ColorWave 3800

COLORWAVE 3000 SERIES

Built for Excellence

SMART CHANGE STARTS HERE.

BUILT FOR EXCELLENCE

Based on more than 10 years of proven technology, the ColorWave 3000 series inspires confidence with its convenient, hassle-free operation, high print quality, and outstanding reliability, when each detail counts. The ColorWave 3000 series is a flexible printing system that is ideal for both technical document and graphic arts print providers. The ColorWave 3000 series is full of smart, time-saving innovations that help reduce misprints and costs.

With automated roll switching, excellent workflow software, and a full range of well-tuned peripherals, the ColorWave 3000 series is capable of producing a broad application range with minimal operator intervention. Sophisticated security features support the safeguarding of your data, not only today, but into the future. The ColorWave 3000 series includes two models: the ColorWave 3600 for worry-free walk-up printing, and the ColorWave 3800 for users that require higher media capacity and even more media versatility.

ColorWave 3600

ColorWave 3800

A JOY TO WORK WITH

The ColorWave 3000 series offers hassle-free operation and high print quality in a convenient, cost-effective solution.

The ColorWave 3000 series printers are built for productivity: equipped with smart, time-saving innovations and easy-to-use functionalities that help reduce misprints.

Easy to use in every way

The ColorWave 3000 series printers help to ensure you get your prints out quickly and worry-free. The ClearConnect software suite and user interface supports your management of complex jobs with ease, and helps to ensure first-time-right printing. Submit jobs easily via the Publisher Select application, with automatic What You See Is What You Print previews to keep misprints to a minimum. Driver Select, the large format printer driver for Windows, further helps to reduce errors and gives you first-time-right results, with its clear and easy-to-use functionalities. And with Driver Express, you can print PostScript files in Mac and Windows environments.

The ColorWave 3000 offers "green-button printing." The smart, automated print settings require minimal operator intervention to achieve excellent output to help meet your highest expectations. The Print Assistant automatically suggests the right print mode for your job. Media requirements are detected automatically and the printer switches directly to the correct roll. When scanning or copying, the Image Logic scanning technology helps turn damaged or folded originals into accurate, high quality scans and copies.

Fits your workflow like a glove

The ColorWave 3000 series meets industry-standard security compliance. Canon's secure POWERsync controller, running on Windows 10 IoT OS, allows for convenient and fast job processing, and its open architecture enables integration with a variety of print management applications. Handle incoming jobs with ease and confidence.

The ColorWave 3000 series offers productivity levels you can depend on. The powerful and reliable POWERsync controller provides lightning-fast job submission, and enables you to use the submission software, drivers, and control software that fit the way you work. The system is ideally suited to handle peak volumes when the pressure is on.

Ergonomic ease of use

The ColorWave 3000 series supports increased productivity with its simple and convenient roll loading method, automated roll switching, automatic roll width detection, and easy paper feeding. The rotatable user interface means you can operate the printer from the most convenient position that suits you. Collect your prints from the top delivery tray or your preferred finishing device.

POWERsync | ClearConnect | Image Logic

THE FLEXIBLE CHOICE

Create a wealth of large format applications with ease.

