

ColorWorks® CW-C6000 Series

Color Inkjet Label Printers



CW-C6000A

CW-C6500P

**Introducing the future
of mission-critical
label printing.**

Reliability you can count on — engineered by Epson for demanding applications; backed by industry-leading service and support

First printers specifically designed as a color upgrade to black-and-white thermal transfer printers¹ — with similar media handling capabilities, speed, features and connectivity options, all at a comparable price point²

Enhanced productivity — eliminate the need to preprint; speeds up to 5" per second³; fast time to first label

Astounding image quality — up to 1200 dpi resolution with various droplet sizes; crisp images comparable to preprinted labels

Seamless integration — compatible with ZPL II®, major middleware, SAP®, Windows®, Mac® and Linux®

Remote printer management — for managing large fleets over the network

Applicator I/O control port for truly automated workflow — supports I/O commands; can be integrated into nearly any workflow

Low cost — comparable to existing thermal transfer printers²

Durable, high-quality labels — meets BS 5609 certification⁴

CW-C6000P and CW-C6500P — the first color inkjet label printers with a peel-and-present option⁵

CW-C6000A and CW-C6500A — auto cutter included

ColorWorks CW-C6000 Series label printers, engineered for demanding applications, are revolutionizing both monochrome and color label printing with rugged reliability you can count on, delivering dependable commercial inkjet printing with fast-drying, durable color inks and enhanced productivity.

Auto Peel-and-Present

Epson offers the first color inkjet label printers with peel-and-present capability⁵, which can help speed up the manual application of on-demand labels. An integrated label-taking sensor holds off subsequent printing until the previous label is removed. This unique feature is ideally suited for fully automated label application systems. It also eliminates the need for a loose loop and allows individual labels to be taken as soon as they are printed.



CW-C6000P 4"
Auto Peel-and-Present



CW-C6500P 8"
Auto Peel-and-Present

Auto Cutter

With a 4" or 8" built-in auto cutter covering the full spectrum of label sizes to create variable-length labels and enable easy job separation, these ColorWorks models offer cost and inventory reductions vs. using preprinted labels.



CW-C6000A 4"
Auto Cutter



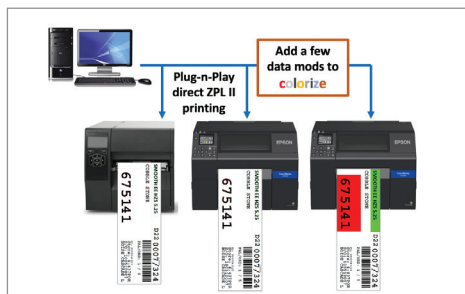
CW-C6500A 8"
Auto Cutter

Character size 2pt
Character size 3pt
Character size 4pt
Character size 5pt
Character size 6pt

===== 0.2 pt
===== 0.4 pt
===== 0.6 pt
===== 0.8 pt

High-Quality Printing

Epson-engineered PrecisionCore® TFP® printhead technology delivers ultra sharp text and precise barcodes. It also produces varying droplet sizes that, coupled with a 1200 x 1200 dpi resolution, can produce a huge gamut of vibrant, accurate colors, smooth gradations and fine image details. So, whether the challenge is to produce complex informational labels or high-quality product labels, the ColorWorks C6000 Series is up to the challenge.



ESC/Label® and ZPL II Interface Languages

ZPL II capabilities allow you to experience the advantages of Epson inkjet technology without reprogramming existing systems. ESC/Label command extensions can be added to unlock the power of color. Leverage color for color-coded fields, product pictures, logos and marketing messages to improve overall business processes and brand image.



Remote Management Tools

Epson designed the ColorWorks C6000 Series for large-scale enterprise environments. To support these high-volume scenarios, a wide range of remote management tools are available. These allow IT and support teams to remotely monitor the status of large fleets of printers, generate email alerts on items needing attention, remotely deploy firmware updates, set up complex network environments, and view or modify settings from any computer browser or Android® or Apple® powered smartphone.



General-Purpose I/O Port

Designed for mission-critical production, all ColorWorks C6000 Series printers come equipped with a general-purpose I/O port. This gives automation developers the control they need to seamlessly integrate the printer into their automated workflow. The port provides all the necessary information on supply levels, status, faults and readiness. Inputs enable users to pause, clean and print.

