

# New Features Added to Human Blur Tool

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## Overview

Two new options have been successfully added to the Human Blur Tool GUI to provide users with more control over their output files:

1. **Audio Handling Option** - Choose whether to keep or remove audio from video files
  2. **Custom Filename Suffix** - Specify a custom suffix for output filenames
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## 1. Audio Handling Option

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### Description

Users can now choose whether to keep or remove audio from processed video files. This is particularly useful when:

- You want to create silent videos for privacy reasons
- The audio contains sensitive information that should be removed
- You need smaller file sizes (removing audio reduces file size)
- You're creating content for specific platforms that don't require audio

### Location in GUI

Found in the **Output Settings** section, below the filename suffix field.

### How to Use

- **Checkbox Label:** “ Keep audio in output videos (requires ffmpeg)”
- **Default:** Checked (audio is kept by default)
- **Action:**
- **Checked:** Audio will be preserved in the output video (requires ffmpeg to be installed)
- **Unchecked:** Audio will be removed from the output video

### Technical Details

- Requires ffmpeg to be installed on the system for audio extraction and merging
- If ffmpeg is not available, a warning message will be displayed
- Audio is extracted before processing and merged back after video processing is complete
- Works for both single file and batch folder processing

### Example Output

- With audio: `video.mp4` → `video-background.mp4` (with audio)
  - Without audio: `video.mp4` → `video-background.mp4` (silent video)
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## 2. Custom Filename Suffix

### Description

Users can now customize the suffix that gets appended to output filenames instead of using the default `-background` suffix. This allows for:

- Better organization of processed files
- Meaningful naming conventions for different processing types
- Easier identification of processed files in large batches

### Location in GUI

Found in the **Output Settings** section, above the audio handling checkbox.

### How to Use

- **Field Label:** "Filename suffix:"

- **Default Value:** `-background`

- **Input Type:** Text field

- **Example Values:**

- `-background` (default)

- `-blurred`

- `-processed`

- `-censored`

- `-privacy`

- Any custom text you prefer!

### Technical Details

- The suffix is appended before the file extension
- Works for both images and videos
- Works for both single file and batch folder processing
- Supports all special characters that are valid in filenames
- The suffix is remembered during the session

### Example Outputs

Original File	Custom Suffix	Output File
photo.jpg	<code>-background</code>	photo-background.jpg
photo.jpg	<code>-blurred</code>	photo-blurred.jpg
video.mp4	<code>-processed</code>	video-processed.mp4
image.png	<code>-privacy</code>	image-privacy.png
IMG_1234.HEIC	<code>-censored</code>	IMG_1234-censored.jpg

## GUI Layout

The new **Output Settings** section appears after the **Advanced Settings** section and contains:



## Code Changes Summary

### Files Modified

#### 1. `gui_enhanced.py`

- Added two new GUI variables: `keep_audio` and `filename_suffix`
- Created new “Output Settings” section with:
  - Text entry field for custom filename suffix
  - Checkbox for audio handling
- Updated processor initialization to pass new parameters
- Updated output path generation to use custom suffix
- Updated help documentation to explain new features
- Updated batch processing completion message to show custom suffix

#### 2. `blur_humans.py`

- Updated `HumanBlurProcessor.__init__()` to accept:
  - `filename_suffix` parameter (default: `-background`)
  - `keep_audio` parameter (default: `True`)
- Modified `process_image()` to use custom filename suffix
- Modified `process_video()` to:
  - Use custom filename suffix
  - Respect the `keep_audio` setting
  - Display appropriate messages based on audio handling choice

## Usage Examples

### Example 1: Keep Audio with Custom Suffix

- Select a video file
- Set filename suffix to: `-privacy`
- Keep audio checkbox: **Checked**
- Process the video

5. Result: `video-privacy.mp4` (with audio)

## Example 2: Remove Audio with Custom Suffix

1. Select a video file
2. Set filename suffix to: `-silent`
3. Keep audio checkbox: **Unchecked**
4. Process the video
5. Result: `video-silent.mp4` (without audio)

## Example 3: Batch Processing with Custom Settings

1. Select a folder containing multiple videos
  2. Set filename suffix to: `-blurred`
  3. Keep audio checkbox: **Checked**
  4. Click “Process Media”
  5. Result: All videos processed with `-blurred` suffix and audio preserved
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## Benefits

### For Users

- **More Control:** Fine-tune output files to match specific needs
- **Better Organization:** Use meaningful suffixes for different processing batches
- **Privacy Options:** Remove audio when needed for sensitive content
- **Flexibility:** Works seamlessly with all existing features

### For Workflows

- **Professional Use:** Create standardized naming conventions
  - **Batch Processing:** Process large folders with consistent settings
  - **Storage Management:** Remove audio to save disk space when not needed
  - **Quality Assurance:** Easily identify which processing settings were used
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## Backward Compatibility

All changes are backward compatible:

- Default suffix is still `-background`
  - Audio is kept by default (existing behavior)
  - All existing features work unchanged
  - CLI tool maintains original functionality
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## Requirements

- **Audio Handling:** Requires ffmpeg to be installed for audio preservation
- Install on Linux: `sudo apt-get install ffmpeg`
- Install on Mac: `brew install ffmpeg`

- Install on Windows: Download from [ffmpeg.org](https://ffmpeg.org) (<https://ffmpeg.org/>)
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## Future Enhancements

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Possible future improvements:

- Save custom suffix preferences between sessions
  - Preset suffix templates
  - Audio format options (MP3, AAC, etc.)
  - Audio quality settings
  - Output directory selection
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## Support

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For questions or issues, contact: [apps@globalemancipation.ngo](mailto:apps@globalemancipation.ngo)

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**Version:** 3.0 (Enhanced with Audio Handling and Custom Filename Suffix)

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