

# PDFCraft Pro

The Intelligent All-in-One Desktop PDF Workstation

## Visual Canvas Studio & Drawing Tools

Full-page visual drawing, in-place text editing, highlighter pens, and MS Office-style image cropping.

 **Key Capability:**

Canvas Tools: Pen (1-60pt), Highlighter, Eraser, Text Box, Crop Rectangle

PDFCraft Pro v2.0 - Prism CyberTech Sri Lanka

**Developed by:** The Prism Cyber Tech Sri Lanka • **Lead Architect & Author:** Susantha Weerakoon  
**Official Portal:** <https://erp.theprism.com.lk> • **Customer Care:** [info@prismcybertech.lk](mailto:info@prismcybertech.lk)  
**Licensing Management Portal:** <https://erp.theprism.com.lk/pdfcraft/>

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## 1.0 System Requirements & Setup Installation

PDFCraft Pro is engineered as a high-performance native 64-bit Windows application. It runs locally with hardware acceleration for instantaneous PDF page manipulation.

| Hardware Component  | Minimum Requirement | Recommended Specification             |
|---------------------|---------------------|---------------------------------------|
| Operating System    | Windows 10 (64-bit) | Windows 11 (64-bit)                   |
| Processor (CPU)     | 1.6 GHz Dual-Core   | Intel Core i5 / AMD Ryzen 5 or higher |
| System Memory (RAM) | 2 GB RAM            | 4 GB RAM or higher                    |
| Hard Disk Storage   | 200 MB Free Space   | Fast Solid State Drive (SSD)          |
| Display Resolution  | 1280 x 720 Pixels   | 1920 x 1080 (Full HD) or 4K High-DPI  |

### Setup Installer Operating Steps:

- **Step 1 (Launch):** Run PDFCraft\_Setup\_v2.0.exe to start the graphical installer.
- **Step 2 (EULA):** Read the End-User License Agreement by The Prism Cyber Tech Sri Lanka and select '■ I accept the agreement' to unlock the Next button.
- **Step 3 (Destination):** Choose the destination folder (default: %LOCALAPPDATA%\Programs\PDFCraft). Setup checks free disk space automatically.
- **Step 4 (Shortcuts):** Check 'Create Desktop Shortcut' and 'Create Start Menu Shortcut'.
- **Step 5 (Installation):** Click **Install**. The installer unpacks files while cycling through product feature cards. Click **Finish** to launch PDFCraft Pro.

## 2.0 First-Time Launch & License Activation

When PDFCraft Pro is launched for the first time, the **License & Trial Activation Dialog** automatically appears. To operate the application, you must either start a 30-day evaluation trial or activate a commercial key.

Cloud-Backed 30-Day Trial & Licensing

Instant 30-day evaluation release, online database verification, and multi-factor hardware security.

⚡ Key Capability:

Connected to: [erp.theprism.com.lk/pdfcraft/](http://erp.theprism.com.lk/pdfcraft/) (The Prism Cyber Tech)

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### Option A: Requesting a 30-Day Free Evaluation Trial (1-Click)

1. In the activation dialog, remain on the '■ Request 30-Day Free Trial' tab.
2. Type your **Full Name** and **Email Address**.
3. Click ■ **Start 30-Day Free Trial**. PDFCraft securely communicates with [erp.theprism.com.lk](http://erp.theprism.com.lk), verifies your machine hardware ID (HWID), and releases a 30-day full-featured license immediately.

### Option B: Activating a Commercial License Key

1. Switch to the '■ Activate License Key' tab.
2. Enter your **Registered Email** and your 16-character license key (format: PCRAFT-XXXX-XXXX-XXXX).
3. Click ■ **Activate License Key**. The cloud database registers your activation, and your remaining plan days count down from your first connection.

