

Ficha técnica

Epson

Modelos / familias

AL-M400DTN

Fuente del fabricante

User's Guide (v6.0)

<https://download.epson-europe.com/pub/download/6525/epson652522eu.pdf>

Las páginas siguientes son un extracto técnico del documento oficial del fabricante.

Appendix

Appendix

Technical Specifications

General

Item		AL-M320DN	AL-M310DN	AL-M220DN
Printing method		Laser beam scanning and dry electrophotographic process		
Resolution		600 × 600 dpi, 1200 × 1200 dpi		
Continuous printing speed on A4 size paper* ¹		40 ppm	35 ppm	30 ppm
Paper feed		Automatic or manual feed		
Paper feed alignment		Center alignment for all sizes		
Automatic 2-sided printing function		Standard		
Printer language		ESC/PageS Printing system, ESC/Page ESC/P 2 24-pin printer emulation (ESC/P 2 mode) ESC/P 9-pin printer emulation (FX mode) IBM Proprinter emulation (I239X mode) PostScript compatible with PostScript Level 3 (PS3 mode) PCL6/PCL5 emulation (PCL mode) PDF 1.7		
Memory	RAM	1024MB	512MB	512MB
Interfaces	USB	Hi-Speed USB		
	Ethernet:	1000BASE-T/100BASE-TX/10BASE-Te		
Supported protocols		TCP/IP (IPv4, IPv6), LPR, Port9100, WSD, Bonjour, IPP/IPPS, HTTP/HTTPS, SNMP, SMTP, LLTD, IPSec, 802.1X		
Resident fonts		84 scalable fonts, and 7 bitmap fonts for ESC/Page 95 scalable fonts, and 5 bitmap for PCL5 80 scalable fonts, and 1 bitmap for PCL6 80 scalable fonts for PostScript3 compatible with PostScript Level 3 10 typeface for ESC/P2 8 typeface for FX 8 typeface for I239		

Appendix

Item		AL-M320DN	AL-M310DN	AL-M220DN
Printable area		The assured printable area is an area 4 mm from all sides.		

^{*1} Depending on the paper type or size, such as printing on paper smaller than A4, the print speed may become slower. The abbreviation "ppm" means "pages per minute".

^{*2} Figures in mm are rounded off to the nearest whole number.

^{*3} MP tray closed.

^{*4} Excluding protrusions.

^{*5} Excluding consumable products and options.

^{*6} For high altitude locations, the printer's Highland setting in the [Printer Adjust Menu](#) must be adjusted according to the altitude at which the printer is located. See ["Printer Adjust Menu" on page 104](#) for details.

Appendix

Electrical

			AL-M320DN		AL-M310DN		AL-M220DN
Rated voltage			110 V	220-240 V	110 V	220-240 V	110 V
Rated frequency			50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
Rated current			8.8 A	4.2 A	8.8 A	4.2 A	8.8 A
Power consumption	During printing	MAX	930 W	870 W	940 W	880 W	940 W
		Average	624 W	609 W	569 W	594 W	517 W
	In deep sleep mode		0.87 W	0.87 W	0.86 W	0.87 W	0.92 W
	In ready mode		7 W	7 W	7 W	7 W	7 W
	In power off mode		0.05 W	0.05 W	0.05 W	0.05 W	0.05 W
	Power off		0.05 W	0.05 W	0.05 W	0.05 W	0.05 W

Note for users in Europe:

See the following Website for details on power consumption.

<http://www.epson.eu/energy-consumption/>

Note for users in Taiwan:

Rated voltage of this printer in Taiwan is 110 V.

Supported operating systems

Windows 10 (32-bit, 64-bit)/Windows 8.1 (32-bit, 64-bit)/Windows 8 (32-bit, 64-bit)/Windows 7 (32-bit, 64-bit)/Windows Vista (32-bit, 64-bit)/Windows XP SP3 or higher (32-bit), Windows XP Professional x64 Edition SP2 or higher/Windows Server 2016/Windows Server 2012 R2/Windows Server 2012/Windows Server 2008 R2/Windows Server 2008/Windows Server 2003 R2/Windows Server 2003 SP2 or higher

Mac OS X v10.6.8 - v10.11.x, macOS 10.12

Support Mode Settings using the control panel



Important:

Remove interface cables before you enter the SUPPORT MODE.

Support Menu

You can make special settings by using the control panel. Normally you do not need to change the settings.

Appendix

For AL-M320DN/AL-M310DN:

Pressing the **▼ Down** button while turning the printer on, opens the **SUPPORT MODE**. Press the **► Right** button, select **Common Settings** by pressing the **▲ Up** or **▼ Down** button, then select the **Support Menu**.

For AL-M220DN:

While pressing Alt, Ctrl and Z at the same time, click the **Extended Settings** button. The Support Menu appears.

Item	Explanation
1 Support StatusSheet	Prints a sheet showing information about settings of Support Menu and Printer Adjust Menu .
7 Extend Print Area*	On enlarges the maximum print area according to the printed data.
9 Printer MIBv1 Mode	On uses MIBv1 as a policy rule definition reporting the printer information to the SNMP manager.
10 USB ID	Printers of the same model that are set to Common are recognized as the same device on the computer because they are using a common USB device ID. The plug and play screen is not displayed even if you switch the printer for a different printer that is the same model. Settings (default in bold): Unique , Common
11 MP Size Setting 12 C1 Size Setting 13 C2 Size Setting* 14 C3 Size Setting*	Prints on the paper size specified in the Tray Menu . Paper sizes that were specified for the print job from the printer driver are ignored.
17 ShowSleepByRdyLamp*	The Ready light flashes when in deep sleep mode. Turning this to On is useful when the printer is installed in a place where it is difficult to see that the deep sleep mode light is lit.