Media	Gloss Black Ink SJIC35P (BK), UltraChrome® DL	Matte Black Ink SJIC35P (MK), UltraChrome DL
Plain paper – uncoated	Good image	Richer image – darker black
Matte paper – coated	Good image	Richer image – darker black
Matte synthetic – coated	Good image, BS 5609 certified ⁴	Richer image – darker black, BS 5609 certified ⁴
Textured paper	Good image	Richer image – darker black
Low-gloss paper – coated	Excellent image	Good image
Semi-gloss paper – coated	Excellent image	Not recommended
High-gloss paper – coated	Excellent image	Not recommended
High-gloss synthetic – coated	Excellent image	Not recommended

Versatile Ink Types

The ColorWorks C6000 Series uses highly durable pigment-based inks, with Gloss and Matte models available to best suit the labeling application. The Gloss Black Ink can print on a wider variety of substrates. The Matte Black Ink offers darker, sharper black text and images on matte media. Both model types have been BS 5609 certified⁴.

Printer

Print Method: Serial inkjet PrecisionCore TFP
Image Security: Nozzle Verification Technology, auto head maintenance and auto missing dot compensation
Ink Type: UltraChrome DL pigment ink
Ink Colors: CMYK in individual cartridges
Control Panel: 2.7" full-color graphic display and 13-key pad allow for local configuration and operation
Indicators: Power, status and pause LEDs, beeper
Color Correction: ICC color profiles, RGB spot color substitution, driver-based color adjustment
Banner Printing: Supports pages sent in segments to produce large signs without gaps
Barcode Font: UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), Code39, ITF, Codabar, Code93, Code128, GS1-128, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded
Two-Dimensional Code Printing: PDF417, QR Code, Maxi Code, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked, DataMatrix, Aztec Code, MicroPDF417, Micro QR Code
Cutter Life (Cuts):
 Paper Liner: Up to 1.5 million
 Synthetic Liner: Up to 0.5 million
 Continuous Matte Paper: Up to 0.5 million
 Continuous Gloss Paper: Up to 0.3 million
 Continuous Synthetic: Up to 0.1 million
Printer Durability:
 Permanent printhead
 Feeding mechanism: 7.8 million inches (200 km) before major service

Media

Media Sources: Internal roll-fed, rear-feed fanfold, external rear-powered unwinder
Media Construction: Standard die-cut label with or without black mark, die-cut label with matrix on and black mark, continuous tag stock with or without black mark, continuous label with or without black mark
Media Types: Inkjet Coated Matte Paper, Gloss Paper, High-Gloss Synthetic, Fine Paper, PET Film, Matte Synthetic, Uncoated Plain Paper
Thickness: 0.005" – 0.009" (0.129 mm – 0.236 mm)
Label Length:
 Maximum: 24" (610 mm)
 Minimum: 0.31" (8 mm) without finishing; 0.50" (13 mm) peeling; 0.59" (15 mm) cutting
Roll Media Core Diameter: 3" (76 mm)
Die-Cut Label Gap: 2 mm – 6 mm
Gap Sensor Location: Adjustable 0.4" – 2.4" (10 mm – 60 mm) in 0.2" (5 mm) steps from left paper guide
Black Mark Sensor Location: Fixed at 0.5" (12 mm) from left paper guide
Black Mark Size: Min. 0.72" x 0.16" (18 mm x 4 mm) (W x H)

General

Interfaces: Ethernet 1000-T/100-TX/10-T, USB 2.0
Operating Systems: Windows 10, 8.1, 8, 7 SP1; Windows Vista® SP2; Windows Server® 2019, 2016, 2012 R2, 2012, 2008 R2, 2008; macOS® 10.6.8 or later; Linux

General (Continued)