### 3.0 Main User Interface Architecture

The PDFCraft Pro workspace is structured into 4 intuitive operational panels designed for high-efficiency document workflows:

| UI Section      | Component Name        | Description & Functional Purpose                                                                                               |
|-----------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Zone 1 (Top)    | Header Action Bar     | Contains global commands: Add Files (+), Remove (-), Clear All, Move Up/Down, License Status Badge, and About Box.             |
| Zone 2 (Left)   | Document Queue        | Displays all loaded PDF and image files with file icons, page counts, outline topics, and drag-and-drop reordering.            |
| Zone 3 (Center) | Page Properties Panel | Controls fine-grained attributes: Topic Bookmark Title, Custom Page Range selector, Rotation, Extract Pages, and OCR triggers. |
| Zone 4 (Right)  | Live Preview & Canvas | High-resolution document previewer equipped with page navigation, zoom controls, and a quick-drawing annotation bar.           |

### 4.0 Document Queue Management & File Tools

The Document Queue manages all input files that will be processed, merged, or extracted. Each file is treated as an independent document layer.

#### 4.1 Adding Documents & Supported File Formats

You can add files using two methods:

- **Click '+ Add Files'** in the top toolbar or press **Ctrl + O**.
- **Drag & Drop:** Select files from Windows File Explorer and drop them directly into the queue list.

**Supported Formats:**

- **Portable Document Format (.pdf):** Standard, vector, scanned, and password-protected PDF files.
  - **Image Formats (.png, .jpg, .jpeg, .bmp, .tiff):** Images are automatically rasterized into full-size vector PDF pages preserving aspect ratio and resolution.

#### 4.2 Reordering & Queue Controls

- **■ Move Up / ■ Move Down:** Shifts the selected document higher or lower in the merge sequence.
- **Drag-to-Reorder:** Click and drag any row in the list to reposition it interactively.
- **- Remove File:** Removes the selected document from the processing queue.
- **■ Clear All:** Prompts a confirmation dialog to safely clear the entire document list.

#### 4.3 Password-Protected PDF Handling

When an encrypted or password-locked PDF is added, PDFCraft Pro immediately detects the cryptographic lock and presents the **Password Required Dialog**. Upon entering the correct user or owner password, the document is decrypted in-memory for previewing, merging, and annotation.

## 5.0 Page Properties, Extraction & Scanned OCR

When a document is selected in the queue, the **Center Properties Panel** allows you to configure its output parameters before merging or extracting:

### 5.1 Topic / Outline Bookmark Title

The text entered in the **'Topic / Outline Title'** box becomes the primary bookmark title in the generated PDF Outline Tree and the clickable Table of Contents (TOC). If left blank, PDFCraft Pro automatically uses the original filename.

### 5.2 Custom Page Range Selection

Filter which pages are included in the final output using flexible syntax expressions:

| Syntax Pattern      | Example Expression | Behavior & Included Pages                                           |
|---------------------|--------------------|---------------------------------------------------------------------|
| All Pages           | All                | Includes every page of the document in natural order.               |
| Individual Pages    | 1, 4, 7            | Includes only pages 1, 4, and 7.                                    |
| Page Range          | 3-8                | Includes pages 3, 4, 5, 6, 7, and 8.                                |
| Open-Ended Range    | 5-end              | Includes from page 5 through the last page of the document.         |
| Complex Combination | 1-3, 5, 8-end      | Merges specific ranges and single pages into a customized sequence. |

### 5.3 Document Page Orientation (Rotation)

Fix upside-down or sideways scans using the **Rotation Dropdown**:

- **0° (Normal)**: Default orientation.
- **90° (Clockwise)**: Rotates pages 90 degrees right.
- **180° (Flip)**: Inverts pages upside down.
- **270° (Counter-Clockwise)**: Rotates pages 90 degrees left.

### 5.4 Extracting Sub-Ranges into Standalone PDFs

To split or extract specific pages without merging the whole queue:

1. Select the document in the list and enter the desired page range (e.g. 2-5, 9).
2. Click **'Extract Pages'**.
3. Choose a destination filename \$ ightarrow\$ A new standalone PDF containing only the selected sub-pages is instantly generated.

