

Canon

ColorWave 3800



SPEC SHEET

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 3800 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.

GENERAL

Applications	Color and monochrome technical drawings; maps, unfolded and folded; POP/POS posters; graphic arts applications like posters, wallpapers, banners, wrapping paper, and fine art.
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TECHNOLOGY

Print Technology	CrystalPoint Technology
Imaging Technology	The printer contains 8 imaging devices, 2 for each color (CMYK).
Toner	ColorWave 3800 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 sq. ft./day (production - fast)
Productivity	Monochrome 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	<ul style="list-style-type: none"> • 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 • MediaSense technology — automatically adjusts to the optimum printing gap between the media and the imaging device once for every type of media. This allows you to print on thicker media (up to 30mil/800 μm thick) • Image Logic technology — an intelligent, easy-to-use solution that helps to consistently turn imperfect originals into high-quality copies and scans without the 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 6 Core, 6 Thread Core i5-8500 processor
Printer Dimensions (W x D x H)	82.7" x 34.5" x 63.2" (2100 mm x 875 mm x 1605 mm)
Printer Shipping Dimensions (W x D x H)	89.4" x 47.1" x 60.9" (2271 mm x 1196 mm x 1547 mm)
Printer Weight	639 lb. (290 kg), printer and two drawers
Printer Shipping Weight	829 lb. (376 kg), printer and two drawers
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: <ul style="list-style-type: none"> • 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	Four or six rolls (two drawers = four rolls; three drawers = six rolls)
Custom Media	Custom media support, including automatic calibration, no tooling or training required
Media Capacity	Up to 3,900' - 650' on a roll (1200 m - 200 m on a roll)

Media Weight	Paper: 16 – 53 lb.; 60 – 200 g/m ² Film: 2.5 - 8 mil
Media Thickness	Paper: 30 mil; 800 μm Film: 2.5 - 8 mil
Roll Length	Up to 650' (200 mm)
Roll Width	All widths between 11 - 42" (297 mm - 1067 mm) including standard sizes DIN, ANSI, ARCHI
Roll Diameter	up to 7.1" (180 mm)
Roll Core Diameter	3-inch and 2-inch cores (media on 2-inch core to the external output not to the Top Delivery Tray), media loose on core
Roll Weight	Up to 44.1 lb. (20 kg)
Maximum Printed Width	42" (1066 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, blue back papers, textile types, canvas, coated & uncoated non-woven wall paper (fleece), wallpaper, several natural and synthetic textiles

CONTROLLER

Operating System	Windows® 10 IoT LTSC, 64 bits
Processor	6 Core, 6 Thread Core i5-8500 @4.10 GHz
Memory	8 GB DDR4
Hard Drive	2x 500 GB, 7200 rpm (standard)
Video	Intel HD Graphics, 1 GHz
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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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, multipage PDF, multipage PDF/A, and multipage 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 - 16000 mm) file-type-dependent; longer than 630" (16000 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" (1097 x 308 x 140 mm)
Scanner Weight	55 lb. (25 kg)

USER INTERFACE

Description	ClearConnect multitouch user panel <ul style="list-style-type: none"> 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 (W x D x H)	11.8" x 8.7" x 1.6" (300 mm x 220 mm x 40 mm); Touchscreen: 10.4" (264 mm)
Resolution	800 x 600 pixels (SVGA)
Number of Colors	16.2 Million
Operation	<ul style="list-style-type: none"> 3 hard buttons: [Wake-up], [Stop, interrupt, abort], [Home] Multitouch 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 2x Ethernet 100 Mbits/s, 1 Gbit/s• TCP/IP: DHCP, IPv4, IPv6, HTTPS• Discovery: APIPA, WS-Discovery, SNMP v3
Protocols	<ul style="list-style-type: none">• Network protocols: TCP/IP• Printing protocols: LPR, LPR to DRP, FTP, WebDAV Collaborate, WSD print• Backchannel protocols: SNMP v3, ColorWave interface, WS-Discovery
Set of Security Features	<ul style="list-style-type: none">• 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 Encryption AES 256, Support 802.1x Authentication• Removable hard drives (optional)• McAfee Application Control "whitelisting" license (optional)

ENVIRONMENTAL AND SAFETY

Ozone Emissions	Zero
Heat Emission	Ready: 214 W; Printing: 395 W
Operating Temperature	59 - 95° F (recommended: 68 - 81° F); 15 - 35° C (recommended 20 - 27° C)
Operating Humidity	20 - 80% RH (recommended: 30 - 60% RH)
Power Requirements	100 - 240 V; 50 - 60 Hz
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	<ul style="list-style-type: none">• 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 de-inkability when recycled.

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