

# GUI Layout Preview - New Features

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## Complete GUI Layout with New Features

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[Logo] Human Blur Tool v3.0  
AI-Powered Privacy Protection **for** Images & Videos

☐ Input Selection

Select file or folder to process:  
[ ] [Browse File] [Browse Folder]

Folder media filter:  
☒ Both ☐ Images Only ☐ Videos Only

☐ Processing Mode

☐  Black Mask (Recommended **for** maximum privacy)  
☐  Blur (Intelligent contour-following blur)

☐ Blur Settings (Blur Mode Only)

Intensity: [ ] 151  
Passes: [3] (More passes = stronger blur)

☐ Advanced Settings

Confidence: [ ] 0.50  
Model: [yolov8n-seg.pt (Fastest)]

☐ Output Settings

Filename suffix: [-background ]  
(e.g., [-background ], [-blurred ], ...)

☒  Keep audio **in** output videos (requires ffmpeg)  
(Uncheck to remove audio from videos)


☒ Process Media [?] Help

☐ Processing Progress

Processing: photo.jpg  
Current file: [ ]  
Overall progress: [ ] 45%  
Status: Ready to process media files


## New “Output Settings” Section - Detailed View

Output Settings

 Custom Filename Suffix

Filename suffix: [-background\_\_\_\_\_] ← Text Input  
(e.g., '-background', '-blurred', '-processed')

- Default: "-background"
- Examples: "-privacy", "-censored", "-anonymous"
- Applies to both images and videos
- Used in both single file and batch processing

 Audio Handling (Videos Only)

☒ Keep audio in output videos (requires ffmpeg) ← Checkbox  
(Uncheck to remove audio from videos)

- Default: Checked (audio preserved)
- Requires ffmpeg to be installed
- Only affects video files
- Uncheck to create silent videos

## Before vs After - File Output Examples


### Example 1: Image Processing

Before (original behavior):  
input.jpg → input-background.jpg


After (with custom suffix "-privacy"):  
input.jpg → input-privacy.jpg


### Example 2: Video with Audio (default)

Before:  
video.mp4  video-background.mp4 (with audio)


After (same **default** behavior):  
video.mp4  video-background.mp4 (with audio)


### Example 3: Video without Audio (new option)

Before:  
`video.mp4`  `video-background.mp4` (always **with** audio **if** present)

After (audio checkbox unchecked):  
`video.mp4`  `video-background.mp4` (audio removed)

### Example 4: Custom Suffix + No Audio


Before:  
`presentation.mp4`  `presentation-background.mp4` (**with** audio)

After (suffix="**-anonymous**", audio unchecked):  
`presentation.mp4`  `presentation-anonymous.mp4` (no audio)

## Interactive Elements Detail

### 1. Filename Suffix Text Field

Filename suffix:

 User can **type** custom suffix here

Default: **"-background"**

Validation: None (user responsible)

Max length: ~50 characters (reasonable)

Tooltip: Shows example values

### 2. Audio Handling Checkbox

[✓] Keep audio in output videos (requires ffmpeg)

↑  
 Checked = Keep audio (default)  
 Unchecked = Remove audio

State: Boolean (True/False)  
 Effect: Only applies to video files  
 Requirement: ffmpeg must be installed **for** audio

## User Interaction Flow

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### Flow 1: Using Custom Suffix

1. User **opens** GUI
2. User clicks in "Filename suffix" field
3. User deletes "-background"
4. User types their custom suffix (e.g., "-privacy")
5. User selects file/folder
6. User clicks "Process Media"
7. Output files have custom suffix: "file-privacy.jpg"

### Flow 2: Removing Audio from Video

1. User **opens** GUI
2. User selects a video file
3. User unchecks "Keep audio in output videos"
4. User clicks "Process Media"
5. Video is processed
6. Console shows: "Audio removal requested - output will have no audio"
7. Output video has no audio track

### Flow 3: Batch Processing with Custom Settings

1. User **opens** GUI
2. User clicks "Browse Folder"
3. User sets "Filename suffix" to "-batch-processed"
4. User unchecks "Keep audio in output videos"
5. User clicks "Process Media"
6. All files in folder are processed with:
  - Custom suffix: "-batch-processed"
  - No audio in videos
7. Progress shows: "Processing [5/20] video-batch-processed.mp4"

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## Settings Persistence During Session

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### What is Remembered

During a single session (GUI open):

- ✓ Filename suffix → Kept between different file selections
- ✓ Audio handling → Kept between different file selections
- ✓ All other settings → Kept as before


After closing and reopening:

- ✗ Filename suffix → Returns to default "-background"
  - ✗ Audio handling → Returns to default (checked)
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## Visual Design Notes

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### Color Scheme

- Labels: Default text color
- Input fields: Standard entry background
- Help text: Gray color (less prominent)
- Icons: Emoji for visual appeal (🔊, )

### Layout Principles

- Consistent spacing with other sections
- Clear visual hierarchy
- Helpful contextual information
- No clutter, clean design

### Accessibility

- Clear labels for screen readers
- Logical tab order
- Keyboard accessible
- Visual feedback on interaction

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## Error Messages and Warnings

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### When ffmpeg is not installed

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Console output:  
"⚠ ffmpeg not available - audio will not be preserved"  
"i Install ffmpeg to enable audio preservation"
```

### When audio checkbox is unchecked

```
Console output:  
"i Audio removal requested - output will have no audio"
```

### When custom suffix is empty

```
Behavior: Uses empty suffix (filename has no suffix)  
Example: input.jpg → input.jpg (may overwrite!)  
Note: No validation currently implemented
```

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## Responsive Behavior

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### Window Resize

- GUI is non-resizable (fixed size)
- All elements maintain position

- No overlap or clipping issues

## With/Without Logo

- If logo not found: Text layout adjusts
- Title and subtitle remain visible
- No crash or error

## Integration with Existing Features

### Works With:

- ✓ Single file processing (images and videos)
- ✓ Batch folder processing
- ✓ All mask types (Black and Blur)
- ✓ All model selections
- ✓ All confidence levels
- ✓ Media type filters (Both, Images Only, Videos Only)

### Does Not Affect:

- ✓ Detection confidence
- ✓ Blur intensity and passes
- ✓ Model selection
- ✓ Processing speed
- ✓ Output quality

## Quick Reference Card

**HUMAN BLUR TOOL - OUTPUT SETTINGS**

**Filename Suffix**


- Customize output file names
- Default: **"-background"**
- Examples: **"-privacy"**, **"-blurred"**, **"-censored"**
- Works with all file types

**Audio Handling (Videos)**

- Keep: ☒ (**default**) - Preserves audio
- Remove: ☐ - Creates silent video
- Requires: ffmpeg installed
- Only **for**: Video files (.mp4, .mov)

## Screenshots (Conceptual)

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```
[Input Selection Section]
↓
[Processing Mode Section]
↓
[Blur Settings Section (conditional)]
↓
[Advanced Settings Section]
↓
[OUTPUT SETTINGS SECTION] ← NEW! 
↓
[Action Buttons]
↓
[Processing Progress Section]
```

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**Note:** This is a conceptual preview. The actual GUI will render with native tkinter widgets and may have slight visual differences depending on the operating system theme.

**To see the actual GUI:** Run `python gui_enhanced.py` after installing dependencies.