



# HP LaserJet CM1312nfi Laser 600 x 600 DPI 12 ppm

Brand : HP

Product family: LaserJet

Product code: CC431A

Product name : CM1312nfi

Color LaserJet CM1312nfi MFP

HP LaserJet CM1312nfi. Print technology: Laser, Printing: Colour printing, Maximum resolution: 600 x 600 DPI, Print speed (colour, normal quality, A4/US Letter): 8 ppm. Copying: Colour copying, Maximum copy resolution: 600 x 600 DPI. Scanning: Colour scanning, Optical scanning resolution: 1200 x 1200 DPI. Faxing: Colour faxing. Product colour: Black, Grey



Printing		Operational conditions	
Print technology *	Laser	Storage relative humidity (H-H)	10 - 95%
Printing *	Colour printing	Operating temperature (T-T)	68 - 81 °F
Duplex printing *	✗	Operating altitude (imperial)	Up to 10,000 ft
Maximum resolution *	600 x 600 DPI	<b>Sustainability</b>	
Print speed (black, normal quality, A4/US Letter) *	12 ppm	Sustainability certificates	Blue Angel, ENERGY STAR
Print speed (colour, normal quality, A4/US Letter)	8 ppm	<b>Weight &amp; dimensions</b>	
Print speed (black, draft quality, A4/US Letter)	12 ppm	Width	497 mm
Time to first page (black, normal)	25.5 s	Depth	490 mm
Print speed (black, best quality, A4)	12 ppm	Height	485 mm
Print speed (colour, best quality, A4)	8 ppm	Weight	24.7 kg
Print speed (black, best quality, letter)	< 12	<b>Packaging data</b>	
Print speed (colour, best quality, letter)	< 8	Package width	600 mm
<b>Copying</b>		Package depth	600 mm
Copying *	Colour copying	Package height	589 mm
Maximum copy resolution *	600 x 600 DPI	Package weight	35.3 kg
Time to first copy (letter)	19 sec	<b>Packaging content</b>	
Maximum number of copies	99 copies	HP Toolbox, HP LaserJet Scan, TWAIN 1.9 or WIA scanner drivers, HP LaserJet Fax, HP Fax Setup Wizard, HP Fax software, Readiris PRO text recognition software (not installed with other software, separate installation required), printer drivers (HP PCL 6, HP PCL 5e, HP Postscript level 3 emulation), installer/uninstaller, HP Director (Macintosh)	
Copy resolution (black graphics)	Up to 600 x 600 dpi	Bundled software	
Copy resolution (colour text and graphics)	600 DPI		
Left metric copy margin	4.2 mm		
Right metric copy margin	4.2 mm		
Top metric copy margin	4.2 mm		

