PulseWatermark — Illustrated Visual User Manual

Certified True Copy Endorsement & Watermark System (100% Client-Side Security)

100% Free • Fully PDPA Compliant • Pure Local In-Memory Processing

1. Quick Start: How to Use PulseWatermark in 4 Simple Steps

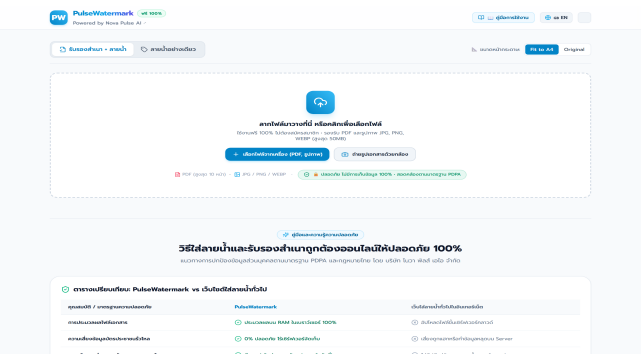
1 **Import Document or Scan with Camera (File Upload / Camera)**
Drag & drop PDF, JPG, PNG, WEBP files (up to 50MB), or tap "Take photo with camera" for

2 **Select Operation Mode & Page Sizing (Mode & Sizing)**
Choose "Certified + Watermark" for official ID submissions or "Watermark Only" for drafts.

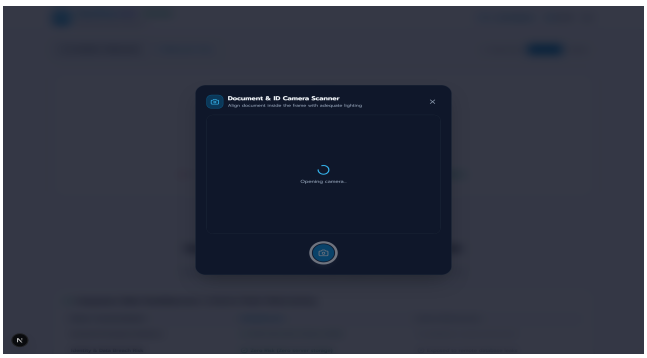
3 **Customize Endorsement, Signature & Placement (Customize & Placement)**
Type specific purpose, select 1 of 3 signature modes, adjust ink color and security lines,

4 **Print Directly or Save as PDF A4 (Print / Export)**
Click "Print Document (Ctrl+P)" for high-DPI direct printing, or click "Save as PDF (A4)"

Live UI Screenshots: Document Ingestion & High-Res Camera Scanner



Home Screen: File Dropzone & Language



Camera Scanner: Instant Live ID Capture

1. Ergonomic 5-Zone Workspace Architecture Breakdown

Zone 1: Top Navigation Header
User manual modal, language toggle (TH/EN), dark/light theme switcher, and red "Clear All

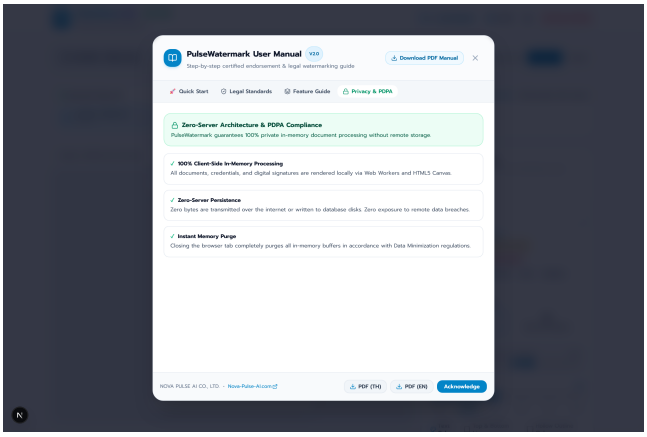
Zone 2: Mode & Page Sizing Toolbar
Toggle between Certified + Watermark vs Watermark Only modes, and select Fit to A4

Zone 3: Document Queue & Ingestion
Lists queued documents with pagination, plus "+ Add More Files" and instant camera scanner

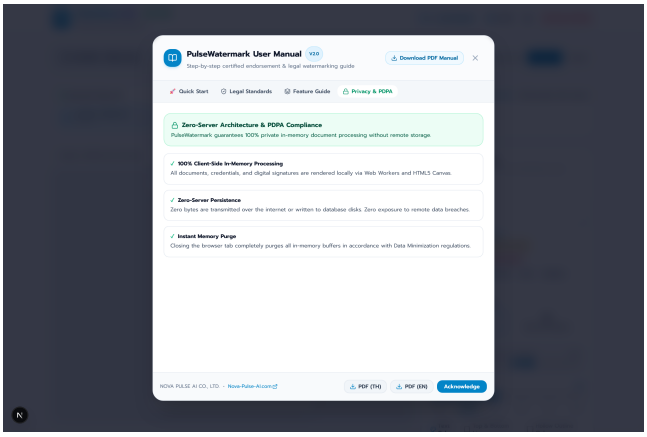
Zone 4: Interactive Preview Canvas & Free Drag-and-Drop
High-DPI vector rendering canvas enabling direct click-and-drag endorsement stamp positioning

Zone 5: Right Inspector Control Panel
Complete endorsement configuration: header text, purpose limitation, 3 signature styles, date

2. Real Workspace UI: Certified Endorsement vs Watermark Tile Pattern



Mode A: Certified True Copy & Stamp
Blue ink stamp, 3 signature styles, double lines, and free drag.