A wealth of applications

The ColorWave 3000 series can print on a broad range of media, offering an extensive variety of applications: from high quality technical documents, to full-color graphics. With a media capacity of up to six rolls, the ColorWave 3800 model enables you to productively mix applications and run very large jobs without interruption. It also offers MediaSense technology that automatically adjusts the gap between imaging devices and media, for high quality output without manual adjustments, when printing on media of differing thicknesses. This gives you the ability to grow application volumes for a faster return on investment. The versatile CrystalPoint printing technology offers instant-dry prints with no feathering and excellent fine details on a variety of media types: from thin, uncoated, to thick poster media and even vinyl. The Onyx software helps you integrate your ColorWave 3000 printer easily into your graphic arts workflow.
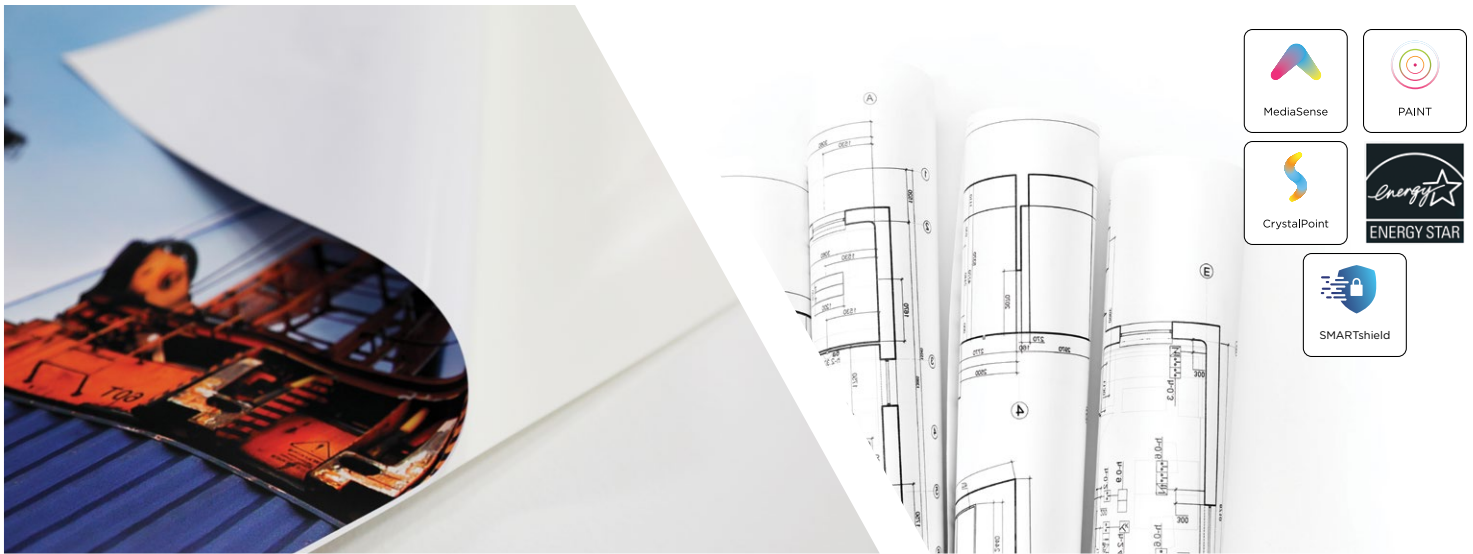
Get the complete package

With the ColorWave 3000 series, you are investing in a system that supports you whatever your needs: whether you are printing monochrome or color, this system does it all. Combined with its large 6-roll media capacity, the ColorWave 3000 series produces large format technical documents and graphic arts applications efficiently and with minimum operator intervention. If you need to scan and copy as well as print, the Image Logic scanning technology helps turn imperfect originals into perfect scans and copies.

Tune your print-to-finish solution to your workflow preferences with the Folder Express 3011 and Stacker Select.

Ready to serve you for many years to come

The ColorWave 3000 series printers are built to last. These highly reliable systems offer excellent uptime and there is no daily maintenance required. As a true workhorse, the ColorWave 3000 series uses durable parts with a long lifetime. The printer itself is built for robust, safe printing for years on end, using proven technologies. The Canon Solutions America service organization offers outstanding support based on decades of experience.

CONFIDENTLY MEETS YOUR HIGH STANDARDS

Highly reliable technology

The 6th generation ColorWave 3000 series uses Toner Pearls: a proven technology with more than 10,000 installations worldwide. The Toner Pearls are heated and then jetted onto the media with extreme precision. The multi-pass CrystalPoint print technology helps provide crisp, rock-solid print quality.

Whether you are looking to print a technical document, high quality render, map, or full-color outdoor advertising banner, the ColorWave 3000 series has the quality you need: sharp lines, high readability, fine details, and smooth and even area fills on a consistent basis.

The reliable multi-pass print technology allows details to print accurately. The ColorWave 3000 series offers the ability to print high quality, full-color representations.

Print on a wide range of media, even uncoated, and still get robust prints thanks to CrystalPoint. Prints are instant-dry, robust, and water resistant, without need for lamination.

