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### 1. Introduction

SmartMix Director AI is an intelligent camera switching assistant for vMix. Designed for podcasts, panels, interviews, and multi-mic discussions, it detects live microphone activity, analyzes dialogue patterns, and automatically switches to the most relevant speaker using advanced AI learning.

### 2. System Requirements

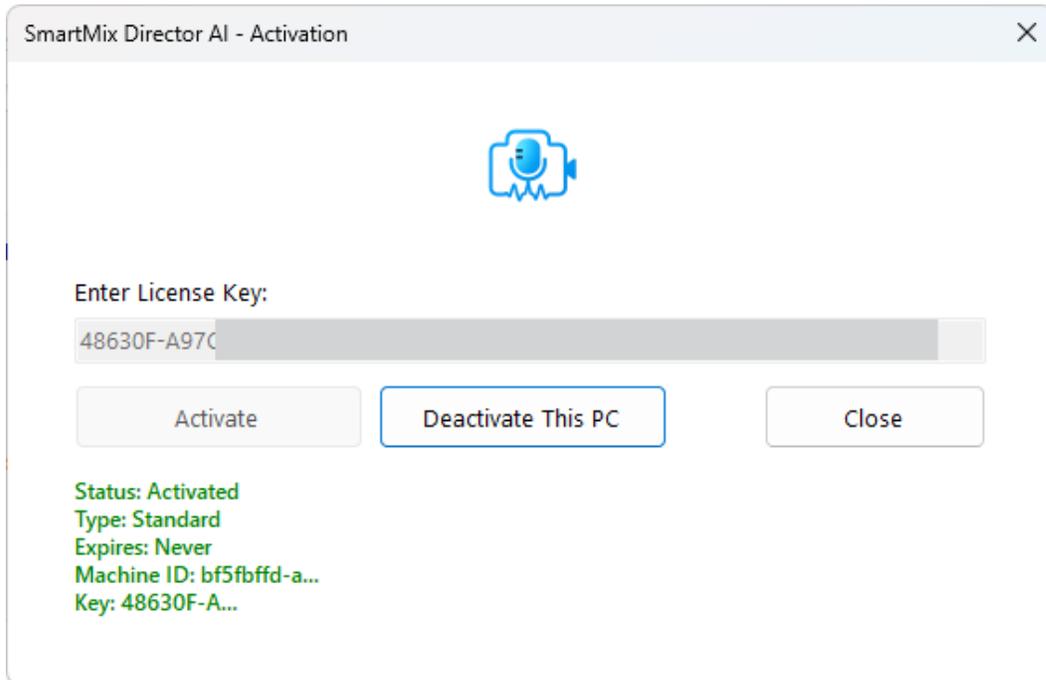
- Operating System: Windows 10 or 11 (64-bit)
- RAM: Minimum 8GB (16GB recommended)
- CPU: Intel i5 or better (multicore recommended)
- vMix: Version 25 or higher
- .NET 6 Runtime (installed automatically)

### 3. Installation Instructions

1. Download and run the SmartMix Director AI installer.
2. Launch the application. The splash screen will appear.
3. On first launch, you will be prompted to activate your license.



## 4. Licensing & Activation



Example Screenshot:

SmartMix supports three license modes:

- Trial: 7-day full-featured access. Auto-switching, AI, and all sliders are available.
- Lite: Limited to 3 microphones. AI Learning and Advanced Settings are disabled.
- Standard: Unlimited microphones, full access to all AI features, auto-learning, and custom profiles.