Mode B: Watermark Tile Pattern
Diagonal tiled grid pattern for CONFIDENTIAL or draft notices.

1. Endorsement Header

Select standard compliant wording: "รับรองสำเนาถูกต้อง", "สำเนาถูกต้อง", or "CERTIFIED TRUE COPY" for international transactions.

2. Purpose Limitation Statement & Quick Presets

Crucial legal safeguard! Specify recipient name and conclude with "only". Includes 1-click presets: +Job, +Bank, +Tax, and +Contract.

3. 3 Signature Modes

- Digital Sign: Draw live signature on touchscreen/mouse or upload PNG image.
- Blank Space for Pen (Recommended): Leaves calibrated blank space to print and sign with physical pen.
- No Signature: Prints signer name directly without signature line for official bylaws.

4. Signer Legal Name & Local Memory

Specify full legal name under signature. Optional "Remember on this device" persists credentials strictly inside local browser memory.

5. Date Stamping & Era Toggle

Timestamps execution date to bound document lifespan. Auto-switches between Buddhist Era (BE) and Western Gregorian (CE).

6. Pen Ink Colors

Choose legally compliant ink shades: Standard Ballpoint Blue (#003399), Royal Navy Blue (#001F5C), or Pure Document Black (#1A1A1A).

7. Security Double Lines & Block Angle

Draws parallel security lines bordering certification text to prevent fraud. Presets: 0° Straight, -10° Slanted, -15° Crossing, or fine slider.

8. Scale & 4 Quick Positions (+ Free Drag)

Adjust stamp scale (60% to 140%). 4 quick corner presets: Bottom-Right (Recommended), Center, Bottom-Left, Top-Right, plus free canvas drag.

9. Dual-Layer Background Defense

Embeds faint diagonal repeat background watermark behind endorsement stamp, stopping digital erasing and tampering completely.

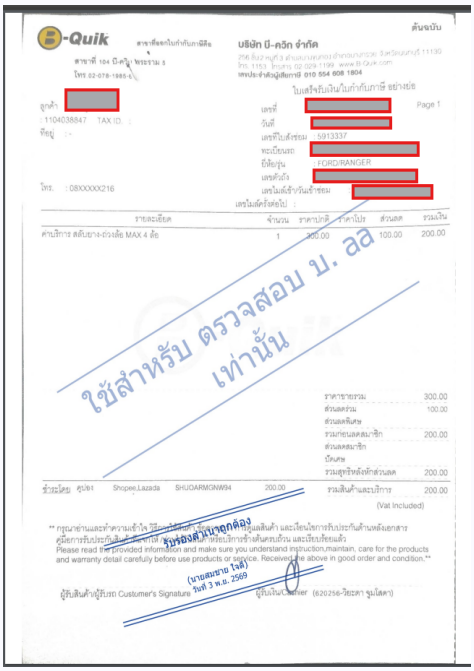
10. Page Sizing Architecture

- Fit to A4 Standard (Recommended): Scales document proportionally onto A4 canvas with automatic orientation detection for flawless printing.
- Original Size: Retains native pixel dimensions and aspect ratio for web uploads.

1. 4 Golden Rules for Valid Legal Endorsements in Thailand

1. Parallel Security Lines: Draw diagonal double lines over document data. Never cross over facial portrait to retain identity verification.
2. Explicit Purpose Binding: Never write generic terms like "for business use". Always specify the recipient entity and conclude with "only".
3. Mandatory Date Stamp: Affix the exact date of endorsement to limit document lifespan and prevent historical copy reuse.
4. Dual-Layer Background Defense: Combine foreground endorsement stamp with background watermark to stop digital erasure tampering.

2. Real-World Certified Document Sample with Physical Signature & Masked PII



Anatomy of Compliant Endorsement:

Physical Blue Ink Signature:
Signed with authentic blue ballpoint pen inside the calibrated space generated by "Blank Space for Pen" mode.

Redacted Non-Essential PII:
Masks invoice reference and vehicle license numbers, complying strictly with PDPA minimization mandates.

Center Diagonal Watermark:
Watermarked diagonally "For Verification with Company AA Only" to block unauthorized photocopies.

Parallel Border Security Stamp:
Endorsement header, date stamp, and legal name placed neatly at corner without obscuring invoice details.

3. Zero-Server Architecture & 100% Client-Side Privacy Compliance

PulseWatermark processes all documents, ID credentials, and digital signatures strictly inside your local device browser RAM. Zero bytes are transmitted across the internet, and zero files are stored on remote disks. Closing your browser tab completely purges all in-memory buffers in full accordance with Data Minimization and PDPA regulations.