High-Speed Dye-Sub Digital Color Printer

CP-D90DW

Compact
Fast-Printing
Outstanding print quality
User-friendly
System Flexibility
Support Multiple Sizes

■CP-D90DW Specifications

Model	CP-D90DW		
Print Technology	Dye sublimation thermal transfer full color. Three-color face progressive printing (yellow, magenta, cyan) plus surface lamination		
Gradations	256 Gradations (8 bit per color, approx. 16.7 million colors)		
Print Resolution	300 DPI		
Print Finish	Glossy/Matte		
Paper Capacity	Thick-Grade Media (approx. 230µm)	89 x127mm (3.5x5")	450
		102x152mm (4x6")	400
		127x178mm (5x7")	230
		152x203mm (6x8")	200
		152x229mm (6x9")	180
	Light Media (approx. 210µm)	102x152mm (4x6")	430
		152x203mm (6x8")	215

Print Speed*3	Print Size	Fine Mode	Auto Mode		Ultra Fine Mode
			Light Image	Dark Image	
	89 x 127mm (3.5x5")	approx. 8.4sec			approx. 16.8sec
	102 x 152mm (4x6") *4	approx. 7.8sec			approx. 16.7sec
	127 x 178mm (5x7")	approx. 13.2sec			approx. 28.8sec
	152 x 203mm (6x8")	approx. 14.6sec			approx. 32.2sec
	152 x 229mm (6x9")	approx. 16.2sec			approx. 35.8sec

| Interface	Hi-Speed USB Ver. 2.0
Available Software Drivers	Windows®7/8/10(32bit/64bit)*1, MacOS®10.6~10.11*2
Memory Size	128MB Volatile Memory for Temporary Retention. Data are erased after printing.
Dimensions (WxDxH)	Approx. 275x365x237mm(10.8"x14.4"x9.3")
Weight	Approx. 14kg (30.0lb)
Power Supply	100-240V AC 50/60Hz
Power Consumption	100-240V AC 50/60Hz 5.5A
DC Output Terminals	12V / 2.0A max 5V / 2.0A max *5
Accessories	Paper flange(1), Paper flange spacer(1), Ink cassette(1), Paper strip bin(1), Paper tray, AC power cord(120V), AC power cord(220-240V)(1), CD-ROM(1), Cable ties(2), Securing band/Screws/Washer(1set),Quick set up guide(1)

*1: Windows® 7, 8 and 10 are registered trademarks of Microsoft Corporation in the United States and/or other countries.
*2: Mac OS X print driver are available on the website. Mac OS are trademarks of Apple Computer, Inc. in the United States and/or other countries.
*3: Does not include data transfer, printer initialization and paper feed times.
*4: Single print speed of 2-up print with CK-D768
*5: DC Power Output Terminals cannot be used simultaneously, only one can be active at any given moment.

■Part names

Front panel   **Opening the door**   **Panel (Right, Full View)**   **Panel (Left, Partial View)**   **Rear panel**

1. ALARM INDICATOR
2. PAPER RIBBON INDICATOR
3. POWER INDICATOR   4. PRINT OUTLET
5. OPEN BUTTON   6. PAPER STRIP BIN
7. VENTILATION INLET   8. PRINTING UNIT
9. DOOR

1. VENTILATION INLETS   2. DC POWER SWITCH
3. 5 V DC OUTPUT TERMINAL USB TYPE-A (2 A MAX.)   4. USB TERMINAL
5. POWER SWITCH   6. POWER SOCKET (AC LINE)
7. RECESSED AREA FOR TRANSPORTING   8. SECURING HOLES FOR THE CABLE TIE
9. HANDLE FOR TRANSPORTING   10. VENTILATION OUTLETS
11. 12 V DC OUTPUT TERMINAL (2 A MAX.)

■Air cooling direction flow

Front side   Thermal Head   **Rear side**
Dust-Trapping Filter
Blows air out to prevent dust and dirt from entering from the front of the unit.
Paper exit port
Paper
Fan
Fan
Power supply

CP-D90DW incorporates a separator design to distribute airflow separately to the power supply and the printing thermal head.The effective air cooling increases the throughput while reducing print contamination.