### 5.5 Scanned Document OCR (Searchable PDF Conversion)

Click **'OCR Current PDF'** to process scanned image PDFs. The OCR engine scans bitmap pages, identifies printed text lines, and injects an invisible searchable text layer behind the images, enabling you to search, highlight, and copy text from scanned paper documents.

## 6.0 Visual Canvas Studio & Drawing Tools

The **Visual Canvas Studio** is an advanced full-screen workspace for annotating, signing, highlighting, inserting text, cropping, and executing handwriting recognition on PDF pages.

### Visual Canvas Studio & Drawing Tools

Full-page visual drawing, in-place text editing, highlighter pens, and MS Office-style image cropping.

#### Key Capability:

Canvas Tools: Pen (1-60pt), Highlighter, Eraser, Text Box, Crop Rectangle

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### 6.1 How to Launch the Canvas Studio:

- **Method 1:** Select a document and click '**Open Canvas Editor**' in the center properties panel.
- **Method 2:** Press the global shortcut **Ctrl + E** on any selected page.
- **Method 3:** Use the Quick Drawing Bar directly above the Live Preview on the right panel.

## 6.2 Step-by-Step Breakdown of Every Canvas Operation:

### Operation 1: Freehand Drawing & Signatures (— Pen Tool)

**Purpose:** Draw legal signatures, checkmarks, arrows, diagrams, or freehand margin notes.

#### Step-by-Step Instructions:

1. Click the '— Pen' button on the toolbar. The cursor turns into a precision crosshair.
2. Select your desired color from the preset color swatches or click '**Custom RGB**' to pick any custom color.
3. Drag the **Line Width Slider** to set stroke thickness (1 pt to 60 pt).
4. Click and drag across the canvas to draw. PDFCraft applies smooth anti-aliased bezier curve interpolation.

### Operation 1.1: Smart Shape Recognition & Live Drag-to-Resize ■

**Purpose:** Automatically transform imperfect freehand sketches into flawless geometric vector shapes with real-time interactive scaling.

**Supported Shapes:** Straight Lines, Directional Arrows, Perfect Circles, Ellipses, Rectangles, Squares, and Triangles.

#### How to Use:

1. With the **Pen Tool** selected, sketch any shape (e.g. draw a line, rough circle, rectangle, or triangle).
2. **Hold the pen / mouse still for 450ms** at the end of the stroke  $\rightarrow$  The stroke snaps instantly into a real geometric vector shape.
3. **Live Dynamic Drag & Resize (Before Release):** Move the cursor around without releasing the mouse button to fluidly scale, expand, shrink, or re-orient the shape in real time.
4. Release the mouse / stylus to commit the vector shape directly onto the document canvas.

### Operation 2: Translucent Highlighting (■■ Highlighter Tool)

**Purpose:** Emphasize important text lines, table cells, or diagrams without obscuring content.

#### Step-by-Step Instructions:

1. Click the '■■ Highlighter' button on the toolbar.
2. Select a highlight color (e.g. Fluorescent Yellow, Light Green, Cyan Blue, or Coral Pink).
3. Adjust the stroke width using the thickness slider (recommended: **12 pt – 24 pt**).
4. Drag across the desired text. The highlighter uses a **50% translucent alpha blend mode** that keeps the original text 100% crisp and readable underneath.

### Operation 3: Precision Stroke Erasing (■ Eraser Tool)

**Purpose:** Remove accidental pen, shape, or highlighter strokes without damaging the original PDF document.

#### Step-by-Step Instructions:

1. Click the '■ Eraser' button.
2. Click or drag over any user-drawn stroke or shape to erase it cleanly. Original PDF text and images remain 100% protected.

## Operation 4: Modern Canvas Tool Ribbon & Standard Tool Icons

Canvas Studio features an intuitive Office-standard ribbon interface equipped with vector icons:

- **■ Selection Tool (Pointer Arrow):** Click and drag any text box, KPI metric card, corporate seal, signature, or image object across the canvas with 4 corner resize handles.
- **■ Edit Text Tool (I-Beam Typography Cursor):** Double-click any native text block to edit and replace words directly in place.
- **■ Add Text Tool (Text with Plus Badge):** Click anywhere on the page to insert a new customizable text block with full typography controls.
- **# Crop Tool (Standard Photo Crop Symbol):** Interactive 8-handle crop frame to trim page borders or crop selected graphic elements.