The ColorWave 3000 series, with its PAINT technology, applies nozzle-failure compensation on the fly, to avoid misprints and maintain high throughput. This helps to ensure consistent print quality between the first and last print throughout the lifetime of your printer. MediaSense technology automatically adjusts the gap between its imaging devices and media, to support high quality prints on a broad range of media.
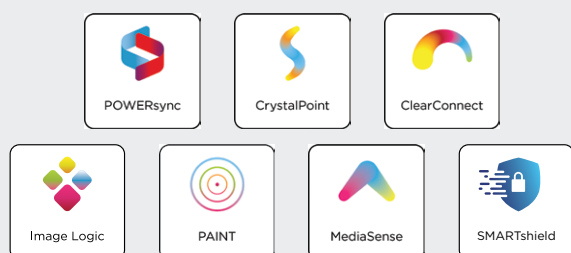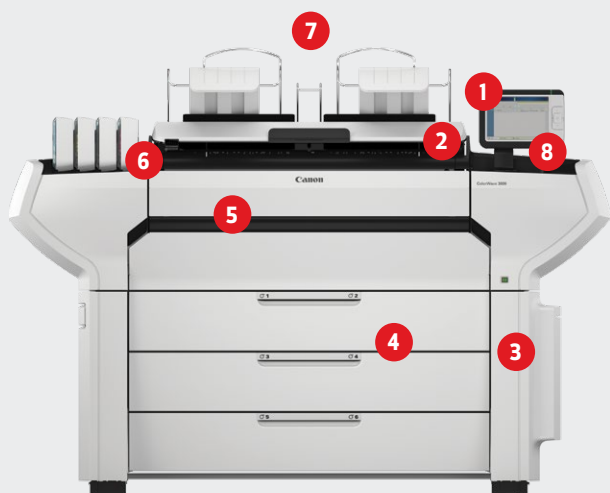
SMARTshield helps to protect your data during each phase of the print process. It also supports the safeguarding of that data as well as user credentials while files are sent to your printer—from any device. Since a printer is generally not used as a long-term data storage solution, SMARTshield also follows data shredding and proper deleting protocols to help maintain security.

There is also the option to remove the hard disk when the printer is decommissioned. Robust user authentication helps provide document security for users and activity control for budget managers. Hack prevention helps guard against malicious intrusion. All these security measures have been built for the long term: with software support, security updates, and remote service.

Supporting a healthy environment, on all levels

CystalPoint technology supports a healthy working environment. The printing process emits no fine dust, ozone, or odor, and the Toner Pearls are non-toxic. Furthermore, the low sound levels produced by the ColorWave printer help make for a comfortable work environment. The ColorWave 3000 series is also certified with the ENERGY STAR® label for low energy use.

Support for various recycling initiatives are standard: you can print on uncoated or recycled media, for example, and the prints are deinkable for better paper recycling. In our continued efforts to promote a circular economy, at the end of its life, the ColorWave 3000 printers can be remanufactured and reused by Canon.

POWERsync · **CrystalPoint** · **ClearConnect**

Image Logic · **PAINT** · **MediaSense** · **SMARTshield**

1 Easy-to-Use Walk-Up Printing
- Manage complex jobs and help avoid misprints with the intuitive ClearConnect software suite and user interface that supports multiple driver software applications.
- Experience true green-button printing: the right print settings for excellent print output with minimal operator intervention.
- Enjoy ergonomic operator access with the rotatable user interface to control print collection. Easily collect your prints from top delivery tray or finishing device.

2 Superior copy and color scanning results
- Image Logic technology automatically compensates for wrinkles and light colors to produce superior results. Insert originals face-up, and paper width is automatically detected.
- Help turn imperfect originals into perfect copies and scans with Image Logic scanning technology.
- Create 1-touch Scan Templates to capture commonly used settings, or to require standardized department scan settings.

3 POWERsync Controller supports productivity and security
- The POWERsync controller, which runs on Microsoft Windows 10 IoT Enterprise OS, helps to provide convenient, fast, reliable, and secure multitasking.
- Concurrency. Scan and copy while printing.
- The open interface of the POWERsync controller also enables the printer to embed software, like uniFLOW.

4 Productively mix applications and run large jobs
- Gain media capacity and application diversity with up to six rolls (42-inch width and 656-foot total length).[1]
- Help save operator time on media handling with the easy roll replacement, automatic roll width detection, and easy paper feeding.

