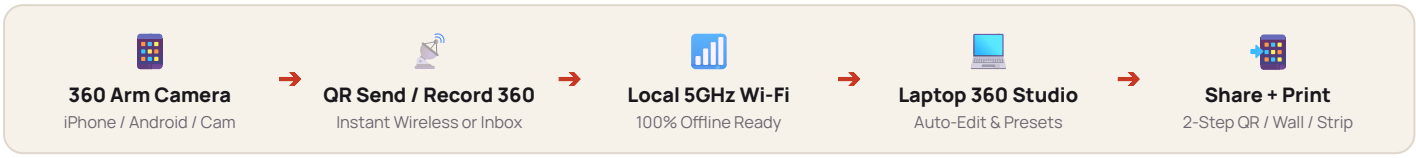
360 VIDEO BOOTH SYSTEM ARCHITECTURE

Run a 360 Video Booth with photobooth4u

Record the spin with the camera on your 360 arm, beam it wirelessly to the laptop 360 Studio for instant slow motion, ready-made designer edits, and music, then deliver to guests via 2-step QR, TV Live Wall, or Spin & Print.



📦 Required Hardware Checklist

- **1. 360 Platform & Arm:** Any motorized or manual 360 spinner carrying an iPhone, Android phone, iPad, or camera. Start the arm with its own remote or switch.
- **2. Laptop Base Station:** Windows 10/11 or macOS running the **photobooth4u Desktop App**. *(All ready edits, slow-mo rendering, frames, and music run inside the laptop app; the website shares clips as recorded up to 28 MB.)*
- **3. Built-in 5GHz Booth Wi-Fi:** Turn on **"Make this laptop the booth Wi-Fi"** in **Setup → Share & start** (Windows & Mac), or use a compact 5GHz booth router / OS Mobile Hotspot (no internet needed).
- **4. Optional Crowd Screens & Printer:** Spare iPad/tablet for the **Sharing Station**, TV/projector for the **Live Wall**, dye-sub/thermal printer for **Spin & Print**, and a Bluetooth selfie clicker.

🎥 Recording & Frame Rate Settings

- **Best Quality & FPS:** Set the recording phone/camera to **1080p at 60 fps** (smooth 0.5× slow-mo) or **120 fps** (0.25× super slow-mo). High-FPS clips render real slow-motion frames fast with no interpolation wait.
- **Hold Portrait (9:16):** Mount the phone upright for TikTok, Reels, and Stories. The studio can also crop to Square (`1:1`) or Landscape (`16:9`).
- **Lock Focus & Exposure:** Tap and hold on the guest in the center of the platform before spinning so brightness does not flicker.
- **Clip Duration (8–15 s):** One full rotation is ideal. Shorter clips render in seconds and save guest download time.

3 Ways to Get 360 Clips Into the Laptop 360 Desk

Capture Method	How to Set It Up	Best For & Pro Tip
1. Phone QR Send Page RECOMMENDED	Open **360 desk** on the laptop and scan the QR code with the arm's iPhone/Android (on booth Wi-Fi). Tap **Record now** or **Choose a video**.	Save the send page to the phone's Home Screen (**360 Send**) for 2-tap recording all event. Supports Guest Look Choice directly on the phone after upload.
2. Record 360 Dock Screen ANDROID & LAPTOP APP	Open **Extras → Record 360**. On an arm-mounted Android phone/tablet, tap **Scan QR** to pair with the 360 Desk in 1 second (address stays steady across restarts). Pick **6–15 s** and start trigger.	Supports **With the button**, **When the arm moves** (accelerometer Low/Med/High), **When someone steps in**, or a **Bluetooth clicker**, plus **Insta360 Ace Pro**, UVC webcams & HDMI capture cards on laptop.
3. 360 Inbox Folder Watcher AIRDROP / CABLE / FTP	Save or drop MP4/MOV clips into `Pictures\photobooth4u\360 inbox` (or drag onto the desk / pick another folder via **Change folder**).	**Smart Inbox Watcher** verifies file size stability before queueing so slow SD card transfers, AirDrop, or camera Wi-Fi FTP never cause cut-off renders.