■Consumables (Media, sold separately)

Model	Size	Prints per roll	Rolls per box	Thickness
CK-D735	89 x 127mm (3.5x5")	450 prints	2	approx.230µm
CK-D746	102 x 152mm (4x6")	400 prints	2	
CK-D757	127 x 178mm (5x7")	230 prints	2	
CK-D768	152 x 203mm (6x8")*	200 prints	2	
CK-D769	152 x 229mm (6x9")*	180 prints	2	
CK-D868	152 x 203mm (6x8")*	215 prints	2	approx.210µm

*Maximum size indicated. However, printer will still support printing multiple, smaller print sizes from this media model.

eco Changes
for a greener tomorrow
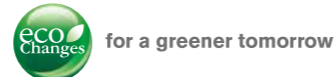
Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

New publication, effective February 2016
Specifications are subject to change without notice.

MITSUBISHI ELECTRIC

Changes for the Better

DIGITAL COLOR PRINTER

ISO9001
JQA-0521

High-Speed Dye-Sub Digital Color Printer

CP-D90DW

Prints Fast with Exceptional Quality.
The New Mitsubishi Compact Dye-Sub Printer to Expand Your Photo Printing Business.

Compact
Fast-Printing
Outstanding print quality
User-friendly
System Flexibility
Support Multiple Sizes

POWER
PAPER
RIBBON
ALARM

MITSUBISHI ELECTRIC
DIGITAL COLOR PRINTER
D90

Empty the strip bin before opening

Outstanding product reliability and durability backed by Mitsubishi Electric's over 30 years of history in development and manufacture of dye-sub printers with over 100 thousand units installed worldwide.

for a greener tomorrow   eco Changes
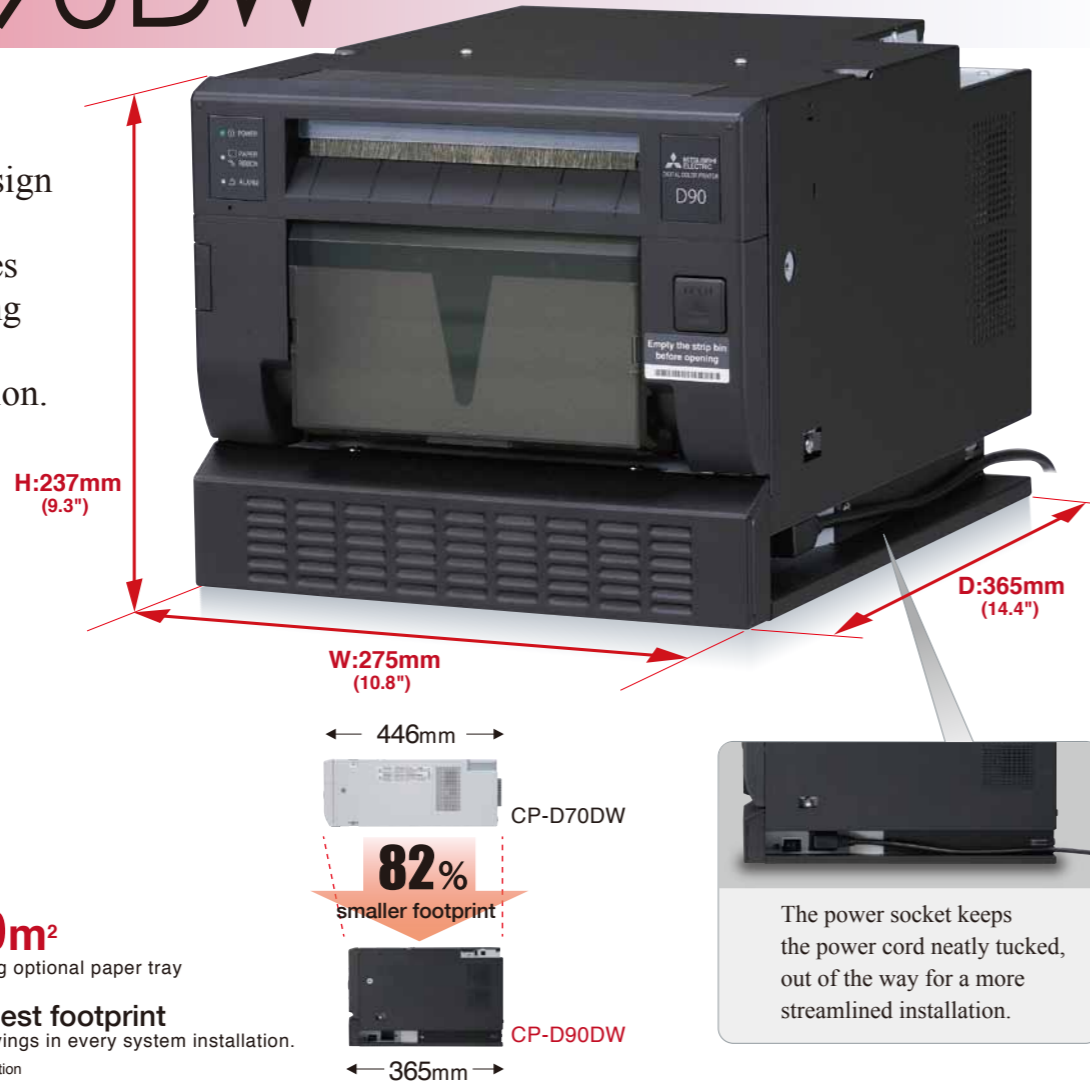
High-Speed Dye-Sub Digital Color Printer
CP-D90DW