5 Confidently meets your high standards
- Rely on high-quality prints. Toner Pearls technology are heated and then jetted onto the media with extreme precision for prints that are crisp, instantly dry, and water resistant. Get sharp lines, high readability, fine details, and smooth, even area fills on a consistent basis.
- Help reduce costs with the PAINT technology that automatically predicts and compensates for nozzle failure to help prevent ruined prints.
- Become more versatile. MediaSense technology[2] automatically adjusts the gap between the image device and media for high quality output on a wide range of media, from thin, uncoated paper to vinyl.

6 Ready to serve you for years and years
- The mature, non-toxic Toner Pearls technology supports a healthy working environment as it does not emit fine dust, odor, or ozone emissions and leaves minimal waste.
- Be eco-friendly. The ENERGY STAR-certified machine is designed with long-lasting parts for remanufacturing and re-use by Canon Solutions America, forerunners in circular economy. CrystalPoint prints are suitable for recycling efforts thanks to high deinkability from the Toner Pearls toner that lies on top of the paper for easier separation.
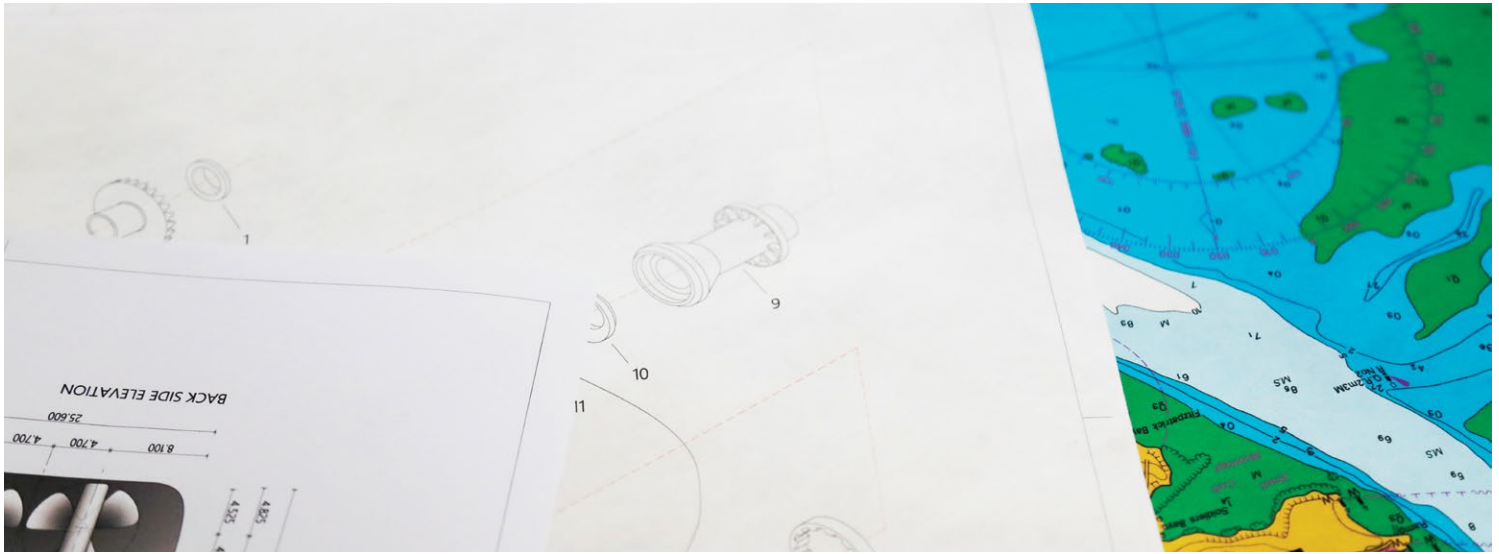
7 The versatile choice for your business, now and in the future
- Get the complete package with the fully integrated peripheral portfolio, perfectly tuned to the printer, including folding and stacking options, such as the Stacker Select which provides an additional 400 sheets (E-size) capacity.
- Rely on consistent print quality and high uptime backed by an experienced service organization. No daily maintenance is required and the machine uses few consumables.