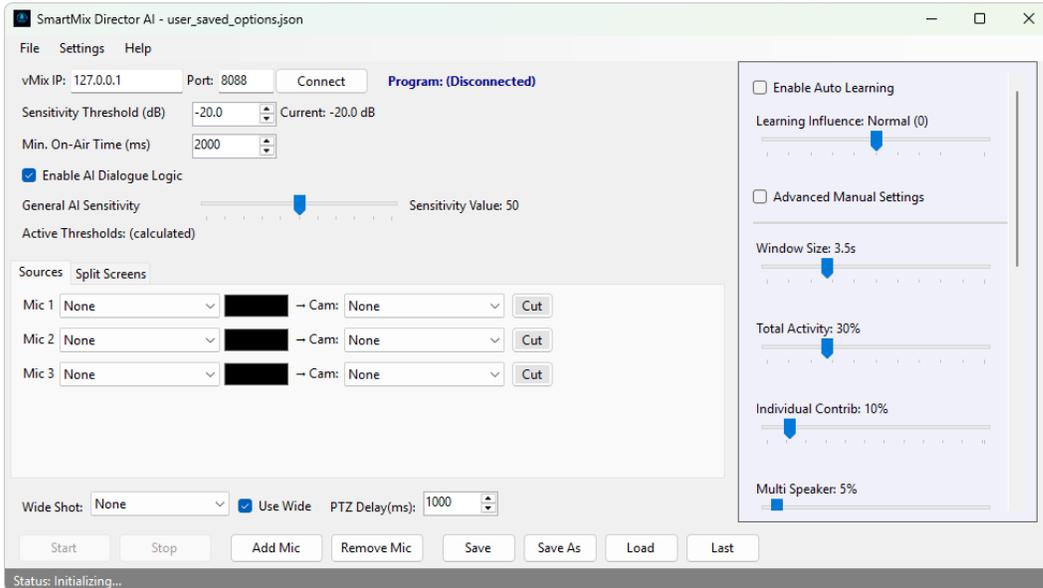
Licenses are managed securely using Keygen. Your license is validated online on each startup.

To activate:

1. Launch the app and wait for the splash screen.
2. Enter your license key when prompted.
3. The app will verify it with the server and save the activation locally.
4. If successful, you'll be taken to the Main Interface.



## 5. Getting Started



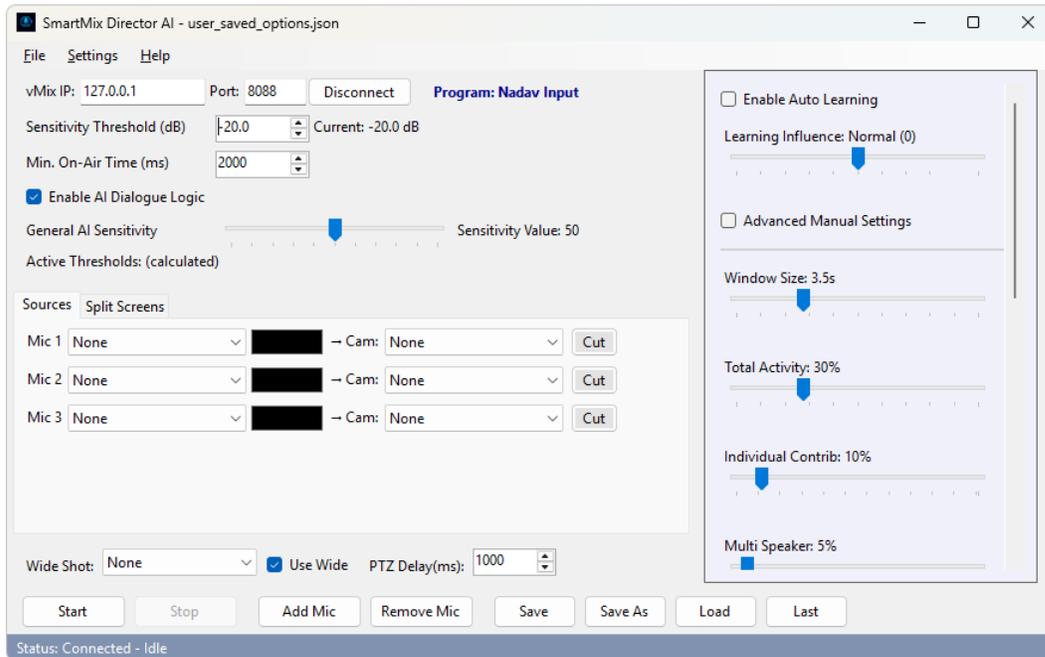
Example Screenshot:

After launching the app:

1. Connect to vMix by entering its IP and Port.
2. Press 'Connect' to fetch live microphone and input data.
3. Add microphone rows using the '+' button and assign cameras.
4. Press 'Start' to begin automatic switching.