<b>Copying</b>		<b>Logistics data</b>	
Copier settings	Contrast (lighter/darker), quality (copy optimize), reduce/enlarge 25 to 400%, number of copies, paper size, paper type, multi-page copy, collation, copy draft, image adjustment lightness, image adjustment contrast, image adjustment sharpen, image adjustment background removal, image adjustment color balance, image adjustment grayness	Pallet gross weight	197.3 kg
Bottom copy margin	4.2 mm	Master (outer) cases per pallet	6 pc(s)
Maximum copy speed (black, A4)	12 cpm	Layers per pallet	6 pc(s)
Maximum copy speed (colour, A4)	8 cpm	Products per pallet	6 pc(s)
Copy speed (black, best, letter)	Up to 20 cpm	<b>Other features</b>	
<b>Scanning</b>		Standard input trays	1
Scanning *	Colour scanning	I/O ports	1 USB, 1 Ethernet, photo slots
Optical scanning resolution *	1200 x 1200 DPI	Networking features	Via Built-in 10/100 Base-TX Fast Ethernet RJ-45 port
Maximum scan area	216 x 297 mm	Dimensions (WxDxH)	497 x 490 x 485 mm
Scanner type *	Flatbed scanner	Acoustic power emissions	6.1 B(A) (printing at 12 ppm), 6.4 B(A) (maximum copy/scan), inaudible (ready)
Input colour depth	24 bit	Acoustic pressure emissions	47 dB
Greyscale levels	256	Copier smart software features	Up to 99 multiple copies, scan once print many, collation, reduce/enlarge from 25 to 400% (with page-size presets), fit to page, two or four pages to one page, customisable copy presets, contrast (lighter/darker), resolution (copy quality), network protocols supported
TWAIN version	Version 1.9	Custom media sizes	76 x 127 to 216 x 356 mm
Scan input modes	Remote initiated scanning via HP Director, TWAIN-compliant or WIA-compliant software, HP Solution Center software	Duplex print options	Manual (driver support provided)
Scanner features	Advanced instant-on CCD flatbed Scanner for immediate results on individual sheets, books, bound documents, or even 3-D objects; TWAIN, WIA Drivers; HP Scanning software; scan key on control panel for scan-to-e-mail and scan-to-folder capability; 50 sheet Automatic Document Feeder (ADF) for unattended scanning of multiple pages; automatic scan calibration, scan image straightening, cropping, and image enhancement; HP Document Viewer for document annotation capability; Readiris PRO text recognition software	Duty cycle letter size (maximum)	30000 pages per month
Scan speed (black, normal quality)	Up to 3 ppm	Media weights by paper path	60 to 176 g/m <sup>2</sup> (up to 200 g/m <sup>2</sup> with HP laser cover papers, up to 220 g/m <sup>2</sup> with HP laser glossy photo papers)
Scan speed (colour, normal quality)	Up to 3 ppm	Pallet dimensions (W x D x H)	1200 x 600 x 1928 mm
Minimum scan size	5.4 x 7 cm	Power requirements	Input voltage 110 to 127 VAC (+/- 10%), 60 Hz (+/- 2 Hz), 220 to 240 VAC (+/- 10%), 50 Hz (+/- 2 Hz)
<b>Fax</b>		Print quality (black, draft quality)	600 DPI
Faxing *	Colour faxing	Print quality (colour, best quality)	600 DPI
Modem speed	33.6 Kbit/s	Printer management	HP Toolbox, HP Web Jetadmin, HP Embedded Web Server, HP Easy Printer Care Software
Fax memory	250 pages	Standard media sizes	A4, A5, A6, B5 (ISO, JIS)
Auto-redialing	✓	Typefaces	80 TrueType internal scalable PCL 6, 80 TrueType internal scalable Postscript
Fax speed dialing (max numbers)	120	Modem type	V.34 fax modem (up to 33.6 kbps) and 2 RJ-11 ports
Fax forwarding	✓	Media types supported	Paper (bond, brochure, colour, glossy, letterhead, photo, plain, preprinted, prepunched, recycled, rough), transparencies, labels, envelopes, cardstock A4, A5, B5 (ISO, JIS), 127 x 127 to 216 x 356 mm (CM1312nfi)
Fax broadcasting	120 locations	Minimum system requirements for Macintosh	Mac OS X v 10.3.9, v10.4.x, v10.5.x; PowerPC G3, G4, or G5 processor; Intel Core processor; 80 MB RAM, 30 MB available hard disk space; USB port; CD-ROM drive
Fax delayed sending	✓	Print quality (black, best quality)	600 x 600 DPI
Distinctive ring	✓	Print quality (black, normal quality)	600 DPI
<b>Features</b>		Print margin bottom (A4)	4.2 mm
Maximum duty cycle *	30000 pages per month	Print margin left (A4)	4.2 mm
Digital sender	✗	Print margin right (A4)	4.2 mm
Number of print cartridges *	4	Print margin top (A4)	4.2 mm
All-In-One-multitasking	✓	<b>Input &amp; output capacity</b>	
Total input capacity *	150 sheets	Total input capacity *	150 sheets
Total output capacity *	125 sheets	Total output capacity *	125 sheets
Maximum input capacity for envelopes	Up to 10 envelopes	Maximum input capacity for envelopes	Up to 10 envelopes