8 SMARTshield helps protect your data
- Protected in all phases of the print process with encryption protocols.
- Helps to make deletion secure by data shredding protocols.

[1,2] *Available exclusively with the ColorWave 3800 printer.*

ColorWave 3600 4-Roll Printer with Folder Express 3011

ColorWave 3800 6-Roll Printer with Stacker Select

WHY CANON SOLUTIONS AMERICA

Canon Solutions America recommends forward-thinking strategies to help achieve the highest levels of information management efficiency for your unique business needs. Using superior technology and innovative services, we then design, implement, and track solutions that help improve information flow throughout your organization while considering the environment, which can aid in greater productivity and reduced costs.

There are many reasons why you should choose Canon Solutions America as your provider for document management solutions. Benefits include:

- A Canon U.S.A. Company
- Business Services
- Professional Services
- Global Monitoring Capabilities
- Certified Training and Support
- Flexible Finance Options

- Single-Source Solutions Provider
- Managed Document Services
- Nationwide Coverage
- Customized Industry Solutions
- Genuine Canon Parts and Supplies
- Diverse Range of Input-to-Output Technology

But that's not all. As a company that is dedicated to your needs, we support our solutions with highly skilled professionals and advanced diagnostic systems to help maintain peak performance. And with ongoing consultation, we can further your document management capabilities to help ensure the highest level of satisfaction and productivity.

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CANON SOLUTIONS AMERICA

1-800-842-4534 | 1-630-250-6551
us.info@csa.canon.com CSA.CANON.COM

ColorWave 3600

Canon

ColorWave 3600

BUILT FOR EXCELLENCE

Create a wealth of Large Format applications with ease

Print excellent, high quality prints in color and monochrome on a wide range of media. The ColorWave 3600 printer offers hassle-free operation and high print quality in a convenient, cost-effective solution. The ColorWave 3000 series printers are built for excellence: equipped with smart, time-saving innovations and easy-to-use functionalities that help reduce misprints.

SMART CHANGE STARTS HERE.

TECHNICAL SPECIFICATIONS

GENERAL	
Applications	Color and B&W technical drawings; maps, unfolded and folded; POP/POS posters; Graphic Arts applications like posters, wallpapers, banners, wrapping paper.

TECHNOLOGY	
Print Technology	CrystalPoint Technology.
Imaging technology	The printer contains 8 Imaging Devices, 2 for each color (CMYK).
Toner	ColorWave 3600 printer uses Cyan, Magenta, Yellow, and Black TonerPearls, 500 gram/color. Clean toner refill, no toner dust, no residue, no ozone emission
Print Speed	Monochrome CAD: 225 A1/D/hour (high speed mode) Color CAD 212 A1/D/hour (high speed mode). 4 A1/D/min. Color posters 3,960 sqft/day (production - fast)
Productivity	B&W CAD: 225 A1/D-sizes per hour (113 m^2/hour), 129 A0/m^2/E-sizes per hour (high speed mode) Color CAD: 212 A1/D-sizes per hour (106 m^2/hour), 120 A0/m^2/E-sizes per hour (high speed mode)
Print modes	4 print modes, the Print Assistant automatically determines the best print mode based on the content, without need for user intervention. Manual selection is possible.
Resolution Imaging Devices	True resolution: 600 x 600 dpi
Resolution Droplet aligning accuracy	1200 dpi (corresponds to 20 microns)
Automated functions	• PAINT technology (Piezo Acoustic Integrated Nozzle Technology) • Applies sophisticated diagnostics, maintenance and error corrections to overcome common nozzle issues that occur with conventional inkjet printers even while printing • Image Logic technology - an intelligent, easy to use solution that helps you consistently turn imperfect orginals into high-quality copies and scans without any hassle • Automated print language recognition • Automated print mode selection (Print Assistant) • Automatically suggests the right print mode for your job • Automatic roll selection • Automatic rotation and alignment for folding and legend detection

