Rollback plan documented

Automation Setup:

1. Enable auto-updates in WYZE app
2. Set up monitoring for available updates
3. Create testing schedule for major firmware releases
4. Document known good configurations

SCORING:

- 7/7: Automated update system with testing protocol
- 5/7: Regular manual updates performed
- 3/7: Some devices updated, inconsistent process
- 0/7: Outdated firmware, no update process

2.3 Camera Configuration Security (10 points)

TASK: Optimize individual camera settings

Per-Camera Checklist:

- ☐ Unique device names (no default "WYZE_CAM_XXX")
- ☐ Appropriate privacy zones configured
- ☐ Motion detection zones optimized
- ☐ Recording quality set appropriately for bandwidth
- ☐ Night vision settings optimized
- ☐ Audio recording configured per legal requirements
- ☐ Time zone and timestamps accurate

Advanced Settings:

- ☐ RTSP firmware for critical cameras (enables 3rd party recording)
- ☐ Local storage backup configured
- ☐ Bandwidth optimization for multi-camera setups

SCORING:

- 10/10: All cameras optimally configured with documentation
 - 7/10: Most cameras properly configured
 - 4/10: Basic configuration completed
 - 0/10: Default settings unchanged
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MODULE 3: RECORDING & DATA PROTECTION (20 POINTS)

3.1 Storage Strategy (8 points)

TASK: Implement redundant recording system

Requirements:

- ☐ Primary: Local NVR or NAS system
- ☐ Secondary: WYZE cloud backup for critical cameras
- ☐ Tertiary: Offsite backup for high-value locations
- ☐ Retention policy documented and automated

Implementation Options:

Option A: Professional NVR

- Dedicated NVR with RAID storage
- 30+ day retention for all cameras
- Automated backup to cloud storage

Option B: DIY NAS Solution

- Synology/QNAP NAS with Surveillance Station
- RTSP streams from WYZE cameras
- Automated offsite replication

Option C: Hybrid Cloud

- WYZE cloud for motion events
- Local storage for continuous recording
- Third-party cloud for long-term archive

SCORING:

- 8/8: Triple redundancy with documented procedures
- 6/8: Local + cloud backup implemented
- 3/8: Single backup method in place
- 0/8: No systematic backup strategy

3.2 Data Encryption & Access (7 points)

TASK: Secure recorded data

Requirements:

- ☐ Local storage encrypted
- ☐ Cloud storage with end-to-end encryption
- ☐ Access logs maintained
- ☐ Data sharing policies documented
- ☐ Legal compliance verified (retention periods, privacy laws)

SCORING:

- 7/7: Full encryption with compliance documentation
- 5/7: Encryption enabled, basic access control
- 2/7: Some security measures in place
- 0/7: No encryption or access control

3.3 Backup Verification (5 points)

TASK: Ensure backup reliability

Requirements:

- ☐ Monthly backup integrity tests
- ☐ Recovery time objectives documented
- ☐ Restoration procedures tested quarterly
- ☐ Backup monitoring and alerting

SCORING:

- 5/5: Automated testing with documented procedures
 - 3/5: Regular manual verification
 - 1/5: Occasional backup checks
 - 0/5: No verification process
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MODULE 4: MONITORING & ALERT SYSTEMS (15 POINTS)

4.1 Motion Detection & AI (8 points)

TASK: Optimize detection and reduce false positives

Requirements:

- ☐ Person detection enabled on all appropriate cameras
- ☐ Detection zones configured to avoid high-traffic areas
- ☐ Sensitivity adjusted per camera location
- ☐ AI features (person/vehicle/pet detection) properly configured

- ☐ Integration with other security systems

Advanced Configuration:

- ☐ Time-based detection rules (different sensitivity day/night)
- ☐ Weather-based adjustments
- ☐ Integration with alarm systems

SCORING:

- 8/8: Advanced AI detection with minimal false positives
- 6/8: Good detection setup with occasional false alerts
- 3/8: Basic motion detection configured
- 0/8: Default detection settings

4.2 Alert Management (7 points)

TASK: Create actionable notification system

Requirements:

- ☐ Tiered alert system (critical vs. informational)
- ☐ Multiple notification channels (app, email, SMS)
- ☐ Alert escalation procedures
- ☐ Response protocols documented
- ☐ Alert fatigue mitigation strategies

Alert Categories:

- **Critical:** Person detected in restricted areas after hours
- **High:** Motion during defined "quiet" periods
- **Medium:** General motion detection
- **Low:** System status updates

SCORING:

- 7/7: Sophisticated alert system with documented responses
 - 5/7: Multi-channel alerts with basic categorization
 - 2/7: Basic app notifications enabled
 - 0/7: No customized alert system
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MODULE 5: MULTI-LOCATION MANAGEMENT (15 POINTS)

5.1 Centralized Monitoring (8 points)

TASK: Unified view across all locations

Requirements:

- ☐ Dashboard showing all locations
- ☐ Standardized naming conventions
- ☐ Unified alert management
- ☐ Centralized storage and backup
- ☐ Performance monitoring across sites

Tools:

- WYZE app with multiple locations
- Third-party NVR software for unified view
- Custom dashboard using API access

SCORING:

- 8/8: Professional centralized monitoring system
- 6/8: Good visibility across locations
- 3/8: Basic multi-location setup
- 0/8: Individual location management only

5.2 Scaling & Standardization (7 points)

TASK: Repeatable deployment process

Requirements:

- ☐ Standardized equipment lists per location type
- ☐ Deployment checklists and procedures
- ☐ Configuration templates
- ☐ Training materials for local staff
- ☐ Maintenance schedules synchronized

SCORING:

- 7/7: Complete standardization with documentation
- 5/7: Good standardization across most elements
- 2/7: Some standards established

- 0/7: Ad-hoc deployment per location
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ASSESSMENT MATRIX

Self-Assessment Tool

Rate each item 1-10, then calculate module scores:

Module 1: Foundation (25 points)

- Current State Audit: ____/5
- Network Segmentation: ____/10
- Router Security: ____/10
- **Module 1 Total:** ____/25

Module 2: Configuration (25 points)

- Account Security: ____/8
- Firmware Updates: ____/7
- Camera Configuration: ____/10
- **Module 2 Total:** ____/25

Module 3: Data Protection (20 points)

- Storage Strategy: ____/8
- Data Encryption: ____/7
- Backup Verification: ____/5
- **Module 3 Total:** ____/20

Module 4: Monitoring (15 points)

- Motion Detection: ____/8
- Alert Management: ____/7
- **Module 4 Total:** ____/15

Module 5: Multi-Location (15 points)

- Centralized Monitoring: ____/8
- Scaling: ____/7
- **Module 5 Total:** ____/15

OVERALL SCORE: ____/100

Mastery Levels

- **90-100:** Security Master - "Unfuckwithable" status achieved
 - **80-89:** Advanced - Strong security, minor improvements needed
 - **70-79:** Intermediate - Good foundation, key areas need work
 - **60-69:** Beginner - Basic setup, significant improvements required
 - **Below 60:** Critical - Major security vulnerabilities present
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IMPLEMENTATION ROADMAP

Week 1: Foundation

- Complete current state audit
- Implement network segmentation
- Secure router configuration

Week 2: Device Security

- Upgrade account security
- Update all firmware
- Configure cameras optimally

Week 3: Data Protection

- Implement backup strategy
- Enable encryption
- Test recovery procedures

Week 4: Monitoring & Multi-Location

- Optimize detection systems
- Set up centralized monitoring
- Document all procedures

Ongoing: Maintenance

- Monthly security reviews
 - Quarterly penetration testing
 - Annual complete reassessment
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QUICK START CHECKLIST

Priority 1 (Do Today):

- ☐ Change WYZE account password
- ☐ Enable 2-factor authentication
- ☐ Update all device firmware
- ☐ Create IoT network

Priority 2 (This Week):

- ☐ Configure camera detection zones
- ☐ Set up local backup system
- ☐ Document current setup
- ☐ Test alert notifications

Priority 3 (This Month):

- ☐ Implement comprehensive backup
- ☐ Set up monitoring dashboard
- ☐ Create response procedures
- ☐ Train authorized users

Ready to achieve 10/10 mastery? Let's start with your current state audit.