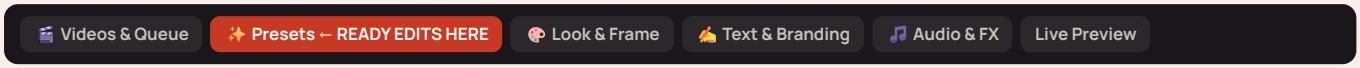
🕯 **Always Check 🕯 Connect First:** At the top of the 360 Desk, click **Test** inside the **Connect** panel. It verifies the video editor, inbox folder & free disk space, local Wi-Fi IP address, guest Wi-Fi QR, and last received clip in one click.

QUICK ANSWER · WHERE TO FIND "READY EDIT"

Ready-Made Edits (✨ Presets) & One-Switch Auto Mode

Yes — photobooth4u comes with **30 built-in Designer Presets** (complete ready-made looks with frame, animated effects, typography, speed, and color grade) plus **8 motion presets** ready out of the box.

📍 Where to See & Use the Ready Edits (Step-by-Step)



1 Open 360 Desk
In the laptop app's **Photo Session**, tap **Extras** (bottom dock) → **360 desk**.

2 Click ✨ Presets
Tap ✨ **Presets** in the top header bar and filter by event category.

3 Preview Live
Watch the **Sample Demo** (or your selected clip) update live on the right panel.

4 Switch ⚡ Auto Mode
Turn on ⚡ **Auto mode** so every new video auto-edits & generates its QR automatically.

Complete Catalog: 30 Built-In Ready-Edit Designer Presets (6 Category Tabs)

Category Tab	Included Ready-Made Presets (Frame + Animated FX + Text Style + Motion + Grade)
Wedding & Debut 5 presets	🌸 **Wedding Floral & Gold** · 🤍 **White Petals Romance** · 👑 **Debut Rose Gold** · 👑 **Quinceañera Princess** · 💍 **Anniversary Gold**
Birthday & Family 6 presets	🎂 **Birthday Confetti Pop** · 🎈 **Kids Party Balloons** · ✨ **Christening Soft Blue** · 💖 **Sweet 16 Sparkle** · 🍼 **Baby Shower Pastel** · 🎀 **Gender Reveal**
Corporate & School 8 presets	✨ **VIP Gala Art Deco** · 🏅 **Classic Gold & Ribbon Band** · 🎓 **Graduation Gold** · 💼 **Corporate Clean** · 🎬 **Clean Minimalist** · ⏳ **Team Spirit** · 🚀 **Product Launch** · 🥂 **Retirement Toast**
Holidays & Seasons 6 presets	🎄 **Christmas Snow** · 🎆 **New Year Countdown** · 🎃 **Halloween Night** · ❤️ **Valentine's Romance** · 🌞 **Summer Beach** · 💐 **Mother's Day Blooms**
Nightlife & Party 5 presets	⚡ **Neon Cyberpunk Club** · 🪩 **Retro Disco** · 🖤 **Hollywood Glam B&W** · 💸 **Hype Money Rain** · 🌟 **Prom Night**
⭐ **My presets** Unlimited custom	Edit any frame, font, effect, or speed, then click 💾 **Save As Preset** to store your own reusable ready-edit template (or click 🎲 **Surprise me** to try a random look).

⚡ 8 Built-In Motion Speed Presets

- **Classic slow-mo:** Smooth 0.5× half speed with your frame & music.
- **Speed ramp:** Fast entry, slow-mo hero center, fast exit.
- **Boomerang:** First 5 seconds played forward then backward (720p).
- **Original speed:** 1× normal speed with frame & original sound.
- **Super slow-mo (0.25×):** Quarter speed (best with 60/120 fps video).
- **Fast, then slow:** First half at 2×, second half at 0.5×.
- **Fast, slow, fast:** Three beats at 2×, 0.5×, and 2×.
- **Slow-mo roller:** 1×, 0.25×, 2×, 0.5× then reversed (use clips ≤8 s).

🎬 Color Grades & ⚡ Auto Mode Controls

6 Cinematic 3D LUT Color Grades:

Natural · Glamour B&W (Kardashian style) · Blockbuster Teal & Orange · Golden Hour Warm Glow · Vibrant Pop · Vintage Film

Inside ⚡ Auto Mode (Top of ✨ Presets):

- **Look:** *Same look*, *Different each time*, or *Guest chooses*.
- **Text on video:** *None*, *My text*, or *Guest's name* only.
- **Extras:** Tick **Also make a GIF for each shared video**.
- **Manual 1-Tap:** Use ⚡ **Auto-edit this video**, ⚡ **Auto-edit all videos**, or tick **One-tap** so clicking any tile renders immediately.