Compact

The new, compact design of the CP-D90DW strategically minimizes protruding and hanging cables for a neat, space-saving installation.

H:237mm (9.3")

W:275mm (10.8")

D:365mm (14.4")

446mm

82% smaller footprint

CP-D70DW

CP-D90DW

365mm

0.10m²
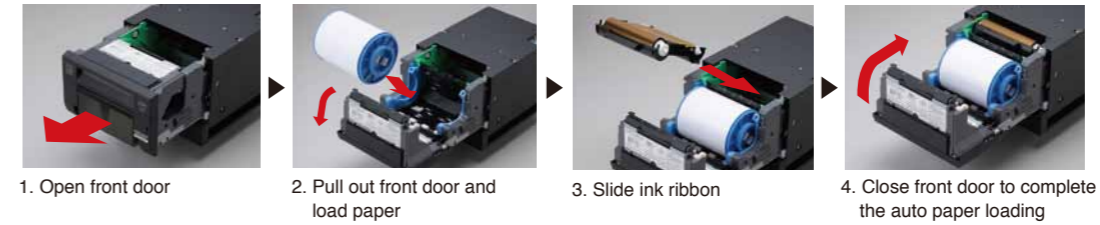excluding optional paper tray

One of the world's smallest footprint
Providing overall space and cost savings in every system installation.
*Among 400 prints class, an in-company investigation

The power socket keeps the power cord neatly tucked, out of the way for a more streamlined installation.

User-friendly

CP-D90DW is designed for ease of use and quick maintenance with front-loading design for media.

Easy Media Loading

1. Open front door
2. Pull out front door and load paper
3. Slide ink ribbon
4. Close front door to complete the auto paper loading

Maintenance
Easy access to the thermal head for cleaning.

- An energy-saving mode helps save operational cost by minimizing power consumption when on stand-by
- Long-life thermal head built with a coat of extra protective layer provides longevity and durability to minimize the total cost of ownership.
- Flanges attach easily to the paper roll by a quick pinch of latches.
- Power switch is easily accessible from the front of the unit.
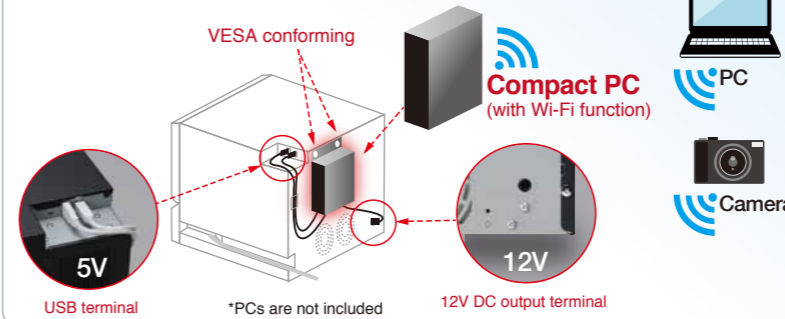
System Flexibility

With available DC output terminals of 5V 2A and 12V 2A, small, low-powered computer like Stick PC, or mobile devices can easily be powered through the printer, supporting a broader range of possible applications such as wireless printing, helping build a cost-efficient printing station more easily.

