

# BUILT FOR EXCELLENCE

Create a wealth of Large  
Format applications  
with ease



## ColorWave 3600

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



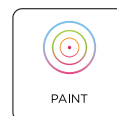
POWERSync



Image Logic



ClearConnect



PAINT

**Canon**

# TECHNICAL SPECIFICATIONS

# ColorWave 3600

## STANDARD SYSTEM CONFIGURATION

<b>2 Roll printing system</b>	Productive Large Format Colour printer with ClearConnect multi-touch user panel
<b>Applications</b>	Colour and B&W Technical drawings, Maps, unfolded and folded, POP/POS posters, Graphic Arts applications like posters, wallpapers, banners, wrapping paper
<b>Stacking systems</b>	Integrated Top Delivery Tray, 90 sheets capacity
<b>Multi-touch user interface</b>	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
<b>Roll media switching</b>	Fully automated roll media switch, to guide the media to the top delivery tray or back output depending on the user application
<b>Workflow software</b>	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.
<b>Starter kit (separate order)</b>	4x 500g toner cartridges (Cyan, Magenta, Yellow, Black). 1 roll of 90 grams paper is included in the printer
<b>Earthquake provision<sup>1</sup></b>	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

<b>Roll media capacity upgrade</b>	Additional 2nd drawer to increase media capacity from 2 to 4 media rolls (400 to 800 m1, 425 to 850 m2)
<b>Removable hard disk</b>	For secure environments, hard disk can be removed from the printer system to secure data integrity
<b>Office space saving scanning system</b>	Scanner Express with Image Logic technology, integrated CIS scanner positioned on top of the printer to save office space
<b>Standalone System scanner</b>	Scanner Professional, productive Stand alone 48 bit color scanner with 1200x1200 dpi CCD technology
<b>Stacking System</b>	Stacker Select, up to 400 sheets capacity. Increase your delivery capacity up to 500 sheets
<b>Folding Systems</b>	Folder Professional, productive fullfold folder with 150 folded packages delivery capacity. Folder Express, compact fullfold folder with 80 folded packages delivery capacity

## TECHNOLOGY

<b>Imaging technology</b>	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
<b>Automated functions</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Automated print language recognition</li> <li>• Automated print mode selection (Print Assistant)</li> <li>• Automated media saving function</li> <li>• Automatically suggests the right print mode for your job</li> </ul>
<b>Toner</b>	ColorWave 3600 TonerPearls; Cyan, Magenta, Yellow and Black, 500g/cartridge

## PRODUCTIVITY

<b>Speed (print and copy)</b>	4 A1/D-sizes <sup>2</sup> per minute 2 A0/E-sizes <sup>2</sup> 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)
<b>First print out time<sup>4</sup></b>	<40 seconds
<b>First copy out time<sup>5</sup></b>	<40 seconds
<b>Print modes</b>	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

## QUALITY

<b>Print Resolution</b>	600 x 600 dpi
<b>Resolution Droplet aligning accuracy</b>	1200 dpi (corresponds to 20 microns)
<b>Minimum line width (ISO/IEC 13660:2001E)</b>	0.08 mm; 0.00315 in
<b>1:1 Line accuracy</b>	< 0.3%
<b>SIZE AND WEIGHT</b>	
<b>Size main engine (WxDxH)</b>	Compact design: 2100 x 875 x 1605 mm
<b>Shipping dimensions (WxDxH)</b>	2271 x 1196 x 1547 mm
<b>Weight main engine</b>	252 kg (standard configuration)
<b>Shipping weight main engine</b>	338 kg (standard configuration)

## MEDIA HANDLING

<b>Media capacity</b>	2 or 4 rolls
<b>Media cutting</b>	Automatic

## Maximum media capacity

<b>Media sizes</b>	4 roll: 800 m1, 850 m2; 6 roll: 1200 m1, 1280 m2;  Supports all sizes from 297 mm - 1067 mm, 11 in - 42 in, including standard sizes DIN, ANSI, ARCH
<b>Media weight</b>	60 - 160 g/m <sup>2</sup> ; 16 - 43 lb; film: 2.5 - 8.0 mil
<b>Media thickness</b>	200 µm; 8 mil; film: 65 - 200 µm / 2,5-8 mil
<b>Roll length</b>	Up to 200m
<b>Roll width</b>	297 mm - 1067 mm, 11 in - 42 in
<b>Roll diameter</b>	Up to 180 mm; 71 in
<b>Roll core diameter</b>	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
<b>Roll weight</b>	Up to 20 kg
<b>Minimum printed length</b>	210 mm; 8,5 in
<b>Maximum printed length</b>	200 m; 656 ft
<b>Roll media type</b>	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
<b>Custom media</b>	Custom media support, including automatic calibration, no tooling and training required
<b>Automatic roll media handling</b>	<ul style="list-style-type: none"> <li>• Automatic width detection</li> <li>• Automatic roll media selection for optimised productivity and media saving, based on drawing size, media type, roll width and finishing</li> <li>• Automatic rotation and alignment for folding</li> <li>• Automatic legend detection</li> <li>• Automatic roll switching when end of roll is reached</li> </ul>