* AL-M320DN/AL-M310DN only

Printer Adjust Menu

You can make special settings by using the control panel. Normally you do not need to change the settings.

For AL-M320DN/AL-M310DN:

Pressing the **▼ Down** button while turning the printer on, opens the **SUPPORT MODE**. Press the **► Right** button, select **Common Settings** by pressing the **▲ Up** or **▼ Down** button, then select the **Printer Adjust Menu**.

For AL-M220DN:

While pressing Alt, Ctrl and Z at the same time, click the **Extended Settings** button. The Printer Adjust Menu appears.

Note:

The settings in this menu may affect the remaining service lives of consumable products.

Appendix

Item	Explanation
001 Plain	Adjusts the print quality for plain paper according to paper type.
	Settings (default in bold): 1: Plain paper 2: Semi-thick paper For users of AL-M310DN and AL-M220DN in Taiwan: The default setting is 1: Plain paper.
020 Special	Adjusts the print quality for special paper according to the paper type.
	Settings (default in bold): 0: Thin paper 1: Plain paper 2: Semi-thick paper 3: Letterhead 4: Thick paper 5: Extra-thick paper 6: Super-thick paper 7: When printing graph patterns, etc., on paper that is damp or paper that has been left out for a long time 8: When printing graph patterns, etc., on paper that is even damper or paper that has been left out for an even longer time than in 7 9: When you want to reduce the effects that hole punches have on images 10: When you want to reduce the effects that hole punches have on images even more than in 9
051 Feed Offset	Do this adjustment after you have eliminated the variation between the paper sources by 055/059/063/067/071/075 This function adjusts the vertical position at which to start printing. The position moves lower on the sheet of paper as the value increases. This setting is used when doing single-sided printing or printing on the back side of the sheet of paper for duplex printing.
	Settings (default in bold): -3.5 ... 0.0 ... 3.5 mm in 0.5 mm increments
052 Scan Offset	Do this adjustment after you have eliminated the variation between the paper sources by 056/060/064/068/072/076. This function adjusts the horizontal position at which to start printing. The position moves to the right of the sheet of paper as the value increases. This setting is used when doing single-sided printing or printing on the back side of the sheet of paper for duplex printing.
	Settings (default in bold): -3.5 ... 0.0 ... 3.5 mm in 0.5 mm increments
053 Feed Offset2	Do this adjustment after you have eliminated the variation between the paper sources by 057/061/065/069/073/077. This function adjusts the vertical position at which to start printing. The position moves lower on the sheet of paper as the value increases. This setting is used when printing on the front side of the sheet of paper for duplex printing.
	Settings (default in bold): -3.5 ... 0.0 ... 3.5 mm in 0.5 mm increments

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Item	Explanation
054 Scan Offset2	Do this adjustment after you have eliminated the variation between the paper sources by 058/062/066/070/074/078. This function adjusts the horizontal position at which to start printing. The position moves to the right of the sheet of paper as the value increases. This setting is used when printing on the front side of the sheet of paper for duplex printing.
	Settings (default in bold): -3.5 ... 0.0 ... 3.5 mm in 0.5 mm increments
055 Feed Reg1 MP 059 Feed Reg1 C1 063 Feed Reg1 C2* 067 Feed Reg1 C3*	Adjusts the vertical position at which to start printing and eliminate the variation between the paper sources. The position moves lower on the sheet of paper as the value increases. This setting is used when feeding paper for single-sided printing or printing on the back side of the sheet of paper for duplex printing.
*AL-M320DN/AL-M310DN only	Settings (default in bold): -3.5 ... 0.0 ... 3.5 mm in 0.5 mm increments
056 Scan Reg1 MP 060 Scan Reg1 C1 064 Scan Reg1 C2* 068 Scan Reg1 C3*	Adjusts the horizontal position at which to start printing and eliminate the variation between the paper sources. The position moves to the right of the sheet of paper as the value increases. This setting is used when feeding paper for single-sided printing or printing the back side of the sheet of paper for duplex printing.
*AL-M320DN/AL-M310DN only	Settings (default in bold): -3.5 ... 0.0 ... 3.5 mm in 0.5 mm increments
057 Feed Reg2 MP 061 Feed Reg2 C1 065 Feed Reg2 C2* 069 Feed Reg2 C3*	Adjusts the vertical position at which to start printing and eliminate the variation between the paper sources. The position moves lower on the sheet of paper as the value increases. This setting is used when feeding paper for printing on the front side of the sheet of paper for duplex printing.
*AL-M320DN/AL-M310DN only	Settings (default in bold): -3.5 ... 0.0 ... 3.5 mm in 0.5 mm increments
058 Scan Reg2 MP 062 Scan Reg2 C1 066 Scan Reg2 C2* 070 Scan Reg2 C3*	Adjusts the horizontal position at which to start printing and eliminate the variation between the paper sources. The position moves to the right of the sheet of paper as the value increases. This setting is used when feeding paper for printing on the front side of the sheet of paper for duplex printing.
*AL-M320DN/AL-M310DN only	Settings (default in bold): -3.5 ... 0.0 ... 3.5 mm in 0.5 mm increments
201 Highland	Adjust this setting if black dots appear on the printed page when using the printer in locations at high altitudes. Increasing the value makes the printer more suited for higher altitudes. For the altitudes at which this printer can be operated, see "General" on page 101.
	Settings (default in bold): 0 ... 3 (step 1)
202 Main Charger	Adjusts the print density by correcting for the voltage of the main charger. The printout becomes lighter as the value increases.
	Settings (default in bold): 0 ... 4 ... 7 (step 1)
203 Drum Refresh	Refreshes the drum. It may alleviate smears on the printouts. Note that before refreshing the drum, make sure no paper is loaded in the MP tray.