PERSONALIZE ANY READY-MADE LOOK

Custom Canva Frames, Drag Text, Music & Guest Choice

Tweak any preset without leaving the Presets tab, upload custom transparent PNG overlays from Canva, synchronize slow-mo ramps to music beat drops, or let guests choose their own look.

✨ Quick Customise (Right Under ✨ Presets)

- **Accent colour:** Tap any of the 8 color swatches (Gold, White, Blush, Hot Pink, Cyan, Lime, Orange) or pick any custom hex via **Own**.
- **Motion chips:** Switch speed style in one click (Slow-mo, Super slow, Speed ramp, Fast-slow-fast, Boomerang, ▶ Original).
- **Text quick-adjust:** Snap text to ⬆ **Top**, ↕ **Middle**, or ⬇ **Bottom**, and resize with **A−** / **A+**.
- **Effect intensity:** Toggle **Off**, **Subtle**, **Normal**, **Bold**, or click **Shuffle effect** to try another particle animation.
- **Keep your own speed:** Untick *"Presets also set the speed and colour grade"* to browse frames/effects without changing your motion settings.

🎨 Look & Frame Tab (Custom PNG & Live Physics)

- **Designer frames:** Pick *Wedding Floral & Gold*, *Gilded Art Deco / Gala*, *Neon Club / Cyberpunk*, *Classic Frame & Label Band* (adjustable border color, band color & opacity), or *None*.
- **Upload Custom Frame PNG:** Export a transparent PNG/WebP overlay in Canva (`1080×1920` for 9:16 portrait, `1080×1080` square, or `1920×1080` landscape) and click **Upload Custom PNG**.
- **Effect Movement & Physics:** Choose Trajectory (*Vortex Orbit*, *Falling Cascade*, *Rising Float*, *Radial Burst*, *Beat Pulse*, *Wind Drift*), Location, Speed, Opacity, Size, and Wobble.
- **Format & Quality:** Portrait `9:16`, Square `1:1`, or Landscape `16:9`; export at `1080p`, `720p`, or `540p Light`.

✍️ Text & Event Branding (Drag-to-Position)

- **2 Independent Lines:** Line 1 (Heading / Couple Names) and Line 2 (Subtitle / Date / Hashtag), with emoji support.
- **8 Built-In Fonts:** Alex Brush, Dancing Script, Cinzel, Playfair Display, Montserrat, Bebas Neue, Oswald, and Courier Typewriter.
- **WYSIWYG Canvas Control:** Drag text anywhere directly on the **Live 360 Studio Preview** and pull the corner handle (↘) to resize, or choose presets (Top, Upper/Lower Third, Center, Bottom) and **Always on** vs. **Fade in / out**.

🎵 Music, Beat-Drop Sync & Video Stingers

- **Sound Track:** Select **Music**, **Original video sound**, or **Mute**. Click **Choose music track** for a default song, or **+ Add tracks** to assign a dedicated song to each preset look.
- **Beat-Drop Sync:** Enter a **Beat drop (s)** timestamp (or leave `Auto`) so the speed ramp, **Dynamic zoom** punch-in, and optical **Beat flash** hit on the drop.
- **Intro / Outro Stingers:** Click **+ Add intro/outro clips** to load short sponsor or logo MP4 clips, then set **Opens with** / **Ends with** inside ✨ **Presets**.

🙋 Guest Choice & Rotating Looks (Automatic Variety)

Give Each Guest a Different Look: Open 🙋 *Guest choice & rotating looks* in ✨ **Presets** and tick **Give each new video a different look**. Choose *Shuffled, no repeats* or *In list order* and toggle which preset chips are included.

Let Guests Pick on Screen or Phone: Tick **Ask the guest to pick a look when their video arrives** (10 s / 20 s / 30 s / No limit). Guests see live-rendered tiles on the booth screen—or right on the phone **360 Send** page, where they can also type their name onto the video!

Fast Rendering Tip: When your camera records at **60 fps** or **120 fps**, leave **Smoother slow motion** unticked—slow-mo renders directly from real frames in seconds. Tick **Faster video export** (when shown) to use GPU hardware encoding, and use **540p Light** on crowded booth Wi-Fi so guests download videos up to 6× faster.