## USER INTERFACE

<b>Description</b>	ClearConnect multi-touch user panel
<b>Size (WxHxD)</b>	300 x 220 x 40 mm; 11.8 x 8.7 x 1.6 in. Touch screen: 10.4 in
<b>Resolution</b>	800 x 600 pixels (SVGA)
<b>Number of colours</b>	16.2 Million
<b>Technology</b>	Projective capacitive touch
<b>Operation</b>	3 hard buttons: [Wake-up], [Stop, interrupt, abort], [Home] Multi-touch functions: tab, double tap, pinch, 2 finger pinch, swipe, flick and spread
<b>Interface design</b>	Distinctive user interface with intuitive navigation and clearly defined levels of operation
<b>Features</b>	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

<b>Description</b>	High performance POWERsync controller with Windows 10 IoT LTSC, 64 bits
<b>Processor</b>	4 Core, 4 Thread Core i3-8100 @3.6GHz
<b>Memory</b>	8 GB DDR4
<b>Video</b>	Intel HD Graphics, 1GHz
<b>Hard Disk</b>	2x 500 GB, 7200 rpm (standard)
<b>TPM</b>	TPM 2.0

## Client operating system support

<b>Client operating system support</b>	<ul style="list-style-type: none"> <li>• 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</li> <li>• 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</li> <li>• Publisher Select; Driver Select; Windows 8, Windows 8 64 bits, Windows 8.1, Windows 8.1 64 bits, Windows 10, Windows 10 64 bits</li> <li>• Publisher Mobile; Android &amp; iOS</li> </ul>
<b>Interface</b>	2x Ethernet 100 Mbits/s, 1 Gbit/s TCP/IP: DHCP, IPv4, IPv6, HTTPS Discovery: APiPA, WS-Discovery, SNMP WAVE interface
<b>Page description language</b>	TIFF, JPEG, HPGL, HPGL2, C4, Calcomp 906/907/951, CALS, NIRS, NIFF
<b>Page description language(optional)</b>	ColorWave 3600 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
<b>Printing Protocol</b>	LPR, FTP, WebDav, WSD print
<b>Back Channel protocol</b>	SNMP v3, Wave interface, WS-Discovery
<b>Transformations</b>	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)

