

	CorelDRAW [®] Technical Suite 2020	CorelDRAW [®] Technical Suite 2019	CorelDRAW [®] Technical Suite 2018	CorelDRAW [®] Technical Suite 2017	CorelDRAW [®] Technical Suite X7
CREATE TECHNICAL ILLUSTRATIONS WITH PRECISION					
Projected drawing tools Draw directly on parallel projected planes, including isometric, dimetric, or custom projections, to create the illusion of a 3D image.	✓	✓	✓	✓	✓
Enhanced isometric drawing tools Obtain more precision and exactness with the UI controls in Corel DESIGNER™ that consider the scale of the projected axes according to the settings of the active projected plane.	✓ ENHANCED!	✓	(✓)	(✓)	(✓)
Thick and Thin Lines Automatically adjust line weights on curves, rectangles, ellipses, and more in projected drawings.	✓ NEW!				
Wrap tool The new Wrap tool in Corel DESIGNER 2020 makes it quick and easy to precisely wrap an object around a cylinder, like adding a label to a bottle.	✓ NEW!				
Line style sets Corel DESIGNER offers line style sets that support technical illustration standards.	✓	✓			
Callout tools Add callouts in a single click, with leader lines, halos, text and more. Dynamic callouts link to source object metadata to make updating callouts fast and easy.	✓ ENHANCED!	✓	✓	✓	✓
Legless Callouts Use the new Legless Callout tool when you want to add a callout that doesn't need a leader line to create distance from the part.	✓ NEW!				
Hotspot capabilities Use the Object Data Manager in Corel DESIGNER to add interactive functionality to callout and other graphical shapes within technical publications.	✓ ENHANCED!	✓	✓	✓	✓
Automatic Hotspots Let Corel DESIGNER automatically apply hotspots to callouts as you draw them.	✓ NEW!				
Halos on curves Ensure that diagrams, instructions, and flowcharts are easy to read by using halos on curves.	✓ ENHANCED!	✓	✓	✓	✓

CREATE TECHNICAL ILLUSTRATIONS WITH PRECISION

Objects docker Corel DESIGNER and CorelDRAW allow you to hide objects and groups of objects, helping you edit objects in complex projects and experiment with your designs more easily.	✓	✓	(✓) (Object Manager docker)	(✓) (Object Manager docker)	(✓) (Object Manager docker)
Technical illustrations from 3D Use the "Send to Corel DESIGNER" feature to transform 3D views into clear vector illustrations.	✓ ENHANCED!	✓	✓	✓	✓
Marketing graphics from 3D Use the "Send to CorelDRAW" feature to transform 3D views into vector graphics for creative design works with CorelDRAW.	✓ ENHANCED!	✓	✓	✓	
Insert 3D model Insert a 3D model into a Corel DESIGNER document as an interactive 3D model (XVL file) with a high-res preview.	✓	✓	✓	✓	✓
Non-destructive bitmap effects Apply, modify, and experiment with bitmap effects on both vectors and bitmaps, all without altering the source image or object in CorelDRAW, Corel DESIGNER and Corel PHOTO-PAINT.	✓ ENHANCED!	✓			
Pixel-perfect workflow Create icons and clean, crisp images for dashboards with a series of new features that ensure pixel-perfect precision and better support for odd-pixel-number sized drawings.	✓	✓			
Projected dimensions The projected dimension options eliminate the need to draw and project dimension objects in multiple steps.	✓	✓	✓	✓	✓
Projected Arrowheads Arrowheads for dimension and regular lines now project with the line when drawing in a projected drawing plane.	✓	✓			
Transform docker Featuring clear labels, improved layout, and interactive controls, the enhanced Transform docker makes it even easier to position, scale, mirror, rotate, and project objects.	✓ ENHANCED!	✓ ENHANCED!	✓	✓	✓
Create and apply styles Import multiple curves from XVL Studio 3D Corel Edition, and create style sets from them with a single click in the Object Styles docker. If there are existing style sets that match the properties of the imported curves, they will be applied to the curves automatically.	✓ ENHANCED!	✓ ENHANCED!	(✓)	(✓)	(✓)
Live guides and alignment tools Temporary guidelines appear when you create, resize, or move objects with suggested alignments to existing elements. Gravity snapping, dynamic guidelines and alignment guides help position objects precisely in relation to other objects.	✓	✓	(✓)	(✓)	(✓)

CoreIDRAW®
Technical
Suite 2020CoreIDRAW®
Technical
Suite 2019CoreIDRAW®
Technical
Suite 2018CoreIDRAW®
Technical
Suite 2017CoreIDRAW®
Technical
Suite X7**CREATE TECHNICAL ILLUSTRATIONS WITH PRECISION****Boundary tools**

Expand the effectiveness and reach of a border with an option that allows users to extend curves when creating a boundary using the Boundary tool or the Smart Fill tool in Corel DESIGNER.