PRINTING SYSTEM CONFIGURATION	
Printer	Color and monochrome printer based on CrystalPoint technology, high performance POWERsync Controller with 4 Core, 4 Thread Core i3-8100 processor
Printer Dimensions (WxDxH)	82.7" x 34.5" x 63.2" (2,100 x 875 x 1605 mm)
Printer Shipping Dimensions (WxDxH)	89.4" x 47.1" x 60.9" (2271 x 1196 x 1547 mm)
Printer Weight	556 lbs. (252 kg) - printer and one drawer
Printer Shipping Weight	745 lbs. (338 kg) - printer and one drawer
Earthquake provision	Secure the printer against moving or tilting during an earthquake. This provision enables the user to secure the printer to a sturdy element of the building.
Standard Stacking System	Integrated Top Delivery Tray, 90-sheet capacity
Optional Stacking System	Stacker Select; 400-sheet capacity
Optional Finishing Devices	Folder Express 3011

MEDIA HANDLING	
Technology	Auto switching technology: • The correct roll for a print job is selected automatically based on the media type and roll width • Automatic roll switching when the end of roll is reached • Automatic width detection
Media cutting	Automatic
Media Rolls	Two or four rolls (one drawer = two rolls, two drawers = four rolls)
Media capacity	Up to 2,600' - 650' on a roll (800 m - 200 m on a roll)
Media weight	Paper: 16 - 43 lbs; 60 - 160 g/m2 Film: 2.5 - 8 mil
Media thickness	Paper: 8 mil; 200 um Film: 2.5 - 8 mil

Roll length	Up to 650' (200 mm)
Roll width	All widths between 11-42" (297-1,067 mm) including standard sizes DIN, ANSI, ARCHI
Roll diameter	up to 7.1" (180 mm)
Roll core diameter	3 in and 2 in cores (media on 2 in core to the external output not to the Top Delivery Tray) Media loose on core
Roll weight	Up to 44.1 lbs (20 kg)
Maximum printed width	42" (1,066 mm)
Maximum printed length	Up to 656'; 164' guaranteed (200 m; 50 m guaranteed)
Media Types	Uncoated papers, uncoated Tyvek, self-adhesive papers, self-adhesive coated vinyls, blue back papers, polypropylene films, polyester films, light block films, soft banner, instant dry photo paper, backlit film

CONTROLLER

Operating System	Windows 10 iOT LTSC, 64 bits
Processor	4 Core, 4 Thread Core® i3-8100 @3.6GHz
Memory	8 GB DDR4
Hard Drive	2x 500 GB, 7200 rpm (standard)
Video	Intel HD Graphics, 1GHz
Print Language (Standard)	TIFF, JPEG, HPGL, HPGL2, DWF, C4, Calcomp 906/907/951, CALS, NIRS, NIFF
Print Language (Optional)	ColorWave 3500 printer PDF/APPE license provides access to Driver Express for Adobe® PostScript®3 and PDF 1.7. It enables the Adobe CPSI (Configurable PostScript Interpreter) and the APPE (Adobe PDF Print Engine) four components.
Access management	Provide secure access to device by users by keying in password on the ClearConnect multi-touch operator panel or get access with a Smart Card by connecting a card reader (including contactless). Authorization is managed by using Active Directory.
Cloud support	Unlimited user and or Administrator authenticated cloud support via WebDav and/or third party provider: e.g. Microsoft® SharePoint®, Dropbox®, Box.com, box.net, Google® Drive®, Microsoft® OneDrive®, Amazon Cloud Drive®, Cloudsafe®, MyDisk®, PlanWell Collaborate.
Transformations	Scaling; Scaling (scale-to-fit page, reduce when image too large to avoid clipping or to custom factor, scale page size to standard size), Rotation, Shift (automatic or user defined), Adding/removing trailing/leading edge, Mirror, Black intensity in poster mode, Print optimization (standard, lines/text, poster). Color Highlight and Dark Original. Area to erase (area of interest).
Color management	• RGB input profile (sRGB, AdobeRGB) • CMYK input profile (Euroscale coated, Euroscale uncoated, US Web coated (SWOP), US Web uncoated, ISOcoated_v2_eci_300.icc, ISOcoated_v2_eci.icc (FOGRA39), PSO Uncoated ISO12647-ECI (FOGRA47), GRACoL2006_Coated1v2.icc, SWOP2006_Coated3v2.icc, SWOP2006_Coated5v2.icc, UncoatedFogra29.icm • Grey profile (standard included in the PDF/APPE option) • Rendering intent (perceptual, saturation, absolute colorimetric, relative colorimetric)
Smart inbox	Personalized Smart Inbox with history, Manage queue, Manage history, WebTools Express, Secured controller access

