



## Firmware Updater

### Firmware version 1.0.0 - release date 2025-09-15

Firmware Updater for audio equipment

#### Overview

We're excited to announce the first release of Firmware Updater, a comprehensive device management solution designed for audio professionals who need efficient, reliable equipment management. This MVP release delivers essential functionality for discovering, managing, and updating audio devices in professional environments.

Firmware Updater provides four core capabilities: updating device firmware, claiming devices for management, changing device passwords, and performing factory resets. These functions form the foundation for efficient device lifecycle management in professional audio environments.

## Technical requirements

### System requirements

- Operating Systems: Windows 10+
- Memory: 4 GB RAM minimum, 8 GB recommended
- Network: Ethernet or Wi-Fi connectivity, same subnet as managed devices
- Browser: Modern web browser for web-based interface (Chrome 90+, Firefox 88+)

### Network requirements

- IPv4 network connectivity
- DHCP support (recommended)
- Multicast DNS (mDNS) support for automatic discovery
- Standard network ports: HTTP/HTTPS (80/443), mDNS (5353)

#### **i** Firewall configuration

If you experience issues with automatic device discovery, please verify your firewall settings:

Required firewall rules

- UDP Port 5353 must be open for incoming traffic (mDNS/Bonjour protocol)
- Local network traffic should be permitted between the "Firmware Updater" and device subnets

Common firewall solutions

- Windows firewall: allow "Firmware Updater" application through firewall
- Corporate networks: contact your IT administrator to whitelist UDP 5353
- Router/Gateway: ensure mDNS traffic is not blocked between network segments

### Supported devices

- EW-DX series devices with network management capabilities
- Devices supporting the standard device management API
- Both DHCP and static IP configured devices



## What's new

### Device discovery and management

#### Automatic network discovery

- Instantly discover compatible devices on your local network
- Real-time device list updates as equipment connects/disconnects
- Comprehensive device information display (name, type, IP, firmware version)
- Sub-10-second discovery time for rapid setup

#### Manual device addition

- Add devices by IP address when automatic discovery isn't available
- Input validation and duplicate detection
- Support for legacy devices and isolated network configurations
- Clear error messaging for troubleshooting

#### Device claiming and security

- Secure device claiming with password protection
- One-click claiming process with built-in security validation
- Device ownership management for multi-user environments
- Encrypted credential storage and transmission

### Firmware management

#### Quick firmware updates

- One-click firmware updates with minimal user interaction
- Real-time progress tracking and status updates
- Automatic update verification and rollback protection
- Clear success/failure notifications with actionable guidance

#### Smart update warnings

- Special warning system for major firmware version changes (v3->v4)
- Detailed information about irreversible changes and new requirements
- Legacy compatibility mode information
- Security protocol upgrade notifications (SSCv2 activation)

#### License compliance

- Mandatory license agreement acceptance for all firmware updates
- Clear legal compliance workflow
- Update blocking until license terms are accepted
- Audit trail for license acceptance

### Device inventory management

#### Comprehensive device overview

- Centralized view of all discovered and managed devices
- Real-time status updates and health monitoring
- Clean, organized interface optimized for quick scanning
- Responsive design for various screen sizes



## Advanced search and filtering

- Instant search by device name, ID, or IP address
- Multi-criteria filtering (type, firmware version, status)
- Partial match support and case-insensitive search
- One-click filter reset functionality

## Scalable inventory navigation

- Configurable pagination (10, 20, 50, 100 devices per page)
- Persistent page size preferences across sessions
- Efficient performance with large device inventories
- Smart navigation controls for quick access

## Security and device management

### Password management

- Quick individual device password updates
- Real-time password strength validation
- Secure transmission with no plaintext storage
- Immediate success/failure feedback

### Factory reset capability

- Fast factory reset for device preparation and maintenance
- Safety confirmation dialogs prevent accidental resets
- Progress tracking with clear status indicators
- Automatic device redisccovery after reset completion

## Network connectivity

### IPv4 network support

- Full IPv4 compatibility for standard network environments
- Manual IP configuration with format validation
- Network connectivity diagnostics and troubleshooting
- Enterprise network integration support

### DHCP integration

- Automatic IP address assignment and tracking
- Real-time DHCP lease monitoring and renewal
- Clear visual indicators for DHCP vs. static IP assignment
- IP change history with timestamp logging

## User interface and experience

### Dark mode support

- Eye-strain reduction for low-light work environments
- Instant theme switching with persistent preferences
- Optimized for nighttime and dimly lit production setups
- Professional dark theme design

### Customizable interface

- Persistent user preferences across sessions



- Configurable page sizes and view options
- Responsive layout adapting to different screen sizes
- Intuitive navigation designed for efficient workflows

## Privacy and data protection

### Transparent data collection

- Clear information about data collection practices
- Anonymized usage analytics for software improvement
- No personally identifiable information collected
- GDPR-compliant data handling and pseudonymization

### User privacy controls

- Complete control over data tracking preferences
- One-click tracking disable functionality
- Immediate privacy setting changes (no restart required)
- Clear privacy policy information and user rights

## Installation and deployment

### Windows Support

- Native Windows installer with digital signing
- Digitally signed installer eliminates security warnings
- Professional installer experience with license agreement
- Enterprise-ready deployment for Windows environments

### Security and trust

- Code-signed installer passes Windows SmartScreen validation
- No “unknown publisher” warnings during installation
- Professional certificate chain validation
- Secure software distribution and verification

## What’s coming next

While this MVP release delivers core functionality for device management and firmware updates, we’re already working on enhanced capabilities for future releases:

- Mass device operations for batch updates and configuration
- Advanced networking features including IPv6 support
- Enhanced error handling with detailed diagnostics
- Expanded device support for additional hardware types
- Workflow automation for common management scenarios

## Support and documentation

### Getting help

- User Manual: Comprehensive PDF guide available on our website
- Technical Support: Contact our support team for assistance
- Documentation: Full technical documentation for IT administrators
- Community: User forums and knowledge base resources



## Feedback

We value your feedback on this initial release. Please contact us with:

- Feature requests and suggestions
- Bug reports and technical issues
- Workflow improvements and usability feedback
- Integration requirements for your environment

## Security and privacy

### Data protection

- All user data handled according to GDPR and privacy regulations
- Optional anonymized analytics with full user control
- No personal information collected or stored
- Secure device communication using industry-standard encryption

### Software security

- Digitally signed software ensures authenticity and integrity
- Regular security updates and patches
- Secure communication protocols for device management
- Professional certificate validation and trust chains

**Firmware Updater v1.0** represents our commitment to delivering professional-grade tools for audio equipment management. We're excited to see how this foundation supports your production workflows and look forward to continuing development based on your feedback and needs.

For the latest updates, documentation, and support resources, visit our website or contact our technical support team.