BUILT FOR EXCELLENCE

Create a wealth of Large Format applications with ease

ColorWave 3800

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 excellence: equipped with smart, time-saving innovations and easy-to-use functionalities that reduce misprints.

- Based on over 10 years of proven technology, the ColorWave 3000 series inspires confidence with its convenient, hassle-free operation, excellent 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 are full of smart, time-saving innovations that reduce misprints and costs.

- With automated roll switching, excellent workflow software and a full range of excellently tuned peripherals, the ColorWave 3000 series is capable of producing a broad application range with minimal operator intervention.

- Sophisticated security features safeguard your data, not only today, but also in the future.

- The ColorWave 3000 series comes in 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.
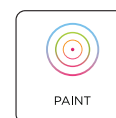
PRODUCT RANGE

ColorWave 3600   **ColorWave 3800**

SMARTshield | CrystalPoint | POWERsync | Image Logic

ClearConnect | MediaSense | PAINT

Canon

STANDARD SYSTEM CONFIGURATION

4 Roll printing system	Productive Large Format Colour printer with ClearConnect multi-touch user panel
Applications	Colour and B&W Technical drawings, Maps, unfolded and folded, POP/POS posters, Graphic Arts applications like posters, wallpapers, banners, wrapping paper, fine art
Stacking systems	Integrated Top Delivery Tray, 90 sheets capacity
Multi-touch user interface	ClearConnect multi-touch user interface: Consistent look and feel from every angle of your workflow, standard including Smart Inbox, SmartAccess, printer status and Live Preview
Roll media switching	Fully automated roll media switch, to guide the media to the top delivery tray or back output depending on the user application
Workflow software	ClearConnect: Drivers: Driver Select for Microsoft Windows, Driver Express for Adobe PostScript 3 Publishers: Publisher Select 3 for Microsoft Windows, Publisher Express for web browsers, Publisher Mobile for IOS and Android.
Starter kit (separate order)	4x 500g toner cartridges (Cyan, Magenta, Yellow, Black). 1 roll of 90 grams paper is included in the printer
Earthquake provision[1]	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

OPTIONAL SYSTEM CONFIGURATIONS

Roll media capacity upgrade	Additional 3rd drawer to increase media capacity from 4 to 6 media rolls (800 to 1200 m1, 850 to 1280 m2)
Removable hard disk	For secure environments, hard disk can be removed from the printer system to secure data integrity
Office space saving scanning system	Scanner Express with Image Logic technology, integrated CIS scanner positioned on top of the printer to save office space
Standalone System scanner	Scanner Professional, productive Stand alone 48 bit color scanner with 1200x1200 dpi CCD technology
Stacking System	Stacker Select, up to 400 sheets capacity. Increase your delivery capacity up to 500 sheets
Folding Systems	Folder Professional, productive fullfold folder with 150 folded packages delivery capacity. Folder Express, compact fullfold folder with 80 folded packages delivery capacity

TECHNOLOGY

Imaging technology	CrystalPoint Technology. The printer contains 8 Imaging Devices, 2 for each colour (CMYK). Clean toner refill system, no toner dust, no residue. No ozone emission
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 • MediaSense technology automatically adjusts the optimum print gap between the media and the Imaging Device for every type of media. This allows you to print on thicker media (up to 800 μm/ 30 mil) • Automated print language recognition • Automated print mode selection (Print Assistant) • Automated media saving function • Automatically suggests the right print mode for your job
Toner	ColorWave 3800 TonerPearls; Cyan, Magenta, Yellow and Black, 500g/cartridge

PRODUCTIVITY

Speed (print and copy)	4 A1/D-sizes[2] per minute 2 A0/E-sizes[3] per minute B&W CAD: 225 A1/D-sizes per hour (113 m2/hour), 129 A0/m2/E-sizes per hour (high speed mode) Colour CAD: 212 A1/D-sizes per hour (106 m2/hour), 120 A0/m2/E-sizes per hour (high speed mode)
First print out time[4]	<40 seconds
First copy out time[5]	<40 seconds
Print modes	9 print modes, the Print Assistant automatically determines the best print mode based on the content, without need for user intervention. Manual selection is possible.

