



ColorWave 3600

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 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

ColorWave 3600

## 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

<b>Print Technology</b>	CrystalPoint Technology.
<b>Imaging technology</b>	The printer contains 8 Imaging Devices, 2 for each color (CMYK).
<b>Toner</b>	ColorWave 3600 printer uses Cyan, Magenta, Yellow, and Black TonerPearls, 500 gram/color. Clean toner refill, no toner dust, no residue, no ozone emission
<b>Print Speed</b>	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)
<b>Productivity</b>	B&W CAD: 225 A1/D-sizes per hour (113 m <sup>2</sup> /hour), 129 A0/m <sup>2</sup> /E-sizes per hour (high speed mode) Color CAD: 212 A1/D-sizes per hour (106 m <sup>2</sup> /hour), 120 A0/m <sup>2</sup> /E-sizes per hour (high speed mode)
<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.
<b>Resolution Imaging Devices</b>	True resolution: 600 x 600 dpi
<b>Resolution Droplet aligning accuracy</b>	1200 dpi (corresponds to 20 microns)
<b>Automated functions</b>	<ul style="list-style-type: none"><li>• PAINT technology (Piezo Acoustic Integrated Nozzle Technology)</li><li>• Applies sophisticated diagnostics, maintenance and error corrections to overcome common nozzle issues that occur with conventional inkjet printers even while printing</li><li>• Image Logic technology - an intelligent, easy to use solution that helps you consistently turn imperfect originals into high-quality copies and scans without any hassle</li><li>• Automated print language recognition</li><li>• Automated print mode selection (Print Assistant)</li><li>• Automatically suggests the right print mode for your job</li><li>• Automatic roll selection</li><li>• Automatic rotation and alignment for folding and legend detection</li></ul>

## PRINTING SYSTEM CONFIGURATION

<b>Printer</b>	Color and monochrome printer based on CrystalPoint technology, high performance POWERsync Controller with 4 Core, 4 Thread Core i3-8100 processor
<b>Printer Dimensions (WxDxH)</b>	82.7" x 34.5" x 63.2" (2,100 x 875 x 1605 mm)
<b>Printer Shipping Dimensions (WxDxH)</b>	89.4" x 47.1" x 60.9" (2271 x 1196 x 1547 mm)
<b>Printer Weight</b>	556 lbs. (252 kg) - printer and one drawer
<b>Printer Shipping Weight</b>	745 lbs. (338 kg) - printer and one drawer
<b>Earthquake provision</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.
<b>Standard Stacking System</b>	Integrated Top Delivery Tray, 90-sheet capacity
<b>Optional Stacking System</b>	Stacker Select; 400-sheet capacity
<b>Optional Finishing Devices</b>	Folder Express 3011

## MEDIA HANDLING

<b>Technology</b>	Auto switching technology: <ul style="list-style-type: none"><li>• The correct roll for a print job is selected automatically based on the media type and roll width</li><li>• Automatic roll switching when the end of roll is reached</li><li>• Automatic width detection</li></ul>
<b>Media cutting</b>	Automatic
<b>Media Rolls</b>	Two or four rolls (one drawer = two rolls, two drawers = four rolls)
<b>Media capacity</b>	Up to 2,600' - 650' on a roll (800 m - 200 m on a roll)
<b>Media weight</b>	Paper: 16 - 43 lbs; 60 - 160 g/m <sup>2</sup> Film: 2.5 - 8 mil
<b>Media thickness</b>	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	<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>
Smart inbox	Personalized Smart Inbox with history, Manage queue, Manage history, WebTools Express, Secured controller access

## SCANNER

Description:	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Custom scan file naming to any location. Checkpoint functionality.</li> <li>• ClearConnect supports live preview of the scanning process on the user panel.</li> <li>• Scan to many formats, including Adobe PDF.</li> </ul>
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