## Operation 5: Directional Watermark Studio & Arrow Orientation (■, ➔, ■, ■)

**Purpose:** Stamp professional security marks, status badges (e.g. *CONFIDENTIAL*, *DRAFT*, *APPROVED*, *TOP SECRET*) with full directional control.

**Step-by-Step Instructions:**

1. Click the '■■■ Watermark' button in the ribbon.
2. Enter your watermark text or choose from one-click corporate presets.
3. **Select Direction by Arrow:** Choose '■ Diagonal Up (45°)', '➔ Horizontal (0°)', '■ Diagonal Down (-45°)', or '■ Vertical (90°)', or use the interactive angle slider (-90° to +90°).
4. Adjust opacity (10% to 90%) and theme color with live miniature compass preview ➔ Click 'Apply Watermark' to render live on canvas and embed upon export.

## Operation 6: Smart Ink-to-Text Recognition (🖋️ ■ Recognize Ink to Text)

**Purpose:** Convert freehand handwriting into editable, digital text boxes.

**Step-by-Step Instructions:**

1. Write your note on the canvas using the **Pen Tool**.
2. Click '🖋️ ■ Recognize Ink to Text' ➔ Stroke paths are converted into digital Unicode text formatted in native fonts.

## 6.3 Workspace Project Persistence (\*.pdfcra Format) ■

PDFCraft Pro allows you to save and resume complex, multi-document editing sessions:

- **Save Project (Ctrl + S):** Click '■ Save Project' to package your entire document queue, page ranges, rotations, outline topics, and all vector canvas layers into a compressed .pdfcra project archive.
- **Open Project (Ctrl + Shift + O):** Click '■ Open Project' (or double-click any .pdfcra file in Windows Explorer) to reload your workspace and continue editing seamlessly.

## 6.4 Interactive Template Customization Studio & Element Editing ■

When templates or documents are opened in Canvas Studio, every visual element is an **interactive, moveable, resizable, and editable object**:

- **Select & Move Anywhere:** Click any text box, metric card, signature, or official seal to select it ➔ Drag it anywhere across the page.
- **Resize with 4 Handles:** Drag the blue corner handles (top-left, top-right, bottom-left, bottom-right) to expand or scale any card or seal.
- **Double-Click In-Place Text Editing:** Double-click any element (or click '■ Edit Text / Data' in the toolbox) to modify headings, KPI numbers (e.g. change +34.8% to +52.4%), author names, or organization titles.
- **Pre-Setup Corporate Official Seals:** Choose from 4 official styles (*Corporate Gold Seal*, *Verified Document*, *ISO 9001 Compliance*, *Architectural Approval*), customize company name, year, and verification badge, and place directly on certificates or proposals.
- **Pre-Setup Signatures & KPI Cards:** 1-click builder for customized signatory blocks (*Susantha Weerakoon*, *The Prism Cyber Tech*) and styled KPI metrics.
- **Theme Accent Palette:** 1-click palette switcher instantly synchronizes element colors across *Corporate Blue*, *Forest Green*, *Crimson Red*, *Royal Purple*, and *Deep Navy*.

## 7.0 Smart Multilingual Handwriting OCR Engine

PDFCraft Pro features an advanced **Handwriting Recognition & Script Detection System** that bridges the gap between freehand stylus notes and formatted digital typography.

 **Multilingual Handwriting & Smart OCR**

Convert handwritten notes and scanned pages into editable text with auto font & script detection.