QUALITY

Print Resolution	600 x 600 dpi
Resolution Droplet aligning accuracy	1200 dpi (corresponds to 20 microns)
Minimum line width (ISO/IEC 13660:2001E)	0.08 mm; 0.00315 in
1:1 Line accuracy	< 0.3%

SIZE AND WEIGHT

Size main engine (WxDxH)	Compact design: 2100 x 875 x 1605 mm
Shipping dimensions (WxDxH)	2271 x 1196 x 1547 mm
Weight main engine	290 kg (standard configuration)
Shipping weight main engine	376 kg (standard configuration)

MEDIA HANDLING

Media capacity	4 or 6 rolls
Media cutting	Automatic
Maximum media capacity	4 roll: 800 m1, 850 m2; 6 roll: 1200 m1, 1280 m2;
Media sizes	Supports all sizes from 297 mm - 1067 mm, 11 in - 42 in, including standard sizes DIN, ANSI, ARCH
Media weight	60 - 200 g/m2; 16 - 53 lb; film: 2.5 - 8.0 mil
Media thickness	800 μm; 30 mill; film: 65 - 200 μm / 2,5-8 mil
Roll length	Up to 200m
Roll width	297 mm - 1067 mm, 11 in - 42 in
Roll diameter	Up to 180 mm; 7.1 in
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 20 kg
Minimum printed length	210 mm; 8,5 in
Maximum printed length	200 m; 656 ft
Roll media type	Uncoated papers, uncoated tyvek, self-adhesive papers, self-adhesive coated vinyls, blue back papers, textile types, polypropylene films, polyester films, light block films, canvas, soft banner, instant dry photo paper, coated & uncoated non-woven wall paper (fleece), backlit film, wall paper, several natural and synthetic textiles
Custom media	Custom media support, including automatic calibration, no tooling and training required
Automatic roll media handling	• Automatic width detection • Automatic roll media selection for optimised productivity and media saving, based on drawing size, media type, roll width and finishing • Automatic rotation and alignment for folding • Automatic legend detection • Automatic roll switching when end of roll is reached • MediaSense Technology; automatic media thickness measurement and printing height adjustment

USER INTERFACE

Description	ClearConnect multi-touch user panel
Size (WxHxD)	300 x 220 x 40 mm; 11.8 x 8.7 x 1.6 in. Touch screen: 10.4 in
Resolution	800 x 600 pixels (SVGA)
Number of colours	16.2 Million
Technology	Projective capacitive touch
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	Distinctive user interface with intuitive navigation and clearly defined levels of operation
Features	View optimisation: Tilt (-4 to +45 degrees) and turn (-45 to +180 degrees) Status light (red, orange, green) USB 2.0 interface with indication light. 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

CONTROLLER

Description	High performance POWERsync controller with Windows 10 iOT LTSC, 64 bits
Processor	6 Core, 6 Thread, Core i5-8500 @4.10Ghz
Memory	8 GB DDR4
Video	Intel HD Graphics, 1GHz
Hard Disk	2x 500 GB, 7200 rpm (standard)
TPM	TPM 2.0
Client operating system support	• Driver Select; Windows 8, Windows 8 64 bits, Windows 8.1, Windows 8.1 64 bits, Windows 10, Windows 10 64 bits, Windows Server 2012 64 bits, Windows Server 2012 R2 64 bits, Windows Server 2016 64 bits, Windows Server 2019 64 bits; Citrix XenApp 7.15, Citrix Virtual Apps 7 1811.1, Microfocus Enterprise Server OES 2018 • Driver Express; Windows 8, Windows 8 64 bits, Windows 8.1, Windows 8.1 64 bits, Windows 10, Windows 10 64 bits, Windows Server 2012 64 bits, Windows Server 2012 R2 64 bits, Windows Server 2016 64 bits, Windows Server 2019 64 bits; MacOS 10.13/10.14/10.15 • Publisher Select; Driver Select; Windows 8, Windows 8 64 bits, Windows 8.1, Windows 8.1 64 bits, Windows 10, Windows 10 64 bits • Publisher Mobile; Android & iOS
Interface	2x Ethernet 100 Mbits/s, 1 Gbit/s TCP/IP: DHCP, IPv4, IPv6, HTTPS Discovery: APIPA, WS-Discovery, SNMP WAVE interface
Page description language	TIFF, JPEG, HPGL, HPGL2, C4, Calcomp 906/907/951, CALS, NIRS, NIFF
Page description language(optional)	ColorWave 3800 PDF/APPE license provides access to Adobe PostScript 3 and PDF1.7. It enables the Adobe CPSI (Configurable PostScript Interpreter) and the APPE (Adobe PDF Print Engine) 4 components
Printing Protocol	LPR, FTP, WebDav, WSD print
Back Channel protocol	SNMP v3, Wave interface, WS-Discovery.

