YEARS AHEAD

colorWAVE T65
Colour printing you can build on

The colorWAVE T-series combines proven technology with our latest innovations in product design and controller technology to offer you easy, highly productive colour printing of technical drawings and designs with IT security features and support for your sustainable business initiatives for the years ahead.

T-series benefits for you

- **Durable colour printer**
  Businesses run better with peace of mind. The colorWAVE T-series is built for reliability and uptime, without the burden of daily maintenance.
- **Professional design philosophy**
  We have led architects, designers and engineers into better ways of printing technical drawings and designs for more than 85 years. We are also one of the world's leading manufacturing companies, with vast experience in design and engineering.
- **Productive ease of use**
  The colorWAVE T-series provides productive ease of use for almost every task, from a quick print to complex jobs and document sets. Together with the PRISMA Tech Suite, it's colour printing you can build on for the years ahead.
- **Streamlined workflow**
  We are not only one of the market leaders in high-performance printers. We are also a well-known developer of controllers and workflow software that gives architects, designers and engineers the tools they need to do the job.
- **IT security features**
  More than ever, you need to protect your IT infrastructure and valuable data assets against unauthorised access. With multiple layers of security features, the colorWAVE T-series is a printer you can build on with peace of mind for the years ahead.
- **Support of your sustainable business initiatives**
  The colorWAVE T-series brings you compact, quiet, ergonomic printing. It's a colour printing system you can build on for the years ahead to support your sustainable business initiatives.
- **One-stop shop**
  With the colorWAVE T-series, our account professionals help you configure a fully integrated, large-format solution, with hardware, software, supplies and service from a single supplier.

CrystalPoint · POWERsync+ · PAINT · ClearConnect · MediaSense · Image Logic · SMARTshield · PRISMA Tech Suite

Canon

TECHNICAL SPECIFICATIONS

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, up to 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
Starter kit (separate order)	4x 500g toner cartridges (Cyan, Magenta, Yellow, Black). 1 roll of 90 grams paper is included in the printer
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)
Office space saving scanning system	Scanner Express with Image Logic technology, integrated CIS scanner positioned on top of the printer to save office space
Removable hard disks	For secure environments, hard disks can be removed from the printer system to secure data integrity
Operator Attention light	For productive environments, the status of the machine is visable from a distance
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 media selection · Automatic Remaining media detection, indicating remaining media per media roll · Automated media saving function · Automated media switch · Automated print mode selection (Print Assistant), suggests the right print mode for your job
Toner	colorWAVE T65 and colorWAVE+ TonerPearls (in combination with App+ license); Cyan, Magenta, Yellow and Black, 500g/ cartridge
PRODUCTIVITY	
Speed (print and copy)	4 A1/D-sizes[1] per minute 2 A0/E-sizes[2] 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[3]	<40 seconds
First copy out time[4]	<40 seconds
Print modes	9 print modes. Select the print mode manually or use the Print Assistant to automatically determine the best print mode based on the content, without need for user intervention
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 (including Top Delivery Tray)
Shipping dimensions (WxDxH)	2271 x 1196 x 1547 mm
Weight main engine	294 kg (standard configuration) [5]
Shipping weight main engine	384 kg (standard configuration) [5]
MEDIA HANDLING	
Media capacity	4 or 6[6] rolls
Media cutting	Automatic or manual
Maximum media capacity	4 roll: 800 m1, 850 m2; 6 roll: 1200 m1, 1280 m2;
Media sizes	Supports all roll 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 mil; film: 65 - 200 µm / 2,5-8 mil
Roll length	Up to 200m
Roll width	297 mm - 1067 mm, 11 in - 42 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 diameter	Up to 180 mm; 7.1 in
Roll weight	Up to 20 kg
Minimum printed length	210 mm; 8,5 in
Maximum printed length	200 m; 656 ft
Media type	Uncoated papers, uncoated tyvek, self-adhesive papers, self-adhesive coated vinyls, blue back papers, polypropylene films, polyester films, light block films, backlit films, canvas, soft banner, instant dry photo paper, coated & uncoated non-woven wall paper (fleece), 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 roll switching when end of roll is reached · Automated media switch, to guide the media to the top delivery tray or back output depending on the user application · Automatic Remaining media detection, indicating remaining media per media roll · Automatic rotation and alignment for folding · Automatic legend detection · MediaSense Technology; automatic media thickness measurement and printing height adjustment
ClearConnect 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: tap, 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 19 languages; Czech, Danish, German, English, Spanish, Finnish, French, Hungarian, Italian, Japanese, Korean, Dutch, Norwegian, Polish, Portuguese, Russian, Swedish, Chinese simplified, Chinese-traditional
CONTROLLER	
Description	High performance POWERsync[4] controller with Windows 10 IoT Enterprise LTSC 2021, 64 bits
Processor	6 Core, 6 Thread, Core i5-8500 @4.10GHz
Memory	2x8 GB DDR4
Video	Intel UHD Graphics 630, 1.0GHz
Hard Disk	2x 500 GB, 7200 rpm (standard)
TPM	TPM 2.0
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, DWF, C4, Calcomp 906/907/951, CALS, NIRS/NIFF
Page description language (optional)	PDF/APPE license provides access to Adobe PostScript 3 and PDF1.7. It enables the Adobe CPSI 7.10 (Configurable PostScript Interpreter) and the APPE 5.7 (Adobe PDF Print Engine) components
Printing protocol	· LPR, FTP, WebDav · FTP · Pull from SMB, FTP · Pull from cloud (retrieve from ARC Collaborate, WebDAV based clouds) · HTTP/HTTPS (used by Publisher Express and PRISMAproduce Tech) · Print from home folder (via access management license)
Back Channel protocol	HTTP or HTTPS
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), Shift (automatic or user defined), Adding/ removing trailing/leading edge, Mirror, Area to erase (area of interest)
Cloud support	Cloud support via the WebDav protocol or via 3th party providers like uniFLOW[7] The cloud user authentication can either be preconfigured by the administrator or done by the user at the time of accessing the specific cloud
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)