SCANNER

Description:	• Scanner Express is a Contact Image Sensor (CIS) color scanner, offering full hybrid performance with its scan-to-file functionality/ Image Logic technology automates image enhancement and corrects for color highlight, folding lines, weak info, background, and more. • Send files via SMB, FTP or WebDAV to various locations such as local drives, personal Smart Inboxes, or the cloud application of your choice. Scan to USB or use Mobile WebTools and Publisher Mobile to scan to mobile devices. • Custom scan file naming to any location. Checkpoint functionality. • ClearConnect supports live preview of the scanning process on the user panel. • Scan to many formats, including Adobe PDF.
Scan resolution	600 x 600 dpi
Scan speed	49.9'/min monochrome scanning; (15.2 m/min monochrome scanning) 16.4'/min color scanning (5.0 m/min color scanning)
Scan formats	TIFF, PDF, PDF/A, JPEG, CALS, multi-page PDF, multi-page PDF/A and multi-page TIFF
Scan destination	Local USB flash drive, FTP, SMB, Smart Inbox on Controller, Optional Local Home folder (LDAP), mobile device via Publisher Express, WebDAV Clouds, PlanWell Collaborate.
Scan protocol	FTP, SMB, scan to cloud (push to WebDAV based clouds)
Original width	8.2" - 38" (208-914 mm) automatic width detection
Original length	8.2"-630" (208 - 16,000 mm) - file type dependent, longer than 630" (16,000 mm) for smaller originals, automatic length detection
Original thickness	Maximum 0.03" (0.8 mm) - non-rigid documents
Zoom (copy)	1:1, Scale to media size, Scale to standard format, Custom: 10 - 1000%
Preset Modes	Blueprint, Colored original, Dark original, Folded lines/text, Lines/text standard, Lines/text draft, Photo, Map, Artwork
Scanner Size (WxDxH)	43" x 12" x 5.5" (1,097 x 308 x 140 mm)
Scanner Weight	55 lbs (25 kg)

USER INTERFACE

Description	ClearConnect multi-touch user panel • Rotatable touchscreen for accessing local job management, the Smart Inbox, SmartAccess, Live Preview, printer status, and maintenance control. Consistent look and feel from every angle of your workflow.
User Interface Size (WxDxH)	11.8" x 8.7" x 1.6" (300 x 220 x 40 mm); Touchscreen: 10.4" (264 mm)
Resolution	800 x 600 pixels (SVGA)
Number of colors	16.2 Million
Operation	• 3 hard buttons: [Wake-up], [Stop, interrupt, abort], [Home] • Multi-touch functions: tab, double tap, pinch, 2 finger pinch, swipe, flick and spread.
Interface design	iF Design award: Distinctive user interface with intuitive navigation and clearly defined levels of operation.
Features	• View optimization: Tilt (-4 to +45 degrees) and turn (-45 to +180 degrees) • Status light (red, orange, green) • USB 2.0 interface with indication light
Languages	Switch instantly between 2 languages, select from 20 languages; Czech, Danish, German, English-UK, English-US, Spanish, Finnish, French, Hungarian, Italian, Japanese, Korean, Dutch, Norwegian, Polish, Portuguese, Russian, Swedish, Chinese simplified, Chinese-traditional.