<b>Description</b>	ClearConnect multi-touch user panel <ul style="list-style-type: none"><li>• 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.</li></ul>
<b>User Interface Size (WxDxH)</b>	11.8" x 8.7" x 1.6" (300 x 220 x 40 mm); Touchscreen: 10.4" (264 mm)
<b>Resolution</b>	800 x 600 pixels (SVGA)
<b>Number of colors</b>	16.2 Million
<b>Operation</b>	<ul style="list-style-type: none"><li>• 3 hard buttons: [Wake-up], [Stop, interrupt, abort], [Home]</li><li>• Multi-touch functions: tab, double tap, pinch, 2 finger pinch, swipe, flick and spread.</li></ul>
<b>Interface design</b>	iF Design award: Distinctive user interface with intuitive navigation and clearly defined levels of operation.
<b>Features</b>	<ul style="list-style-type: none"><li>• View optimization: Tilt (-4 to +45 degrees) and turn (-45 to +180 degrees)</li><li>• Status light (red, orange, green)</li><li>• USB 2.0 interface with indication light</li></ul>
<b>Languages</b>	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

<b>Description</b>	Concurrent printing, copying, scanning, and file processing of single documents or sets.
<b>Printer Drivers</b>	Driver Express for Adobe PostScript 3, Driver Select for Microsoft Windows
<b>Job submission</b>	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).
<b>ClearConnect</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• Use the Smart Inbox to view all jobs with status, job name, and owner.</li><li>• Actions to print, print all, edit, send to, delete and save. Custom sorting of jobs in list or group view.</li><li>• Open API for third-party or self-developed applications integrated with the ClearConnect user panel.</li></ul>
<b>Device Management via WebTools Express</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 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.
<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. 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.
<b>Accounting (Standard)</b>	WebTools Express: View the counter history at preferred time periods, per job, or total overview.
<b>Accounting (Optional)</b>	Direct Accounting Software
<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.

## NETWORK INFORMATION

<b>Client Operating System Support</b>	<ul style="list-style-type: none"><li>• 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</li><li>• Mac OS 10.10 / Mac OS 10.11 / Mac OS 10.12 (Driver Select support only for Mac OS)</li></ul>
<b>Interface Design</b>	<ul style="list-style-type: none"><li>• 2x Ethernet 100 Mbits/s, 1 Gbit/s</li><li>• TCP/IP: DHCP, IPv4, IPv6, HTTPS</li><li>• Discovery: APIPA, WS-Discovery, SNMP v3</li></ul>
<b>Protocols</b>	<ul style="list-style-type: none"><li>• Network protocols: TCP/IP</li><li>• Printing protocols: LPR, LPR to DRP, FTP, WebDAV Collaborate, WSD print</li><li>• Backchannel protocols: SNMP v3, ColorWave interface, WS-Discovery</li></ul>

<b>SMARTshield Security</b>	<ul style="list-style-type: none"> <li>• HTTPS, extended security protection for administrator, audit logging</li> <li>• 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</li> <li>• Access Management: user authentication on local ClearConnect user panel via Express WebTools</li> <li>• FIPS 140-2 Certified TPM</li> <li>• Secure boot</li> <li>• User authentication on local UI for FTP, SMB, and WebDAV. Disk Encryption AES 256, Support 802 1x Authentication</li> <li>• Removable Harddrives (optional)</li> <li>• McAfee Application control "whitelisting" License (optional)</li> </ul>
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## ENVIRONMENTAL & SAFETY

<b>Ozone Emissions</b>	Zero
<b>Heat emission</b>	Ready: 214 W; Printing: 395 W
<b>Operating temperature</b>	59-95 F (recommended: 68-81 F); 15-35 C (recommended 20-27 C)
<b>Operating humidity</b>	20 - 80% RH (recommended: 30 - 60% RH)
<b>Power requirements</b>	100 - 240 V; 50 - 60Hz
<b>Power consumption</b>	Sleep mode: <2.5 W Ready mode: 199 W Active mode: 380 W
<b>Acoustic Sound Power:</b>	Ready: < 4.7 B(A) Printing: < 6.9 B(A)
<b>Acoustic Sound Pressure</b>	Ready: < 36 dB Printing: < 57 dB
<b>Certifications</b>	CE, TÜV GS, CETECOM, c-UL-US, CB, RCM, ENERGY STAR, FEMP, EPEAT, CCC, EAC, FCC Class A, VCCI Class A, Greenguard Gold
<b>Recyclables</b>	<ul style="list-style-type: none"> <li>• Printer: made of steel and highly recyclable plastics, min 86% of the engine can either be upcycled or recycled.</li> <li>• Toner: cartridge packaging reused as maintenance cassette and made of recyclable plastic.</li> <li>• Prints: very good deinkability when recycled.</li> </ul>



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