Direct Command-Based Printing: Zebra® ZPL II native language support, plus command extensions, to allow for colorization of data; ESC/Label color command language
General-Purpose I/O Port: 25-pin D-Sub connector; provides detailed status on supply levels, faults and readiness; enables control to pause, clean and print
Remote Management Tools: Epson Device Admin, WebConfig, Epson Monitoring Tool, Printer Setting Utility, Epson Deployment Tool, EpsonNet Setup Manager, EpsonNet Config SE, Epson Firmware Updater
Operating Temperature:
 5 °C to 35 °C / 20% – 80% RH humidity
Storage Temperature:
 -20 °C to 60 °C / 5% – 85% RH humidity
Power Consumption:
 50 W – 60 W Printing (average printing)
 4.1 W – 4.4 W Standby
 0.2 W – 0.5 W Power-Off State
Rated Voltage: AC 100 V – 240 V AC
Rated Frequency: 50 Hz – 60 Hz
Acoustic Noise: Approx. 55 dB(A)
EMI: FCC/ICES-003 Class A, VCCI Class A, CE Marking
Safety Standards: UL-1950/CSA C22.2 No. 950, TUV, GOST-R
Warranty: 1-year limited warranty with Return for Repair

What's Included

ColorWorks CW-C6000/CW-C6500 printer, AC power cord, four ink cartridges (CMY plus Gloss Black or Matte Black), maintenance box, instruction sheet

Ordering Information

CW-C6000A Printer (Gloss) - 4" Auto Cutter	C31CH76A9991
CW-C6000A Printer (Matte) - 4" Auto Cutter	C31CH76A9981
CW-C6000P Printer (Gloss) - 4" Peeler	C31CH76A9971
CW-C6000P Printer (Matte) - 4" Peeler	C31CH76A9961
CW-C6500A Printer (Gloss) - 8" Auto Cutter	C31CH77A9991
CW-C6500A Printer (Matte) - 8" Auto Cutter	C31CH77A9981
CW-C6500P Printer (Gloss) - 8" Peeler	C31CH77A9971
CW-C6500P Printer (Matte) - 8" Peeler	C31CH77A9961
SJIC35P-BK Ink Cartridge (Gloss Black)	C13T44B120
SJIC35P-MK Ink Cartridge (Matte Black)	C13T44B520
SJIC35P-C Ink Cartridge (Cyan)	C13T44B220
SJIC35P-M Ink Cartridge (Magenta)	C13T44B320
SJIC35P-Y Ink Cartridge (Yellow)	C13T44B420
SJMB6000/6500 Maintenance Box	C33S021501
SP8X Spare Spindle 8"	C32C881101
SP4X Spare Spindle 4"	C32C881301

Print Mode and Speed Table

Print speeds are based on the print engine speed only. Total throughput time for any label depends on factors including label size, file size, print resolution, speed of data transmission, etc.

Printer Speed (Inches per Second)	Resolution (dpi)	Head Passes	2.2" (56 mm)	3.5" (89 mm)	6" (153 mm) (C6500 Models Only)	8" (203 mm) (C6500 Models Only)
Max. Speed	300 x 600	1	5.8	5.0	3.9	3.4
Speed	600 x 600	1	3.9	3.2	2.4	1.9
Normal	600 x 600	2.5	2.3	2.1	1.6	1.3
Quality	600 x 1200	6	0.9	0.7	0.6	0.5
Max. Quality	1200 x 1200	12	0.4	0.3	0.3	0.2

1 The CW-C6000/C6500 family is the first to bring to market the combination of features of direct ZPL II printing, peel-and-present, remote printer management, companion four- and eight-inch models, applicator I/O interface, broad middleware support and comparable price points. 2 Printers and consumable costs are similar when comparing similarly featured leading brand thermal transfer printers and supplies for similar high-durability images on similar media. 3 In Max. Speed Mode, 300 x 600 dpi, 3.5" (89 mm) print width. Print speeds are based on the print engine speed only. Total throughput time for any label depends on factors including label size, file size, print resolution, speed of data transmission, etc. 4 ColorWorks CW-C6000/C6500 inkjet printers with UltraChrome DL pigment ink, used in combination with Avery Dennison Fasson® 3.5M Matte WH Syn Paper WBIJS4600/50/SCK (Spec 79724), have been BS 5609 certified. 5 Compared to color inkjet label printers available in the U.S. and Canada as of July 2019.



Epson America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

Epson Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3

www.epson.com
www.epson.ca

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Contact:

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(844) 477-4911 | www.ipsiscan.com