VESA conforming

Smartphone Tablet

Compact PC (with Wi-Fi function)

PC

Camera

5V
USB terminal

*PCs are not included

12V
12V DC output terminal

Support Multiple Sizes

CP-D90DW has a wide range of the media size lineup. Moreover, it supports various print sizes using a Software Development Kit for customize applications. More than 51mm(2") toward paper feeding direction, 1 dot step.

178mm (7")
89mm (3.5")
127mm (5")

229mm (9")
203mm (8")
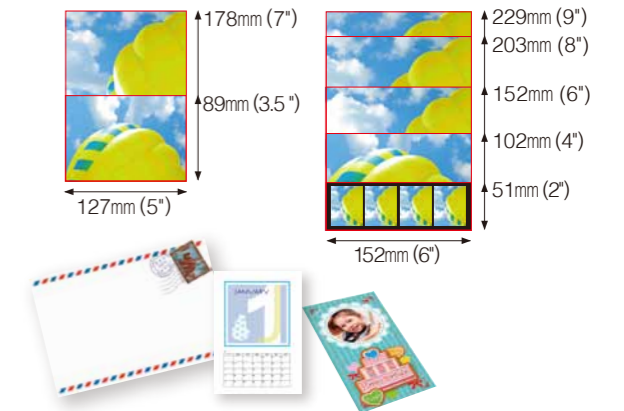152mm (6")
102mm (4")
51mm (2")
152mm (6")

Supports 2 Types of Paper
CP-D90DW is compatible with all Thick-Grade media used by the D70 series printers, as well as Light media with higher print counts per roll.

Efficient Rewind Function
The rewind function offers cost savings and work-flow efficiency. It maximizes media usage through support of printing multiple sizes using only a single type of media.

Outstanding print quality with High speed

Mitsubishi Electric's CP-D90DW comes with an Image Analyzing Engine built-in to enable faster printing without compromise on image quality. Each image received is built and analyzed within the printer processor with its print density and details analyzed and printed accordingly, yielding the best result with every photo printed.

Optimized "First print" speed
The built-in image processor of the CP-D90DW reduces the processing workload of external computers, cutting down the overall initialization time of the first print output of every job it receives.

Improved Throughput
The improved thermal head cooling design of the CP-D90DW allows it to print more than 450 102 x 152mm(4 x 6") prints per hour*.

*Average speed of a single print from 102x152mm(4x6") size 2-up prints in its best condition, excluding media reloading time.
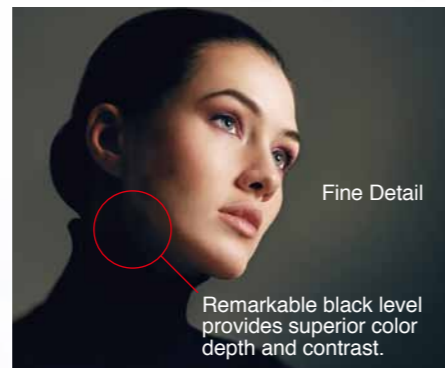
Deeper Black

Conventional Models

CP-D90DW
Prints photos with remarkable clarity, vivid colors, and higher quality finish.

Fine Detail

Remarkable black level provides superior color depth and contrast.

Clearer prints with no blurring even in fine lines and details. No deterioration or compromise of original image details.

New humidity sensor
The new, built-in humidity sensor restrains effect of humidity change and brings stable high quality.

Automatic Optimization of Printing Speed

Light or Medium Image

Image Analyzing Engine

approx. **7.8sec***

Dark or Densely Colored Image

Print

approx. **16.7sec***

Auto Mode
Printer's system engine analyzes incoming image data and optimizes printing speed automatically to achieve higher quality printed image in Auto Mode. In case priority is given to the throughput, the fastest print is available with using Fine Mode.

Despite printing in higher speed, deep black portions are sufficiently achieved in darker areas of the same photo.

Printing speed is adjusted to accommodate the requirement of printing a darker image photograph in higher density, producing a higher quality output.

*Average speed of a single print from 102x152mm(4x6") size 2-up prints in Auto mode, excluding data transfer time

All photo illustrations in this material are simulated only. Actual print samples need to be generated to see actual difference.