Transformations	Scaling; Scaling (scale-to-fit page, reduce when image too large to avoid clipping or to custom factor, scale page size to standard blanc too much), Shift (automatic or user defined), Adding/removing trailing/leading edge, Mirror, Area to erase (area of interest)
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, The cloud user authentication can either be preconfigured by the administrator or done by the user at the time of accessing the specific cloud[6]
Colour 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)

SECURITY

Embedded security	SMARTshield: E-shredding, IPSec, IP filtering/Access Control Lists, HTTPS, SNMP v3, audit logging, AES256 Disk Encryption, 802.1x Authentication, network protocol enable/disable, LDAP integration, Active Directory Integration, User authentication on local ClearConnect user panel and via WebTools Express (LDAP/Active Directory credentials, smart card) for scan/copy/print. Configure HTTPS Certificates. Allow disabling TLS1.0 and 1.1 protocols (no response to network scan) and enable TLS 1.2 with stronger cipher. Embedded FIPS 140-2 Certified Trusted Platform Module (TPM) and BitLocker 256 AES hard disk encryption, hard disk wipe, Configurable CA certificate, Disable Network Ports and Protocols, Security Event Logging, Single Sign-on. Options: Removable hard disk, McAfee antivirus, McAfee Application control (whitelisting)
Authentication	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). Authorisation is managed by using Active Directory

SCANNER EXPRESS (optional)

Description	Integrated Contact Image Sensor (CIS) Colour scanner with Image Logic technology
Scan resolution	600 x 600 dpi
Scan speed	15.2 m/min Black & white scanning 5.0 m/min Colour scanning
Scan formats	TIFF, PDF, PDF/A, JPEG, CALS, multi-page PDF, multi-page PDF/A and multi-page TIFF
Scan templates	Extensive number of scan templates to standardise common scan settings and destinations
Scan protocol	FTP, SMB, scan to cloud (push to WebDAV based clouds)
Scan destination	Local USB flash drive, FTP, SMB, Smart Inbox on Controller, Optional Local Home folder (LDAP), mobile device via Publisher Express, WebDAV Clouds
Scan naming	Preset naming with auto numbering for productive scanning or file name on the ClearConnect user panel
Original width	208 mm - 965 mm; 8.2 in - 38 in, automatic width detection
Original length	208 mm - 16000 mm; 8.2 in- 630 in, automatic length detection
Original thickness	Maximum 0.8 mm; 0.03 in (non-rigid documents)
Effective scan width	932 mm
Zoom (copy)	1:1, Scale to media size, Scale to standard format, Custom: 10 - 1000%
Original types presets	Blueprint, Coloured original, Dark original, Folded lines/text, Lines/text standard, Lines/text draft, Photo, Map, Artwork
Size scanner (WxDxH)	1097 x 308 x 140 mm; 43 x 12 x 5.5 in.
Weight scanner	25 kg; 55 lbs

ENVIRONMENTAL

Sound power level	Standby and sleep: 4.7 B(A) Print mode: 6.9 B(A)
Sound pressure level	Standby and sleep: 36 dB Print mode: 57 dB
Ozone concentration	Zero
Heat emission	Ready: 215 W; Active: 325 W
Operating temperature	15 - 35 ºC (recommended: 20 - 27 ºC); 59 - 95 ºF (recommended: 68 - 81 ºF)
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: 215 W Active mode: 325 W
Safety/ EMC marks & environmental labels	CE, TüV GS, CETECOM, c-UL-US, CB, RCM, ENERGY STAR 3.0, FEMP, EPEAT, CCC, EAC, FCC Class A, VCCI Class A, RoHS, 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

CLEARCONNECT WORKFLOW SOFTWARE

Job submission	ClearConnect print workflow software enables you to print in one GO, and efficiently create and submit print jobs safely from a variety of devices and sources. The ClearConnect software suite consists of a variety of applications that all have the same user interface. Create, retrieve and/or send jobs from: • The Drivers (Driver Select for Microsoft Windows, Driver Express for Adobe PostScript 3 for Microsoft Windows or Apple OS); Easy to use printer drivers that allow you to effectively and efficiently print from any application • Publisher Select - Easily create, manage and submit complex sets of documents from your desktop – to one, or two printers at a time • Publisher Mobile - Submit print jobs via your mobile phone app supporting IOS and Android • Publisher Express - Easily submit your print jobs via the web independent of your web browser • ClearConnect User Panel - Print, Copy, Scan is as easy as using a tablet with the multi-touch user panel. Pull up a document from your Smart Inbox, USB device or external locations. Zoom and pan to different areas - even preview live while scanning or copying to avoid errors. The ColorWave 3000 series include RIP Support (eg Onyx Thrive).[7]
Smart inbox	Personalised Smart Inbox with history, Manage queue, Manage history, WebTools Express, Secured controller access
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. Customise 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
Print management & accounting	View the counter history at preferred time periods, per job or total overview in WebTools Express. View, create, edit and delete stamp templates. Optional uniFLOW support, login your personal uniFLOW Queue on the ClearConnect User interface. Supports manual authentication, card readers, and contactless card readers
Scan to colour inkjet	Scan directly to imagePROGRAF 600/700/800/ TX-2000/3000/4000/5200/5300/5400 series via Publisher Select 3 (hotfolder)
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
Device management	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 behaviour, queue management, license management, view, create, edit and delete stamp templates etc