CLEARCONNECT WORKFLOW

Description	Concurrent printing, copying, scanning, and file processing of single documents or sets.
Printer Drivers	Driver Express for Adobe PostScript 3, Driver Select for Microsoft Windows
Job submission	Create, retrieve and/or send jobs from diverse external locations (SMB, FTP, LPR, WebDav), Mobile devices via WebTools Express and Publisher Mobile, USB flash drive, Cloud services, ONYX® Thrive, and optional Home folder(LDAP).
ClearConnect	• The ClearConnect software suite consists of a variety of applications that all have the same user interface. Default jobs can be performed on by clicking the green button (SmartAccess for Print, Scan and Copy). Behavior and presets are customizable via WebTools Express. Edit the most commonly used job settings for copy, scan, and print jobs. • Use the Smart Inbox to view all jobs with status, job name, and owner. • Actions to print, print all, edit, send to, delete and save. Custom sorting of jobs in list or group view. • Open API for third-party or self-developed applications integrated with the ClearConnect user panel.
Device Management via WebTools Express	WebTools Express provide administrators the tools to manage the device remotely via the web: e.g. check printer status, define default settings for print, copy and scan, define access, security, accounting, remote shutdown, software update and restart, power on/off timer, system behavior, queue management, license management, view, create, edit and delete stamp templates, etc. It also provides live system feedback via the web, enabling efficient help desk support.
Queue management	Spool memory provides a queuing system for print and copy jobs. This enables multiple users to send print and copy jobs at the same time. Customize priority settings for copy and print jobs in the queue. The Job Queue overview gives access to job names, owners, and status including required media. Jobs can be paused, deleted, and placed on top of the queue.
Accounting (Standard)	WebTools Express: View the counter history at preferred time periods, per job, or total overview.
Accounting (Optional)	Direct Accounting Software
Mobile and Cloud	Print from and scan to the cloud application of your choice. With the help of mobile applications such as Publisher Mobile, the printer can be easily accessed and used from any location.

NETWORK INFORMATION

Client Operating System Support	• Windows 7 / Windows 7 64 bits / Windows 8.1 / Windows 8.1 64 bits / Windows 10 / Windows 10 64 bits / Windows Server 2008 R2 64 bits / Windows Server 2012 64 bits / Windows Server 2012 R2 64 bits • Mac OS 10.10 / Mac OS 10.11 / Mac OS 10.12 (Driver Select support only for Mac OS)
Interface Design	• 2x Ethernet 100 Mbits/s, 1 Gbit/s • TCP/IP: DHCP, IPv4, IPv6, HTTPS • Discovery: APIPA, WS-Discovery, SNMP v3
Protocols	• Network protocols: TCP/IP • Printing protocols: LPR, LPR to DRP, FTP, WebDAV Collaborate, WSD print • Backchannel protocols: SNMP v3, ColorWave interface, WS-Discovery

SMARTshield Security	• HTTPS, extended security protection for administrator, audit logging • Configurable HTTPS Certificates, Ipsec, EWT LDAP Authentication, E-shredding, access control. Allow disabling TLS 1.0 and 1.1 protocols (no response to network scan) and enable TLS 1.2+ include stronger cipher (enable/disable). Unused interfaces can be disabled, software updates are secure, and SNMP is read-only • Access Management: user authentication on local ClearConnect user panel via Express WebTools • FIPS 140-2 Certified TPM • Secure boot • User authentication on local UI for FTP, SMB, and WebDAV. Disk Encyption AES 256, Support 802 1x Authentication • Removable Harddrives (optional) • McAfee Application control "whitelisting" License (optional)

ENVIRONMENTAL & SAFETY

Ozone Emissions	Zero
Heat emission	Ready: 214 W; Printing: 395 W
Operating temperature	59-95 F (recommended: 68-81 F); 15-35 C (recommmended 20-27 C)
Operating humidity	20 – 80% RH (recommended: 30 – 60% RH)
Power requirements	100 - 240 V; 50 - 60Hz
Power consumption	Sleep mode: <2.5 W Ready mode: 199 W Active mode: 380 W
Acoustic Sound Power:	Ready: < 4.7 B(A) Printing: < 6.9 B(A)
Acoustic Sound Pressure	Ready: < 36 dB Printing: < 57 dB
Certifications	CE, TüV GS, CETECOM, c-UL-US, CB, RCM, ENERGY STAR, FEMP, EPEAT, CCC, EAC, FCC Class A, VCCI Class A, Greenguard Gold
Recyclables	• Printer: made of steel and highly recyclable plastics, min 86% of the engine can either be upcycled or recycled. • Toner: cartridge packaging reused as maintenance cassette and made of recyclable plastic. • Prints: very good deinkability when recycled.

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Large Format Solutions
100 Park Blvd., Itasca, IL 60143

1-800-842-4534 | 1-630-250-6551
us.info@csa.canon.com CSA.CANON.COM