COLORWAVE T65

SMARTshield INTEGRATED SECURITY	
Safe submission	Access Control (IP filtering), IPSec, HTTPS, IP4 and IP6 compatible, password data protection
Safe storage and removal	Secure file erase, E-shredding, Secure boot, Data encryption with Embedded FIPS 140-2 Certified Trusted Platform Module 2 (TPM), BitLocker 256 AES encryption, Optional Removable hard disks and optional HDD's destruction at the end of the contract
Authorisation	User authentication for access on the ClearConnect user panel/ WebTools Express (via LDAP/Active Directory credentials and optional via Access card), Print file protection via pincode or password, Possible to disable ports and interfaces, Standard uniFLOW embedded applet installed on the controller, for integration in uniFLOW please contact your Canon representative
Hack prevention	IEEE 802.1x Authentication, SNMP v3, Audit logging, Configure HTTPS Certificates. TLS 1.2 strong cipher (Possible to disable TLS1.0 and 1.1 protocols), Possible to disable unused protocols, Security Event Logging, Optional Trellix antivirus software, Optional Trellix Application Control (whitelisting)
Secure now and in the future	Windows 10 Enterprise LTSC 2021 controller operating system with Microsoft security patches up to 2032. SMARTshield CIP (Continous Improvement Process) including: Automatic Microsoft security patch update services with notifications and scheduling, Continuous monitoring of vulnerabilities by Canon (https://psirt.canon), Annual external security audit program based on the OWASP top 10 methology (https://owasp.org), Monitoring of new legislation and high impact breaches
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
Effective scan width	932 mm
Original thickness	Maximum 0.8 mm; 0.03 in (non-rigid documents)
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 °C (recommended: 20 – 27 °C); 59 - 95 °F (recommended: 68 - 81 °F)
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 & environmental certificates	CE, TüV GS, cetecom advanced, c-UL-US, CB, RCM, ENERGY STAR 3.0, FEMP, EPEAT, CCC, EAC, FCC Class A, VCCI Class A, RoHS, Greenguard Gold
Earthquake provision[8]	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
Recyclables	Printer: made of steel and highly recyclable plastics, min 86% of the engine can either be upcycled or recycled. Remaining 14% are non toxic waste. Toner: cartridge packaging reused as maintenance cassette Prints: Deinkability certificate
Second life program	Compatibility with selected legacy scanners, folders and stackers

WORKFLOW SOFTWARE	
PRISMA TECH SUITE	Create breathtaking applications while staying in control of your printer with powerful workflow solutions that are designed to help you with your day to day print operation
PRISMAproduce Tech	Compose, manage and submit complex sets of documents from your web browser to one or more printers at a time
PRISMAlytics Dashboard	Get comprehensive overviews to monitor and maximise the production of your print operations with this secure cloud-based management information tool
PRISMAlytics Accounting	Capture data for cost charging and usage monitoring with this cloud-based reporting tool
PRISMAservice	Maximise your uptime with our CARE methodology: Collect data remotely, Analyze the data, Repair printers via remote assistance and Evaluate for continuous improvement
DRIVERS, SUBMITTERS, USER PANEL	
Drivers	Easy to use printer drivers that allow you to effectively and efficiently print from any application. Create, retrieve and/or send jobs from: · Driver Select for Microsoft Windows · Driver Express for Adobe PostScript 3 for Microsoft Windows or Apple OS
Job submission	· 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 · The colorWAVE T-series include RIP Support (e.g. Onyx Thrive)
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
CONTROLLER WORKFLOW	
Open architecture	Integrate smoothly into print management applications such as uniFLOW thanks to our POWERsync+ controller
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	View the counter history at preferred time periods, per job or total overview in WebTools Express. View, create, edit and delete stamp templates. Standard uniFLOW support installed on controller, login your personal uniFLOW Queue on the ClearConnect User interface. Supports accounting, manual authentication, card readers, and contactless card readers. Scan to email and scan to cloud is supported.
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, Remote ON function, ink/toner/remaining media 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)	Folder Express 3000, Folder Express 3001, Folder Express 3011, Folder Professional 6011, Folder Professional 6013, Stacker Select, Scanner Professional II

FOOTNOTES:

1	D size (34 x 22 in) / A1 size (841 x 594 mm)
2	E size (44 x 34 in) / A0 size (1189x 841 mm)
3	1 A1 landscape print to back output, in fastest print mode, from ready mode
4	1 copy made in A1 landscape. Print to back output, in fastest print mode, background compensation off, from ready mode
5	Weight includes 2nd drawer (separately packed)
6	Optional
7	Based on current third party support
8	Excluding cable/chain and mounting material

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