**Parallel line drawing tool**

Speed up the creation of technical graphics with the Parallel Drawing mode in Corel DESIGNER and CoreIDRAW.

**Total control over fills and transparency**

Experience our most powerful fill engine ever, giving you complete control over your fountain, bitmap pattern, vector pattern (and hatch) fills.

**Hatch fills**

Fill objects with vector hatch patterns to clearly distinguish materials or object relationships.

**Equation Editor**

Manage mathematical formulas as editable elements within technical illustrations using the integrated Equation Editor.

**Connector line tools**

Quickly and easily add advanced connector lines to flowcharts and business diagrams.

**Drawing scale control**

Manipulate the drawing scale from the toolbar at any time for precise technical illustrations.

**Optimize geometric objects**

Convert curves to ellipses and fix disconnected curves by using the advanced Join Curves docker.

**Geometric information dialog box**

Access geometric information, such as the length, perimeter, and area of objects.

**NEW! Art Style effects**

New Art Style effects use artificial intelligence (AI) to modify an image or object to produce a stylized version while preserving the original content. You can choose from a range of AI presets based on the techniques of different artists or genres.

**Symmetry drawing mode**

Create a range of symmetrical designs, from simple objects to complex effects in real time, and boost your productivity by automating what is usually a very time-consuming workflow.

**LiveSketch™ drawing tool**

Get right to work with the state-of-the-art LiveSketch™ tool, based on the latest developments in Artificial Intelligence and Machine Learning. Transform free form sketching into precise vector curves directly on a pen-enabled device. Best of all, you'll eliminate the time-consuming task of sketching on paper, scanning and tracing to vector.



✓ = Feature included

(✓) = Limited feature availability

CREATE TECHNICAL ILLUSTRATIONS WITH PRECISION**Add Perspective effect**

Quickly create the illusion of distance and depth by applying perspective to bitmaps, vector objects, or both, directly in the drawing window. It's an ingenious tool to showcase technical illustrations in real world scenarios.

**Apply envelopes to bitmaps**

Shape a bitmap interactively by placing it in an envelope and dragging its nodes. Quickly and seamlessly blend a bitmap into an illustration by using envelope presets or crafting a custom envelope from scratch.

**Align and distribute nodes**

Align and distribute nodes using the bounding box of a selection, the page edge or center, the closest grid line, or a specified point. Distributing nodes is just as easy, adding equal spacing between them horizontally or vertically.

**Support for Real-Time Stylus (RTS)**

Enjoy a more natural drawing experience and achieve more expressive results with the native support for Microsoft Surface, and advanced stylus support. Take advantage of pressure, bearing, tilt, and rotation when using the touch-up tools, painting and other brush tools within the applications. Experiment with rotation, flatness and elongation settings to control your brushstrokes in any given illustration.

**Tables**

Create and import tables to provide a structured layout for text and graphics.

**QR Code generator**

Create time-saving QR codes with Corel DESIGNER and CorelDRAW and add scalable QR codes to a drawing. (Internet connection required for validation)

**IMAGE EDITING****Smart Selection Mask**

The new Smart Selection Mask tool in Corel PHOTO-PAINT™ 2020 selects image areas using an algorithm that intelligently expands the selection by finding edges. What's more, the Mask Transform tool is enhanced so that transformations can now be applied to pixels within a mask.

**NEW! AI-powered upsampling**

New AI-powered upsampling options help enlarge images without losing detail. Using machine-learned models, these additions preserve clean edges, sharpness, and fine details in upscaled files.

**NEW! JPEG artifact removal**

You can get the most out of older images with new advanced machine-learning techniques that remove compression artifacts and recover color details, eliminating tedious manual editing.



IMAGE EDITING**NEW! Non-destructive effects in Corel PHOTO-PAINT™**

The new Effects docker in Corel PHOTO-PAINT 2020 makes it easy to apply, modify and experiment with effects, all without altering the source object. Get different looks by adding multiple effects, reordering them in the list or toggling them on or off.