## 6. Main Interface Overview



Example Screenshot:

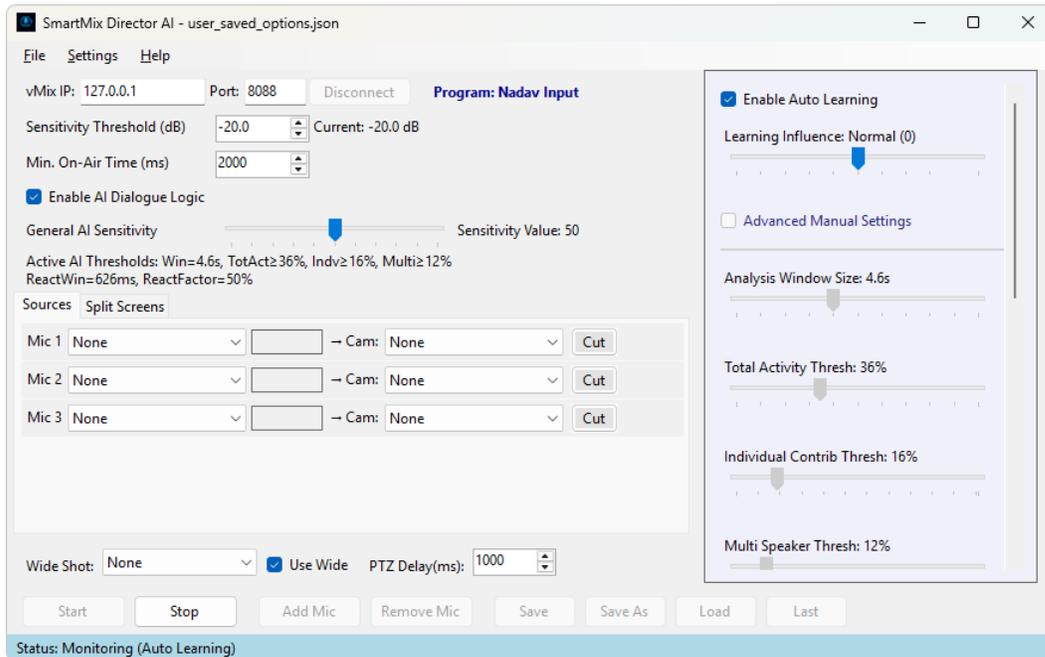
- Top Panel: vMix connection, threshold settings, dialogue detector toggle.
- Tabs: 'Mics' for individual mic-camera assignments; 'Splits' for custom layouts.
- Advanced Learning Panel: On the right, showing real-time editable AI settings.
- Status Bar: Displays connection state and active mode.

## 7. Configuring Microphones & Cameras

Each mic row allows mapping a microphone to a vMix input. Manual 'Cut' buttons allow testing switching behavior. PTZ cameras can be mapped with source and target inputs.



## 8. Using AI Dialogue Detection



Example Screenshot:

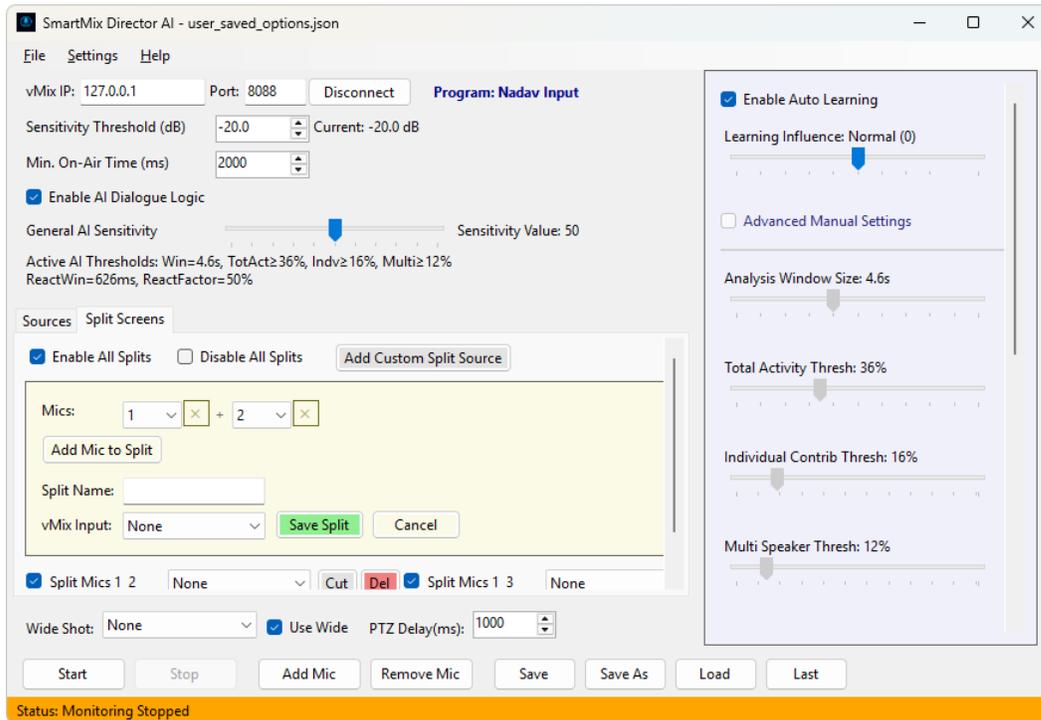
Enable 'Dialogue Detector' to let AI identify who is speaking based on:

- Microphone activity history
- Speaker dominance
- Multi-speaker overlaps
- Reaction timing

Sensitivity can be adjusted via slider or via advanced parameters.



## 9. Advanced Learning Panel Settings



Example Screenshot:

The Advanced Learning Panel (right side of the window) lets you fine-tune AI switching behavior.

Each slider has a tooltip with explanations. Here's how each setting affects the automatic switching:

- **Window Size (s)**: Defines how far back in time the system looks to analyze dialogue.
- **Total Activity Threshold**: Minimum overall mic activity for dialogue to be considered.
- **Individual Contribution**: If a speaker's mic is too quiet or short, it won't be counted as dominant.
- **Multi-Speaker Threshold**: If several mics are active simultaneously, this sets how sensitive AI is to consider it a split-screen-worthy moment.

Additional Controls:

- **Auto Learning**: When enabled, thresholds adapt based on observed usage.
- **Reaction Window (ms)**: Time allowed for recognizing quick turn-taking between speakers.
- **Reaction Min On-Air %**: How much of that window must be active to count as a "reaction".



- **Learning Influence**: Controls how much recent data affects learning (can be reduced or amplified).

## 10. Creating and Managing Split Screens

Use the 'Splits' tab to enable default layouts or define custom splits. You can assign which microphones appear in each split and link them to vMix inputs. Splits can be saved and reused.

## 11. PTZ Camera Controls and Wide Shot Setup

You may assign a Wide Shot camera input. PTZ movement delay can be set to avoid early cuts. Virtual PTZ sources can be linked to a physical source.

## 12. Saving, Loading, and Managing Configurations

Config files (\*.json) are saved to your LocalAppData folder.

You can:

- Save current settings
- Load defaults or previous sessions
- Manage multiple profiles

## 13. Profile Management

Each user profile can store:

- Mic/cam mappings
- Split screen definitions
- Learning thresholds
- Advanced settings preferences



## 14. Troubleshooting

If SmartMix does not respond:

- Check vMix API port and IP
- Make sure microphone names match vMix inputs
- Review license status under Help → License Info
- Review logs under %LocalAppData%\SmartMixDirector\

## 15. Contact & Support Information

For support, contact: [aiwSmartMixDirector@gmail.com](mailto:aiwSmartMixDirector@gmail.com)

Official website: <https://smartmixdirector.framer.website>

# SmartMix Director AI

Automated Camera Switching Powered by AI and Real-Time Microphone Activity.

Version 1.0.5

Contact Support: [aiwSmartMixDirector@gmail.com](mailto:aiwSmartMixDirector@gmail.com)

