

# Human Blur Tool - GUI Layout Redesign Summary

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**Date: November 19, 2025**

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## Problem Statement

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The previous GUI layout had critical visibility issues:

1. Output Settings section was barely visible at the bottom
2. Process Media button was not visible (cut off)
3. No scrolling capability
4. Window was too tall for standard screens (950x700 fixed size)

## Solution Implemented

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### 1. New 2-Column Layout

Reorganized all settings sections into a compact 2x2 grid:

**Row 1:**

- Left: Processing Mode (Black Mask / Blur selection)
- Right: Blur Settings (Intensity & Passes)

**Row 2:**

- Left: Advanced Settings (Confidence & Model selection)
- Right: Output Settings (Filename suffix & Audio options)

### 2. Progress Section Enhancement

Redesigned progress section with 2-column layout:

- **Left Column:** Individual File Progress
  - Shows current file being processed
  - Indeterminate progress bar for single file
- **Right Column:** Overall Progress (Batch)
  - Shows percentage completion (0-100%)
  - Determinate progress bar for batch processing

### 3. Window Resizability

- **Initial size:** 1000x720 (compact and fits standard screens)
- **Minimum size:** 950x650 (prevents excessive shrinking)
- **Resizable:** Users can expand horizontally and vertically
- All widgets properly expand/contract with window resizing

### 4. Layout Optimization

- Reduced padding from 10px to 8px in all sections
- Reduced vertical spacing between sections (8px → 6px)
- Optimized header and separator spacing

- Used grid layout manager with proper weight configuration

## 5. Logo Integration

- Added GEN logo (logo.png) to project directory
- Logo displays in top-right corner (80x80px)
- Maintains proper aspect ratio

## Technical Changes

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**File Modified:** `gui_enhanced.py`

**Key Code Changes:**

### 1. Window Configuration:

```
self.root.geometry("1000x720")
self.root.minsize(950, 650)
self.root.resizable(True, True)
```

### 1. Grid Layout with Weights:

```
content_frame.columnconfigure(0, weight=1)
content_frame.columnconfigure(1, weight=1)
content_frame.rowconfigure(1, weight=1)
content_frame.rowconfigure(2, weight=1)
```

### 1. 2-Column Progress Layout:

```
progress_frame.columnconfigure(0, weight=1)
progress_frame.columnconfigure(1, weight=1)
# Left: Individual File Progress
# Right: Overall Progress (Batch)
```

### 1. New Methods Added:

- `update_overall_label()` : Updates overall progress percentage display

## Results

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### ✓ All Issues Resolved

- ✓ All sections now visible without scrolling
- ✓ Process Media button fully visible and accessible
- ✓ Output Settings fully visible and functional
- ✓ Window fits on standard screens (even at minimum size)

### ✓ Additional Improvements

- ✓ More intuitive 2-column layout
- ✓ Better use of screen space
- ✓ User flexibility with resizable window
- ✓ Cleaner, more professional appearance
- ✓ Logo integration

-  Improved progress tracking visibility

## Testing Results

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1. **Initial Display:** All sections visible at default size (1000x720)
2. **Resize Larger:** Layout expands properly, maintains proportions
3. **Resize Smaller:** Minimum size enforced (950x650), prevents excessive shrinking
4. **Functionality:** All existing features work correctly with new layout

## User Experience Improvements

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### Before:

- Users had to scroll or resize to see all controls
- Process Media button often hidden
- Confusing vertical stack layout

### After:

- All controls visible at default size
- Efficient use of horizontal space
- Clear logical grouping in 2x2 grid
- Intuitive progress section layout
- Flexible resizing for different screen sizes

## Files Modified

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1. `gui_enhanced.py` - Main GUI file with new layout
2. `logo.png` - Added GEN logo to project

## Backwards Compatibility

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- All existing functionality preserved
- Same parameter handling
- Same processing logic
- Only layout/presentation changed

## Recommendations for Future

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1. Consider adding keyboard shortcuts for common actions
  2. Add tooltip help for each setting
  3. Consider saving user's window size preference
  4. Add theme customization options
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**Layout Redesign: COMPLETE** 

All visibility issues resolved. GUI is now compact, flexible, and user-friendly!