<b>Cloud support</b>	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 <sup>6</sup>	<b>CLEARCONNECT WORKFLOW SOFTWARE</b>	
<b>Colour management</b>	<ul style="list-style-type: none"> <li>• RGB input profile (sRGB, AdobeRGB)</li> <li>• 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</li> <li>• Grey profile (standard included in the PDF/APPE option)</li> <li>*Rendering intent (perceptual, saturation, absolute colorimetric, relative colorimetric)</li> </ul>	<b>Job submission</b>	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: <ul style="list-style-type: none"> <li>• 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</li> <li>• Publisher Select - Easily create, manage and submit complex sets of documents from your desktop - to one, or two printers at a time</li> <li>• Publisher Mobile - Submit print jobs via your mobile phone app supporting IOS and Android</li> <li>• Publisher Express - Easily submit your print jobs via the web independent of your web browser</li> <li>• 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).<sup>7</sup></li> </ul>
<b>SECURITY</b>		<b>Smart inbox</b>	Personalised Smart Inbox with history, Manage queue, Manage history, WebTools Express, Secured controller access
<b>Embedded security</b>	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)	<b>Queue management</b>	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
<b>Authentication</b>	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	<b>Print management &amp; accounting</b>	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
<b>SCANNER EXPRESS (optional)</b>		<b>Scan to colour inkjet</b>	Scan directly to imagePROGRAF 600/700/800/ TX-2000/3000/4000/5200/5300/5400 series via Publisher Select 3 (hotfolder)
<b>Description</b>	Integrated Contact Image Sensor (CIS) Colour scanner with Image Logic technology	<b>Mobile and Cloud</b>	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
<b>Scan resolution</b>	600 x 600 dpi	<b>Device management</b>	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
<b>Scan speed</b>	15.2 m/min Black & white scanning 5.0 m/min Colour scanning	<b>PERIPHERALS (optional)</b>	
<b>Scan formats</b>	TIFF, PDF, PDF/A, JPEG, CALS, multi-page PDF, multi-page PDF/A and multi-page TIFF	<b>SCANNER PROFESSIONAL</b>	
<b>Scan templates</b>	Extensive number of scan templates to standardise common scan settings and destinations	<b>Description</b>	Charge-coupled device (CCD) colour 44 in scanner with optional upgrade to 48 in
<b>Scan protocol</b>	FTP, SMB, scan to cloud (push to WebDAV based clouds)	<b>Scan resolution</b>	1200 x 1200 dpi (9600 x 9600 dpi interpolated)
<b>Scan destination</b>	Local USB flash drive, FTP, SMB, Smart Inbox on Controller, Optional Local Home folder (LDAP), mobile device via Publisher Express, WebDAV Clouds	<b>Scan speed</b>	23 m/min (150 dpi) 4.6 m/min (600 dpi)
<b>Scan naming</b>	Preset naming with auto numbering for productive scanning or file name on the ClearConnect user panel	<b>Scan formats</b>	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
<b>Original width</b>	208 mm - 965 mm; 8.2 in - 38 in, automatic width detection	<b>Scan templates</b>	200 m
<b>Original length</b>	208 mm - 16000 mm; 8.2 in- 630 in, automatic length detection	<b>Original width</b>	1270 mm; 50 in
<b>Original thickness</b>	Maximum 0.8 mm; 0.03 in (non-rigid documents)	<b>Original length</b>	Endless
<b>Effective scan width</b>	932 mm	<b>Colour depth/ colour output</b>	48 bit colour, 16 bit greyscale / 24 bit colour, 8 bit greyscale, bitonal, enhanced halftone
<b>Zoom (copy)</b>	1:1, Scale to media size, Scale to standard format, Custom: 10 - 1000%	<b>Scan width</b>	44 model: 1118 mm; 44 in / 48 model: max. 1220 mm; 48 in
<b>Original types presets</b>	Blueprint, Coloured original, Dark original, Folded lines/ text, Lines/text standard, Lines/text draft, Photo, Map, Artwork	<b>Connections</b>	1 USB Port 3.0 Interface 1 GBit Fast Ethernet with TCP/IP based Interface
<b>Size scanner (WxDxH)</b>	1097 x 308 x 140 mm; 43 x 12 x 5.5 in.	<b>Embedded controller</b>	64 bit Linux, Intel i3, quad core processor, 16 Gigabyte RAM, 320GB HDD for very long scans
<b>Weight scanner</b>	25 kg; 55 lbs	<b>Size scanner (HxWxD)</b>	1070 x 1425 x 507 mm; 42 x 56 x 20 in
<b>ENVIRONMENTAL</b>		<b>Weight scanner</b>	60 kg / 132 lbs
<b>Sound power level</b>	Standby and sleep: 4.7 B(A) Print mode: 6.9 B(A)	<b>FOLDER EXPRESS 3011</b>	
<b>Sound pressure level</b>	Standby and sleep: 36 dB Print mode: 57 dB	<b>Description</b>	Compact integrated automated fullfold folder
<b>Ozone concentration</b>	Zero	<b>Folding speed</b>	Folding speed 1 - 12 m/min ; 39 - 472 in/min
<b>Heat emission</b>	Ready: 215 W; Active: 325 W	<b>Dimensions folder (WxDxH)</b>	1780 x 860 x 1037-1253 mm; 70 x 34 x 40-50 in
<b>Operating temperature</b>	15 - 35 °C (recommended: 20 - 27 °C); 59 - 95 °F (recommended: 68 - 81 °F)	<b>Delivery capacity</b>	80 A0/E size folded packages (80 gr/m2)
<b>Operating humidity</b>	20 - 80% RH (recommended: 30 - 60% RH)	<b>FOLDER PROFESSIONAL 6011/6013</b>	
<b>Power requirements</b>	100 - 240 V; 50/60Hz	<b>Description</b>	Integrated productive fullfold folder with automated, manual folding and unfold output
<b>Power consumption</b>	Sleep mode: <2.5 W Ready mode: 215 W Active mode: 325 W	<b>Folding speed</b>	2,5 - 10 m/min ; 1,6 - 6.6 in/sec (29 m/min ; 11.8 in/sec with optional High Speed License)
<b>Safety/ EMC marks &amp; environmental labels</b>	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	<b>Dimensions Folder (WxDxH)</b>	1837 x 1634 x 1227 mm (6011) 2157 x 1634 x 1227 mm (6013)
<b>Recyclables</b>	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	<b>Delivery capacity (standard delivery belt)</b>	150 A0/E size folded packages (80 g/m2)
		<b>Reinforcement (tab unit)</b>	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/m <sup>2</sup>

### 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 OneDrive 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



MDS Inovativne Tehnologije d.d.  
Leskoškova cesta 9e, 1000 Ljubljana



386 1 586 79 33



[www.mds-it.si](http://www.mds-it.si)



[info@mds-it.si](mailto:info@mds-it.si)