EVENT OPERATIONS & FIELD REFERENCE

2-Step QR Sharing, Spin & Print, Live Wall & Troubleshooting

Share finished 360 videos with zero venue internet, print photo strips & keychains with embedded 360 video QR codes, run a separate Sharing Station & TV Live Wall, and fix common issues fast.

📲 2-Step Offline QR & Online Sharing

- **2-Step Booth Wi-Fi QR:** Enter your booth Wi-Fi name & password once in **Setup → 6 Share**. **Share + QR** shows **Step 1: Network** (auto-joins Wi-Fi with no typing) and **Step 2: Download** (opens the video immediately).
- **Dual Online & Offline:** With internet, guests use their phone's native Share sheet (TikTok, IG, WhatsApp, AirDrop). Offline, guests tap **Save video** (iPhone Safari: tap the download arrow / Share → **Save Video**).
- **One-Tap GIF & Square:** Click **GIF** (~5 s loop) or **Square** beside Share + QR to attach social-ready versions to the guest's gallery.

🖨️ Spin & Print (Strips & Keychains from 360)

- **Instant Physical Keepsakes:** Click **Spin & Print** on the 360 Desk to extract frames from any 360 spin and print branded 2×6 strips, 4R prints, or **2.5×7.5" keychains**.
- **Print Mode:** Choose **Multi-angle sequence** (fills 3-photo strips with different spin angles) or **Solo** (1 hero frame).
- **Video QR on the Print:** Each printed strip includes a scannable QR code linking right back to the guest's 360 video! Tick **and auto-print strip / keychain** in **Audio & FX** for automatic printing.

📱 Sharing Station (Separate iPad / Tablet)

Connect an iPad or tablet to the booth Wi-Fi and open `http://<laptop-ip>:47777/station`. Guests step away from the 360 arm, browse finished spins (with the preset name badge shown), tap their clip, and scan their personal QR code. Resets automatically after 35 s.

📺 Live Wall & Crowd Sync (TV / Projector)

Connect a TV/projector browser to the booth Wi-Fi and open `http://<laptop-ip>:47777/wall`. Displays live countdown cues (*"3... 2... 1... JUMP! 🌌"*) during recording, then pops up a celebration replay banner (*"✨ New 360 Spin Ready!"*) with an on-screen QR code as soon as each render finishes.

Field Troubleshooting Quick Matrix

Symptom	Cause	Quick Fix
Can't see Presets / No Edit controls	Using the website booth or an older build without video engine.	Open the **photobooth4u Laptop App → Extras → 360 desk → ✨ Presets** (reinstall latest app from `/downloads/` if needed).
Phone / Station / Wall can't reach laptop	Different Wi-Fi networks or macOS/Windows firewall blocking port 47777.	Turn on **Make this laptop the booth Wi-Fi** in **Setup → Share & start** (or join the same booth Wi-Fi); tap **Scan QR** in **Record 360** and run **Connect → Test**. Allow firewall access on Mac/Win.
Slow-mo is choppy or slow to render	Phone recorded at 30 fps or *Smoother slow motion* is on for 60 fps clips.	Set arm camera to **1080p @ 60 fps**, untick **Smoother slow motion**, keep clips 8–12 s, and use **720p** or **540p Light**.
iPhone clip shows black preview in Desk	HEVC (`.mov`) codec preview on some laptops.	Wait 2–3 seconds—the desk auto-creates a lightweight preview copy while still rendering the final MP4 from the full original.
Guest phone drops booth Wi-Fi	Phone switched back to mobile data because booth Wi-Fi has no internet.	Tell Android guests to tap **Stay connected** on the "No internet" prompt, then scan the **Step 2** QR again.

360 Pre-Flight Checklist (Laptop & Ready Edits):

- [ ] 5GHz booth router or Laptop Hotspot on & Wi-Fi QR configured
- [ ] **360 desk → Connect → Test** shows all green checks
- [ ] ✨ **Presets** selected + Event text/music + **Auto mode** ON

360 Pre-Flight Checklist (Arm, Screens & Remote):

- [ ] Arm phone at **1080p 60fps**, AE/AF locked, **360 Send** saved to Home Screen
- [ ] One test spin sent, auto-edited, and scanned with a guest phone
- [ ] Optional `/station` iPad, `/wall` TV, & Bluetooth clicker verified