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	
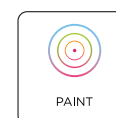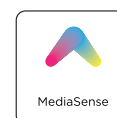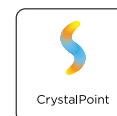
Canon

ColorWave 3800

STANDARD SYSTEM CONFIGURATION	
6 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 (standard)	Integrated Top Delivery Tray, 90 sheets capacity.
Rotatable 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.
ClearConnect workflow software	Drivers: Driver Express for Adobe PostScript 3, Driver Select for Microsoft Windows Publishers: Publisher Mobile for IOS and Android, Publisher Express for web browsers, Publisher Select 3 for Microsoft Windows.
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	
Office space saving scanning system	Scanner Express with Image Logic technology, integrated CIS scanner positioned on top of the printer to save office space.
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 (optional)	For secure environments, hard disk can easily be removed from the printer system to secure data integrity
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) - automatically suggests the right print mode for your job
Toner / type	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)
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)	2100 x 875 x 1605 mm
Shipping dimensions	2271 x 1196 x 1547 mm
Weight main engine	290 kg (printer and 2 drawers)
Shipping weight main engine	376 kg (printer and 2 drawers)
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 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, including standard sizes DIN, ANSI, ARCHI

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 (WxDxH)	300 x 220 x 40 mm; 11.8 x 8.7 x 1.6in (10.4 in at 4x3 ratio)
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	TPM2.0
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	2x Ethernet 100 Mbits/s, 1 Gbit/s TCP/IP: DHCP, IPv4, IPv6, HTTPS Discovery: APIPA, WS-Discovery, SNMP v3
Page description language	TIFF, JPEG, HPGL, HPGL2, DWF, C4, Calcomp 906/907/951, CALS, NIRS, NIFF, PS/PDF (optional)
Printing Protocol	LPR, FTP, WebDav, WSD print
Back Channel protocol	SNMP v3, Canon 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 size), Rotation, Shift (automatic or user defined), Adding/removing trailing/leading edge, Mirror, Black intensity in poster mode, Print optimisation (standard, lines/text, poster). Colour Highlight and Dark Original. Area to erase (area of interest).
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

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 Embedded control (whitelisting).
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. The cloud user authentication can either be preconfigured by the administrator or done by the user at the time of accessing the specific cloud.
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). 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 (min. 100 dpi)
Scan speed	15.2 m/min Black & white scanning 10.1 m/min Copying 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, PlanWell Collaborate.
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)
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: 214 W; Active: 395 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: 199 W Active mode: 380 W
Safety/ EMC marks & environmental labels	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.

CLEARCONNECT WORKFLOW SOFTWARE

Job submission	The ClearConnect software suite consists of a variety of applications that all have the same user interface. Create, retrieve and/or send jobs from drivers (Driver select for Microsoft® Windows®, Driver Express for Adobe® PostScript® 3 for Microsoft® Windows® or Apple® OS), 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). Optional PlanWell Collaborate. 1-click printing from USB, 1-click printing from last send jobs via Print SmartAccess on ClearConnect user panel. The Smart Inbox on the ClearConnect user panel enables the job preview: swipe between your jobs for print selection and preview. Pan to view the image in detail (zoom). With the template-oriented Publisher Select 3 submitting multiple files are supported. Print multiple times, and sort by page or set. Media saving automatically rotates print files to optimise media usage.[4]
Smart inbox	Personalised Smart Inbox with history, Manage queue, Manage history, WebTools Express, Secured controller access. 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
SCANNER PROFESSIONAL (optional)

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 (200 dpi) 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	Endless
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 (WxDxH)	228 x 1425 x 507 mm; 9 x 56.1 x 20 in (H x W x D)
Weight scanner	53 kg / 117 lbs

FOLDER EXPRESS COMPACT FOLDER (optional)

Description	Integrated automatic fullfold folder saving office space.
Folding speed	Folding speed 1 - 11 m/min ; 0.7 - 7.2 in/sec
Dimensions folder	1748 x 852 x 1118 mm; 70 x 63 x 44 in
Delivery capacity	80 A0/E size folded packages (80 g/m2)

FOLDER PROFESSIONAL PRODUCTIVE FOLDER (optional)

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 Professional 6011 (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 (optional)

Description	Integrated productive stacker with high capacity and tray full sensor
Capacity	up to 400 pages
Media width	216 mm (8.5 in) - 1067 mm (42 in)
Media length	200 mm (7.9 in) - 1220 mm (48 in)
Media weight	75 – 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	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.

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