**NEW!****AfterShot 3 HDR**

Download Corel® AfterShot™ 3 HDR from within the installed applications of the suite to make professional-grade corrections and enhancements to RAW or JPEG photos. Create high dynamic range (HDR) images with the HDR module included in AfterShot 3 HDR.

**Straighten photos and adjust photo perspective interactively**

Rotate crooked images by interactively aligning a straightening bar to an element in the photo or specifying an angle of rotation. Use the interactive Perspective Correction tool to adjust the perspective of buildings, landmarks, or objects in photos.

**High-quality renderings from 3D**

With shading capabilities including textures, lights, shadow mapping and ambient occlusion you can output 3D views as photo-realistic images for professional photo-editing with Corel PHOTO-PAINT.

**Smart Carver**

Easily remove unwanted areas from a photo and simultaneously adjust the photo's aspect ratio.

**Tone curve adjustments**

Adjust image tone with more accuracy and precision.

**Image Adjustment Lab**

Easily and efficiently adjust photos with the powerful Corel PHOTO-PAINT application..

**MAINTAIN STYLE AND CONSISTENCY****Paste in View**

Paste objects in the center of the viewable area of your drawing so that you don't need to zoom out and pan to find them. Accessible through a menu command and a keyboard shortcut (Ctrl+Shift+V), this feature helps you paste objects where you need them.

**Object Styles and Style Sets**

Ensure consistent styles, including externally referenced symbols, and layout throughout your design projects. Use Style Sets to make edits once to have changes applied instantly throughout a project.

**ENHANCED!****Color Harmonies**

Group a document's color styles so that you can quickly and easily produce iterative designs with varying color schemes.



MAINTAIN STYLE AND CONSISTENCY**Color management and support**

Set application color policies to achieve the most accurate color representation with the Default Color Management Settings dialog. Easily match colors between Corel and Microsoft applications, as well as Corel and Adobe applications.

**Corel Font Manager™**

Manage your font and typeface needs with this extensive font exploration and management tool.

**Font list box**

With the Font list box in Corel DESIGNER, CorelDRAW and Corel PHOTO-PAINT, you can view, filter, and find fonts easily.

**Advanced OpenType support**

Take advantage of advanced OpenType typography features, such as contextual and stylistic alternates, fractions, ligatures, ordinals, ornaments, small caps, swashes, and more.

**NEW! Variable Fonts support**

With CorelDRAW and Corel DESIGNER 2020, you can take advantage of the flexibility of OpenType variable fonts, which let you interactively fine-tune a font's appearance. A single variable font file offers a range of looks that used to require multiple fonts, which can reduce file size.

**Complex script support**

Built-in complex script support ensures proper typesetting for glyphs used by Asian and Middle Eastern languages.

**NEW! Numbered lists**

CorelDRAW and Corel DESIGNER 2020 now offer support for customizable multilevel bulleted and numbered lists in paragraph text. The ability to include sublevels in both bulleted and numbered lists ensures that you can clearly convey information in your drawings and layouts.

**ENHANCED! Bulleted lists**

CorelDRAW and Corel DESIGNER 2020 now offer support for customizable multilevel bulleted and numbered lists in paragraph text. The ability to include sublevels in both bulleted and numbered lists ensures that you can clearly convey information in your drawings and layouts.

**Master Layers**

Incorporate page-specific headers, footers and page numbers into technical communication documents.



ACCESS AND REPURPOSE TECHNICAL DESIGN ASSETS

Find and Replace docker

The redesigned Find and Replace docker in CoreIDRAW and Corel DESIGNER 2020 offers an expanded search range so you don't have to do multiple sweeps in the same file. There are also powerful new time-saving options for simultaneously finding and replacing the color or color model of an outline or fill, including mesh fills.

✓
ENHANCED!

✓

Compatibility with latest file formats

Choose from more than 100 up-to-date vector graphics, bitmap image, document and other data file formats supported for import and export capabilities. Expanded file format support includes .SVG, CGM, .DWG and .DXF, .PDF, TIFF and Adobe CS/CC (AI, PSD).

ENHANCED!
100+

✓

100+

✓

100+

✓

100+

✓

100+

SharePoint CMS integration**(Exclusive to CoreIDRAW Enterprise license)**

Gain additional collaboration and sharing benefits from the connectivity of Corel DESIGNER and CoreIDRAW to Microsoft SharePoint sites. Get direct access to your organization's Document Management System (DMS) from within the visual communication authoring applications.

