

Human Blur Tool - GUI Layout Comparison

Before & After: Visual Layout Analysis

● BEFORE - Issues with Original Layout

Layout Structure:

Header + Logo	
Input Selection (Full Width)	
Processing Mode (Full Width)	
Blur Settings (Full Width)	
Advanced Settings (Full Width)	
Output Settings (Full Width)	⚠ BARELY VISIBLE
Process Media Button	✗ CUT OFF
Progress Section	✗ NOT VISIBLE

Problems:

- ✗ Window too tall (950x700 fixed)
- ✗ Output Settings barely visible
- ✗ Process Media button cut off
- ✗ Progress section not visible
- ✗ No scrolling capability
- ✗ Not resizable
- ✗ Wasted horizontal space
- ✗ Poor screen utilization

✓ AFTER - Improved 2-Column Layout

Layout Structure:

Header + Logo (Right Corner)	
Input Selection (Full Width)	
<input type="button" value="Browse File"/> / <input type="button" value="Browse Folder"/>	
Media Type Filter: <input type="button" value="Both"/> <input type="button" value="Images"/> <input type="button" value="Videos"/>	
Processing Mode	Blur Settings (Blur Mode Only)
<input type="checkbox"/> Black Mask	<input type="checkbox"/> Intensity: [===] 151
<input type="checkbox"/> Blur	<input type="checkbox"/> Passes: [3] (More = stronger)
Advanced Settings	Output Settings
<input type="checkbox"/> Confidence: [==]	<input type="checkbox"/> Filename suffix: [-background]
<input type="checkbox"/> Model: [dropdown]	<input checked="" type="checkbox"/> Keep audio in output videos
[🚀 Process Media] [? Help]	
Processing Progress	
Individual File Progress:	Overall Progress (Batch)
[=====]	0%
[=====]	[=====]
Status: Ready to process media files	

Improvements:

- ✓ Compact size (1000x720 default)
- ✓ All sections visible without scrolling
- ✓ Efficient 2x2 grid for settings
- ✓ 2-column progress section
- ✓ Resizable (950x650 minimum)
- ✓ Better horizontal space usage
- ✓ Cleaner, more professional
- ✓ All buttons visible
- ✓ Logo integrated

Layout Comparison Table

Feature	Before	After
Window Size	950x700 (fixed)	1000x720 (resizable)
Minimum Size	None (fixed)	950x650
Resizable	✗ No	✓ Yes
Settings Layout	Vertical stack	2x2 grid
Progress Layout	Vertical stack	2-column side-by-side
Output Settings Visible	✗ Barely	✓ Fully visible
Process Button Visible	✗ Cut off	✓ Fully visible
Progress Section Visible	✗ No	✓ Yes
Horizontal Space Usage	Poor	Excellent
Screen Fit	Too tall	Perfect fit
Scrolling Required	Would help but not available	Not needed
Padding	10px	8px (optimized)
Logo	✓ Yes	✓ Yes (optimized)

Technical Implementation Comparison

Grid Configuration

Before:

```
# Single column layout
input_section.pack(fill=tk.X)
mask_section.pack(fill=tk.X)
blur_section.pack(fill=tk.X)
advanced_section.pack(fill=tk.X)
output_section.pack(fill=tk.X) # Often cut off
```

After:

```
# 2-column grid layout
content_frame.columnconfigure(0, weight=1)
content_frame.columnconfigure(1, weight=1)

# Row 0: Input Selection (full width)
input_section.grid(row=0, column=0, columnspan=2, sticky="ew")

# Row 1: Processing Mode | Blur Settings
mask_section.grid(row=1, column=0, sticky="nsew")
blur_section.grid(row=1, column=1, sticky="nsew")

# Row 2: Advanced Settings | Output Settings
advanced_section.grid(row=2, column=0, sticky="nsew")
output_section.grid(row=2, column=1, sticky="nsew")

# Row 3: Action Buttons (full width)
action_frame.grid(row=3, column=0, columnspan=2, sticky="ew")

# Row 4: Progress Section (full width, internal 2-column)
progress_frame.grid(row=4, column=0, columnspan=2, sticky="ew")
```

Progress Section Enhancement

Before:

```
Processing Progress
=====
Current file: [filename]
[=====] Individual Progress
Overall progress:
[=====] Overall Progress
Status: Ready
```

After:

```
Processing Progress
=====
[ ] Individual File Progress: [ ] Overall Progress (Batch): [ ]
[ ] [1/10] photo.jpg [ ] 10% [ ]
[ ] [=====] [ ] [=====] [ ]
=====
Status: Ready to process media files
```

Benefits:

- ✓ Side-by-side view of both progress indicators
- ✓ Clear labels for each progress type
- ✓ More intuitive for batch processing
- ✓ Better space utilization

User Experience Impact

Visibility Issues Resolved:

1. **✓ Output Settings:** Now prominently visible in right column of Row 2
2. **✓ Process Media Button:** Fully visible with proper spacing
3. **✓ Progress Section:** Clearly visible with enhanced 2-column layout
4. **✓ All Controls:** Accessible without scrolling

Workflow Improvements:

1. **Logical Grouping:** Related settings are grouped together
2. **Visual Balance:** 2x2 grid creates symmetrical, professional appearance
3. **Flexibility:** Resizable window adapts to user preferences
4. **Efficiency:** Better use of screen real estate

Accessibility:

- **✓** All controls reachable
 - **✓** No hidden elements
 - **✓** Clear visual hierarchy
 - **✓** Intuitive navigation
-

Summary of Changes

Window Management:

- Changed from fixed 950x700 to resizable 1000x720
- Added minimum size constraint (950x650)
- Enabled both horizontal and vertical resizing

Layout Architecture:

- Migrated from vertical stack to 2-column grid
- Implemented 2x2 grid for middle sections
- Created 2-column progress section

Spacing Optimization:







- Reduced padding: 10px → 8px
- Reduced vertical gaps: 8px → 6px
- Optimized header spacing

Visual Enhancements:

- Better horizontal space utilization
 - Cleaner section boundaries
 - Professional appearance
 - Logo properly integrated
-

Conclusion

The GUI redesign successfully addresses all reported visibility issues while improving overall user experience. The new 2-column layout is:

-  **Compact:** Fits on standard screens
-  **Complete:** All sections visible
-  **Flexible:** Resizable for user preference
-  **Efficient:** Better space utilization
-  **Professional:** Clean, modern appearance
-  **Functional:** All features fully accessible

The layout redesign is complete and ready for use! 🎉