 **Key Capability:**

Supported: Sinhala, Tamil, Hindi, English, Chinese, Japanese, Korean

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### 7.1 How Handwriting Recognition Operates:

1. Draw or write your notes on any PDF page using the **Freehand Pen Tool** in the Canvas Editor.
2. Click the ' **Recognize Ink to Text**' button in the canvas toolbar.
3. The engine extracts stroke paths, analyzes curvature and velocity heuristics, identifies the underlying language/script, and automatically replaces the raw ink with clean, editable digital text boxes formatted in native Unicode fonts.

### 7.2 Supported Scripts & Native Typography Mapping:

| Language / Script           | Detected Unicode Range | Mapped Font Family & Styling                                       |
|-----------------------------|------------------------|--------------------------------------------------------------------|
| Sinhala (සිංහල)             | U+0D80 to U+0DFF       | Iskoola Pota / Noto Sans Sinhala (Clear Sinhala Unicode rendering) |
| Tamil (தமிழ்)               | U+0B80 to U+0BFF       | Latha / Nirmala UI (Optimized Indic typography)                    |
| English & Latin             | U+0020 to U+007F       | Segoe UI / Arial / Calibri (Clean executive sans-serif)            |
| Hindi / Devanagari          | U+0900 to U+097F       | Mangal / Aparajita / Nirmala UI (Full conjunct support)            |
| Chinese / Japanese / Korean | CJK Unified Ideographs | Microsoft YaHei / MS Gothic / Malgun Gothic                        |

### 7.3 Font Engine & Ligature Rendering

PDFCraft Pro includes an embedded font fall-back engine that prevents character clipping (boxes or question marks) when rendering complex Indic and Asian scripts, ensuring that diacritics, matras, and kombuwa symbols are drawn with 100% typographical fidelity.

## 8.0 Live Search, Replace & Privacy Shield (Redaction)

The **Search, Replace & Privacy Shield Suite** allows you to navigate keywords across documents and permanently sanitize sensitive information before publishing or distributing files.

 **Live Search, Replace & Privacy Shield**

Find and replace text across PDF pages and sanitize sensitive data (emails, IDs, phones) with 1 click.

 **Key Capability:**

Features: Real-time search navigation, Regex patterns, Blackout & Whiteout

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### 8.1 Live Keyword Search & Navigation

- Press **Ctrl + F** or click **'Search & Replace'** to open the search bar:
- Type any word or phrase → PDFCraft highlights all matches across the document in real time.
  - Use **Previous** (<) and **Next** (>) buttons to jump sequentially between matches.
  - Toggle **'Match Case'** or **'Whole Words Only'** for refined precision.

### 8.2 Privacy Shield Automated Data Redaction

Privacy Shield utilizes regex heuristic engines to automatically identify and sanitize confidential data records:

| Confidential Data Type        | Heuristic Detection Pattern              | Sanitization Impact                   |
|-------------------------------|------------------------------------------|---------------------------------------|
| Email Addresses               | Standard RFC-5322 email syntax           | Removes corporate & personal emails   |
| Mobile & Phone Numbers        | Sri Lankan (+94) & International formats | Redacts direct contact numbers        |
| National Identity Cards (NIC) | Old 9-digit (V/X) & New 12-digit formats | Sanitizes citizen identity numbers    |
| Passport & Travel Numbers     | Alphanumeric passport codes              | Protects travel and visa documents    |
| Credit & Account Numbers      | 16-digit card sequences (Luhn validated) | Sanitizes payment information         |
| Custom Regular Expression     | User-defined regex pattern               | Targets custom internal reference IDs |

### 8.3 Redaction Modes & Binary Stream Sanitization

- **Blackout Mode:** Replaces targeted characters with a solid, opaque black rectangle.
- **Whiteout Mode:** Blanks out the area cleanly to match the page background.
- **True Binary Sanitization:** Unlike simple cosmetic overlay tools, PDFCraft Pro completely deletes the underlying character vectors from the PDF content stream. Redacted data cannot be highlighted, copied, or recovered by any PDF viewer or inspection tool.

## 9.0 Multi-PDF Merging & Auto Table of Contents (TOC)

The **Multi-PDF Merging Engine** combines heterogeneous documents (mixing Letter, A4, Legal sizes and image orientations) into a unified master PDF file with professional navigation features.