✓

✓

✓

AutoCAD .DWG / .DXF support

Improved and updated support for .DWG (incl. AutoCAD 2020, CorelCAD™ and others) and .DXF ensures easy, error-free data conversion. Enhanced support for editable dimensions in .DWG/.DXF files on import and export.

✓
ENHANCED!
(R2.5 - v2020)

✓

(R2.5 – v2019)

✓

(R2.5 – v2019)

✓

(R2.5 – v2017)

✓

(R2.5 – v2015)

Micrografx Designer support (DSF, DRW, DS4)

Backward compatibility with Micrografx Designer helps you work seamlessly with legacy files

✓

✓

✓

✓

✓

3D import

Import, view and modify 3D models, including AutoCAD .DWG and .DXF, 3D Studio (.3DS), IGES and Virtual Reality Modeling Language (VRML).

✓

✓

✓

✓

(✓)

Native 3D CAD support (optional add-on)

Open and work with the latest 3D CAD file formats, including CATIA, PTC Creo, SolidWorks, Autodesk Inventor, NX, IGES, STEP, JT and more.

✓
ENHANCED!
(XVL Studio 3D CAD
Corel Edition 2020)

✓

(XVL Studio 3D CAD
Corel Edition 2019)

✓

(Lattice3D Studio CAD
Corel Edition 2018)

✓

(Lattice3D Studio CAD
Corel Edition 2017)

✓

(XVL Studio 3D CAD
Corel Edition)**RAW camera support**

Import and adjust RAW camera files directly from your digital camera, and preview changes in real time.

✓
UPDATED!

✓

✓

✓

✓

Vectorization of scanned blueprints

Smoothly convert bitmaps and scanned images into editable vector graphics with PowerTRACE™. New AI-assisted features deliver the best bitmap-to-vector trace results yet, and cutting-edge image-optimization options help improve the quality of a bitmap as you trace it..

✓
ENHANCED!

✓

✓

✓

✓

COLLABORATE AND PUBLISH TO TECHNICAL COMMUNICATION STANDARDS**NEW! Collaboration workflow***

A new workflow makes collaborating with colleagues and clients easier than ever. Using new collaboration features in CorelDRAW 2020 and Corel DESIGNER 2020 in tandem with CorelDRAW.app and Corel Cloud, teams can easily review designs and illustrations, and feedback can be implemented faster.

**NEW!****CorelDRAW.app™**

Use CorelDRAW.app™, the online vector illustration and graphic design web-app to gather feedback from a client, or to access your work remotely when you're not near your computer.

**ENHANCED!****PDF output**

Output PDF files, with support for latest Adobe Acrobat files, compliant with the latest industry and print standards, heightened security encryption, and the ISO-compliant PDF/A archiving format. Plus, support for PDF/X-4 helps ensure easy output of files that are compatible with the widest range of devices.

**ENHANCED!****3D PDF Publishing**

Publish to 3D PDF with interactive viewing of 3D content in combination with other visual and text elements.

**ENHANCED!****Publish to WordPress**

Send your work directly to a WordPress media library from within the application. This functionality lets you convert selected objects or an entire project to a JPEG, GIF, or PNG file and then upload to a WordPress account.

**Translation Memory System (TMS) support**

Reach a worldwide audience with an option that allows you to send text content from your graphics file in Corel DESIGNER to Translation Memory Systems (TMS) using XLIFF standard, and receive translated content from TMS.

**CGM V4 (WebCGM, ATA Grexchange, ActiveCGM)**

Work with industry-standard CGM profiles for interactive technical documentation with hotspots. Corel DESIGNER 2020 offers an advanced CGM export dialog, and includes support for ATA iSpec 2200.ed Parts Catalogs (IPC), including support for S1000D Issue 2.3 – 5.0.

**ENHANCED!****WebCGM 2.0, 2.1 + S1000D support**

Create, interchange, and deliver standardized technical illustrations for Interactive Electronic Technical Manuals (IETM) and Illustrated Parts Catalogs (IPC), including support for S1000D Issue 2.3 – 5.0.



(S1000D Issue 5.0)



(S1000D 4.2)



(S1000D Issue 4.2)



(Up to S1000D Issue 4.1)



(S1000D Issue 4.0 only)

SVG output

Publish SVG, the HTML 5 supported vector graphics file format for online publication of scalable graphics. When automated as a background task, it enables advanced integration with Technical Authoring systems and any Content Management System (CMS).

**Publish 3D online and to mobile devices**

Save 3D models to XVL format and share 3D visualizations online or on mobile devices with free XVL Player and iXVL apps.