PERIPHERALS (optional)

SCANNER PROFESSIONAL

Description	Charge-coupled device (CCD) colour 44 in scanner with optional upgrade to 48 in
Scan resolution	1200 x 1200 dpi (9600 x 9600 dpi interpolated)
Scan speed	23 m/min (150 dpi) 4.6 m/min (600 dpi)
Scan formats	Multipage PDF (PDF/A) and TIFF, JPEG, JPEG 2000, PNM, PNG, BMP, TIFF (Raw, G3, G4, LZW, JPEG) AutoCAD DWF, JBIG, DjVu, DICOM, PCX, Postscript, EPS, Raw data
Scan templates	Unlimited
Original width	1270 mm; 50 in
Original length	200 m
Colour depth/ colour output	48 bit colour, 16 bit greyscale / 24 bit colour, 8 bit greyscale, bitonal, enhanced halftone
Scan width	44 model: 1118 mm; 44 in / 48 model: max. 1220 mm; 48 in
Connections	1 USB Port 3.0 Interface 1 GBit Fast Ethernet with TCP/IP based Interface
Embedded controller	64 bit Linux, Intel i3, quad core processor, 16 Gigabyte RAM, 320GB HDD for very long scans
Size scanner (HxWxD)	1070 x 1425 x 507 mm; 42 x 56 x 20 in
Weight scanner	60 kg / 132 lbs

FOLDER EXPRESS 3011

Description	Compact integrated automated fullfold folder
Folding speed	Folding speed 1 - 12 m/min ; 39 - 472 in/min
Dimensions folder (WxDxH)	1780 x 860 x 1037-1253 mm; 70 x 34 x 40-50 in
Delivery capacity	80 A0/E size folded packages (80 g/m2)

FOLDER PROFESSIONAL 6011/6013

Description	Integrated productive fullfold folder with automated, manual folding and unfold output
Folding speed	2,5 - 10 m/min ; 1.6 - 6.6 in/sec (29 m/min ; 11.8 in/sec with optional High Speed License)
Dimensions Folder (WxDxH)	1837 x 1634 x 1227 mm (6011) 2157 x 1634 x 1227 mm (6013)

Delivery capacity (standard delivery belt)	150 A0/E size folded packages (80 gr/m2)
Reinforment (tab unit)	Folder Professional 6013 only
STACKER SELECT	
Description	Productive integrated high capacity stacker with air separation
Capacity	up to 400 sheets
Media width	216 mm (8.5 in) - 1067 mm (42 in)
Media length	200 mm (7.9 in) - 1220 mm (48 in)
Media weight	60 – 160 g/m2

FOOTNOTES:

1	Excluding cable/chain and mounting material
2	D size (34 x 22 in) / A1 size (841 x 594 mm)
3	E size (44 x 34 in) / A0 size (1189x 841 mm)
4	1 A1 landscape print to back output, in fastest print mode, from ready mode.
5	1 copy made in A1 landscape. Print to back output, in fastest print mode, background compensation off,, from ready mode.
6	Based on current third party support
7	Adobe and Postscript are either registered trademarks or trademarks of Adobe Systems Inc. in the United States and/or other countries; Microsoft, Windows, SharePoint and OneDive are registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries; Amazon is a registered trademark or trademark of Amazon Corporation in the United States and/or other countries; Box and the Box logo are including without limitation either trademarks, service marks or registered trademarks of Box.com(UK) Ltd.; ARC is a trademark of Synopsis Inc. I the United States and/or other countries; CloudSafe is a trademark of CloudSafe GmbH &Co. KG; Dropbox is a trademark of Dropbox,Inc.; MyDisk is a trademark of MyDisk Ltd.; iOS is a registered trademark or trademark of Apple inc. in the United States and/or other countries