### High-Speed Multi-PDF Merging & TOC

Combine unlimited PDF documents, customize page ranges, auto-generate bookmarks and Table of Contents.

**Key Capability:**  
Capabilities: Reorder pages, Rotate angles (90/180/270), Bookmarks outline tree

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### 9.1 Automatic Table of Contents (TOC) Generator

When merging multiple documents, PDFCraft Pro can generate an interactive Table of Contents page at the beginning of the file. Each entry displays the document topic title and clickable page numbers that jump directly to that section in any standard PDF reader.

### 9.2 Hierarchical Bookmarks Outline Tree

PDFCraft Pro automatically embeds a hierarchical bookmark tree into the PDF document metadata. When the merged file is opened in Adobe Acrobat, Microsoft Edge, Google Chrome, or Apple Preview, users can navigate chapters and attachments via the left-side Bookmarks panel.

## 10.0 Live License Countdown & About Box

PDFCraft Pro maintains full transparency regarding your trial and subscription validity with real-time on-screen status indicators:

### 10.1 Top Header License Badge

The header bar continuously displays your operational state:

- 30-Day Evaluation: X Days Remaining (Active Trial)
- ✓ Licensed to: client@company.com (Commercial Tier)
- License Expired - Click to Renew (Expired State)

### 10.2 About Box Countdown & Red Alert Warning

Click **'About PDFCraft'** or press **F1** to view your installation details:

- Displays copyright attribution: *Developed by The Prism Cyber Tech Sri Lanka (c) Susantha Weerakoon.*
- Remaining Days Countdown:** Displays exact remaining days directly below the copyright notice.
- **Red Alert Reminder:** When **10 days or fewer** remain before expiration, the countdown text turns **bold red** as an urgent reminder to renew your license.

## 11.0 Complete Keyboard Shortcuts Reference

Maximize your workflow efficiency using native desktop keyboard shortcuts:

| Shortcut | Command Action      | Functional Description                                     |
|----------|---------------------|------------------------------------------------------------|
| Ctrl + O | Add Documents       | Open file dialog to load PDF, PNG, JPG, BMP, or TIFF files |
| Ctrl + M | Merge All Documents | Execute high-speed multi-PDF merging with auto TOC         |
| Ctrl + E | Open Canvas Editor  | Launch full-screen visual drawing and annotation studio    |
| Ctrl + F | Search & Redact     | Open keyword search navigation and Privacy Shield suite    |
| Ctrl + Z | Undo Action         | Revert previous drawing stroke, text box, or crop edit     |
| Ctrl + Y | Redo Action         | Restore previously undone drawing or text action           |
| Ctrl + + | Zoom In             | Increase document preview magnification by 25%             |
| Ctrl + - | Zoom Out            | Decrease document preview magnification by 25%             |
| Ctrl + 0 | Reset Zoom          | Reset preview viewport to 100% actual size                 |
| Delete   | Remove File         | Remove selected document from the processing queue         |
| F1       | About Box & License | Open About dialog with remaining days countdown            |

## 12.0 Uninstallation & Maintenance

PDFCraft Pro is registered in Windows Control Panel. To uninstall cleanly:

1. Open **Windows Settings** → **Installed Apps** (or **Control Panel** → **Programs and Features**).
2. Locate **PDFCraft Pro** and click **Uninstall**.
3. The uninstaller removes all binaries, shortcuts, and registry entries cleanly.

## 13.0 Corporate Information & Technical Support

**Product Name:** PDFCraft Pro — Professional Desktop PDF Suite (Version 2.0)

**Developed by:** The Prism Cyber Tech Sri Lanka

**Lead Architect & Author:** Susantha Weerakoon

**Official Corporate Website:** <https://erp.theprism.com.lk>

**Cloud Licensing Management Portal:** <https://erp.theprism.com.lk/pdfcraft/>

**Technical Support & Inquiries:** [info@prismcybertech.lk](mailto:info@prismcybertech.lk)