

# mini max Firmware Update Release Notes

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## mini max Version 2.39 | Updated March 2026

### Key Optimizations & New Features:

- New: Added Chroma Key Function
  - Applicable to scenes where PST and PGM use the same layer
  - Sample color via color picker, then enable Chroma Key switch
  - Adjust "Color Range" and "Edge" parameters
- New: Added TAO Cloud device binding and remote control
  - Signal source selection and switching on Info page
  - Support recording, streaming, PTZ control
- New: Web UI new functions
  - Background and foreground support image upload
  - Custom hotkeys added in Settings page
- Fixed: Audio column and audio mapping error for PST
- Optimized: PGM source quick- switch performance
- Optimized: Fade in/out effect when background is enabled
- Optimized: Screen flicker during crop & scale adjustment
- Optimized: Frame drop in segmented recording
- Optimized: Slow recognition of IN2 HDMI input at boot
- Optimized: Encoding output issues
  - Fixed shifted/misaligned encoding output
  - Fixed no video but audio in encoding (0KB recording)

Note: Devices with serial numbers 1–40 may show abnormal PVW/PGM output after upgrading to this version. Please contact our FAE engineers for re- upgrade.

## **mini max Version 2.29 | Updated February 2026**

### Key Optimizations & New Features:

- New: Multi- channel recording
  - Fixed 1 PGM output + up to 3 input recordings
  - Support 1×4K@60, 2×4K@30, 1×4K@30+2×2K@60, 4×2K@60
  - For 2K@60 recording, manually set input source to 2K
  - High disk speed required; use external HDD
- New: Long press Menu 3s to lock/unlock screen
- New: Layer cropping function
- Fixed: Flashing in analog PGM on some devices
- Fixed: Abnormal display of transparent foreground images

## **mini max Version 2.23 | Updated January 2026**

### Key Optimizations & New Features:

- New: Web UI control
  - No PVW/PGM preview in web UI
  - Background/foreground not supported temporarily
  - Same LAN: scan QR code on IP settings to enter web UI
- New: Default background and foreground images
  - Foreground does not support transparent images temporarily
- New: Fan page shows temperature
- Fixed: Stream URL editing and ON AIR status display
- Fixed: Recording failure after disk reconnection
- Fixed: PGM output abnormal if custom frame rate >60
- Optimized: Rare no- signal issue at boot (IN1/IN2, PST/PGM)

## **mini max Version 2.18 | Updated December 2025**

### Key Optimizations & New Features:

- New: Custom output resolution
  - Width: 800–3840, Height: 600–2160, Frame rate: 25–120
- Fixed: Insufficient encoding frame rate
- Optimized: NDI decoding stability; no blackout after long use

## **mini max Version 2.14 | Updated December 2025**

### Key Optimizations & New Features:

- New: Background & foreground image overlay
  - Auto- create folders: F:\mini- max\background etc.
  - Use PNG 24bit up to 3840×2160; name back1/fore1...
  - PST/PGM share 1 background and 1 foreground
  - Transparent images not supported temporarily
- New: IN1/IN2 HDMI EDID management
  - Custom resolution 800×600 to 3840×2160, 25–120fps
  - Reduce output resolution if PST/PGM flashes
- New: Use largest partition for recording on multi- partition disk
- New: Advanced settings for MIC1/MIC2/LINE IN analog audio
- Fixed: Recorded video not playing on default macOS/Windows players
  - Note: 4K@60 encoding limited to ~54fps; pending optimization
- Fixed: No audio from some UVC cameras (e.g., Insta360)

## **mini max Version 2.10 | Updated November 2025**

### Key Optimizations & New Features:

- New: IN5/IN6 support UVC and NDI decoding
  - Decode H.264 up to 4K@30
  - NDI decoding supports H.264 NDI HX3
  - IN6 reuses original "overlay" key
- New: IN5/IN6 audio settings in AUDIO menu

- New: 4- channel PTZ shortcut control
  - Tap IN1–IN4 windows (yellow highlight), ZOOM/remote control PTZ
- New: 4K@60 streaming and NDI HX3 encoding output
  - Up to 4 streaming addresses; max 32Mbps
  - Import streams via U disk: MINI\_MAX\_RTMP.ini in root
  - After adding UVC/NDI, use 4K@30 or lower encoding
- New: 4K@60 recording
- New: 4K@30 output resolution
- New: Chinese language option in menu
- Fixed: PST/PGM source buttons unresponsive on CUT