USER INTERFACE**NEW! Comments docker**

The new Comments docker in CoreIDRAW and Corel DESIGNER 2020 acts as your collaboration hub, where you can view, respond to, and resolve feedback, as well as add annotations and notes of your own. This also means no more marked-up PDFs or image files, saving you time and screen space.

**Workspaces**

Choose from a variety of workspaces designed for different proficiency levels and specific tasks: Page Layout and Illustration, a Classic option for longtime users, Technical Illustration for pros doing isometric illustrations, Diagramming for pros using flowcharts and diagrams, and workspaces with the look and feel of Adobe Photoshop and Adobe Illustrator.

**Technical Illustration workspace**

The updated Technical Illustration Workspace offers better grouping of commonly used features, helping you work faster and more efficiently.

**Support for UltraHD display**

An updated interface and support for High DPI displays let you comfortably view the applications on even UltraHD (ultra high definition) monitors.

**Advanced multi-monitor support**

CoreIDRAW, Corel DESIGNER and Corel PHOTO-PAINT function reliably across multiple monitors of varying DPI, on all supported operating systems.

**Fully scalable and customizable UI**

You can adapt your design space to your needs with the updated and fully customizable interface. Newly designed icons allow scaling up to 250%. You can lighten or darken the application background by choosing a theme.

**Touch-friendly user interface**

Tablet Mode support helps you sketch on the fly and make quick adjustments using touch or a stylus. Plus, the Touch workspace streamlines the UI to maximize the size of your drawing window by displaying only the tools and commands you're most likely to use.

**Microsoft Surface support**

CoreIDRAW Graphics Suite and Technical Suite 2020 offer native Microsoft Surface Dial support on Windows 10. Use the CoreIDRAW, Corel DESIGNER and Corel PHOTO-PAINT applications in the suite, to experience one of the most unique ways to create and interact with technology.

**Multiple document interface**

Work with multiple documents in a tabbed view.



PERFORMANCE, SPEED AND EFFICIENCY**Performance**

Enjoy notable improvements in startup time, editing speed, brush performance, color replacement, and more.

✓
ENHANCED!

✓

✓

✓

✓

GPU accelerated vector preview

Reposition and edit complex vector shapes without taxing your system's resources. Using the graphics processing unit (GPU) may accelerate the display, editing, and manipulation of graphics in Corel DESIGNER, CorelDRAW and Corel PHOTO-PAINT on some machines.

✓
ENHANCED!

✓

✓

Native 64-bit computing

Benefit from the speed of native 64-bit applications when processing large files and images.

✓

✓

✓

✓

✓

Optimized for Windows 10

With support for Windows 10, you can confidently use your CorelDRAW product on the latest Windows operating system.

✓
(v1903 and later)

✓
(v1803 - v2004)

✓
(v1607 - v1809)

✓
(Up to v1709)

Automation capabilities

Create macros and add-ins using the built-in automation interface. Easily create connections to Content Management Systems (CMS), Product Lifecycle Management (PLM) and Product Data Management (PDM) Systems.

✓
(VSTA 2019 & VBA 7.1;
JavaScript)

✓
(VSTA 2017 & VBA 7.1;
JavaScript)

✓
(VSTA 2017 & VBA 7.1)

✓
(VSTA 2015 & VBA 7.1)

✓
(VSTA 2012 & VBA 7.1)

CONTENT**Symbols (referenced graphics objects)**

Reduce file size and work on common objects by defining and updating an object once and reusing it many times. Access more than 4,000 industry-standard symbols: Architectural, Electrical, General, Mechanical, and tools.

✓

✓

✓

✓

✓

Professional clipart**

Kick start your creativity with over 7,000 (clipart, digital images, and vehicle templates) for your designs and projects.

✓

✓

✓

✓

✓

High-quality photos**

Enhance your designs with 1,000 high-quality photos at your creative disposal.

✓

✓

✓

✓

(✓)

Specialized fonts**

Choose from an extensive font selection that contains over 1,000 professional fonts.

✓

✓

✓

✓

✓

Design templates**

Get going quickly with more than 150 professionally designed templates, and 40+ technical ANSI, DIN, and ISO standard templates.

✓
ENHANCED!

✓
ENHANCED!

✓

✓

✓

*Note: Collaboration features are only available with a CorelDRAW subscription or a perpetual license with Maintenance.

**In order to access this collection of tools, you need to be connected to the Internet. Purchase and authentication of CorelDRAW Technical Suite 2020 are required.

✓ = Feature included

(✓) = Limited feature availability