Input & output capacity		Other features	
Standard output capacity for envelopes	10 sheets		Up to ImageREt 3600 print quality with HP PCL 6 and Postscript level 3 emulation print drivers; manual duplex and booklet printing; N-up printing; collation, watermarks; accepts a variety of laser paper sizes and types including matte, soft gloss, and high gloss laser photo paper, mono transparencies, cover paper, cardstock, brochure paper, labels, envelopes, and more
Maximum input capacity	150 sheets		
Maximum output capacity	125 sheets		
Paper handling		Printer smart software features	
Paper tray media types *	Bond paper, Card stock, Envelopes, Photo paper, Plain paper, Recycled paper, Transparencies		
Non-ISO print media sizes	Executive		
Recommended media weight	60 - 176 (up - 200 with HP laser cover papers, up - 220 with HP laser glossy photo papers)	Standard output capacity for transparencies	50 sheets
Media weight (tray 1)	60 to 176 g/m <sup>2</sup> (up to 200 g/m <sup>2</sup> with HP laser cover papers, up to 220 g/m <sup>2</sup> with HP laser glossy photo papers)	Driver updates	Latest supported operating systems and print drivers available at: <a href="http://support/cljcm1312mfp">http://support/cljcm1312mfp</a>
Media handling	Sheetfed	Duplex supported media size	A4, A5, A6, B5 (ISO, JIS)
Maximum paper trays	1	Scan file formats	BMP, GIF, JPG, PDF, PNG
Paper handling standard/input	150-sheet input tray, 50-sheet Automatic Document Feeder (ADF)		Intuitive 6.1 cm control panel with colour graphic rotating display, alternating message screen, device/supplies status view, Ready LED, Error LED, Copy controls, Scan controls, Fax controls, Black/Colour controls, Photo controls, Numeric, Setup, Cancel, Help, and Back buttons.
Paper handling standard/output	125-sheet output bin	Control panel	
Paper handling	150-sheet input tray, 50-sheet Automatic Document Feeder (ADF), 125-sheet output bin		
Ports & interfaces			IEC 60950-1 (International), EN 60950-1+A11 (EU), IEC 60825-1+A1+A2, UL/cUL Listed (US/Canada), GS License (Europe), EN 60825-1+A1+A2 (Class 1 Laser/LED Device) GB4943-2001, Low Voltage Directive 2006/95/EC with CE Marking (Europe); other safety approvals as required by individual countries
USB 2.0 ports quantity	1		
Network		Safety	
Wi-Fi *	✗		
Ethernet LAN *	✓		
Supported network protocols (IPv4)	Via built-in Networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw que support only), Web Services Printing; Photo card: CIFS; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv1, HTTP	Upgrade type	Device firmware upgradability via USB direct connection or 10/100 wired Ethernet network connectivity.
		Auto document feeder: supported media types and capacity	sheets: 50 (CM1312nfi)
Performance			Microsoft Windows 2000, Server 2003, XP Home, XP Media Center, XP Professional, XP Professional x64, XP Tablet PC; Certified for Windows Vista; Mac OS X v10.3 or higher; Novell NetWare 3.2, 4.2, 5.x, 6; HP-UX 10.20, 11.x; RED HAT Linux 6.x or higher; SUSE Linux 6.x or higher; Solaris 2.5x, 2.6, 7, 8, 9, 10 (SPARC); AIX 3.2.5 or higher; MPE-iX; Citrix MetaFrame; Terminal Services
Internal memory *	160 MB	Compatible operating systems	
Built-in processor	✓		
Processor family	NXP ColdFire V5x		
Processor frequency	450 MHz	Automatic paper sensor	✗
Minimum system requirements	Microsoft Windows Server 2003: any Pentium II processor or higher, 64 MB RAM, 50 MB available hard disk space, SVGA 800 x 600 monitor with 16-bit colour (print driver, scan driver only); Microsoft Windows 2000, XP Home, XP Professional: any Pentium II processor (Pentium III or higher recommended), 128 MB RAM, 250 MB available hard disk space, SVGA 800 x 600 monitor with 16-bit colour, Internet Explorer 5.5 or higher (full install); 1 GHz processor, 512 MB RAM (Windows Vista), check user guide for minimum hard drive space); CD-ROM drive, USB port	Downloadable software	Installer, print drivers, HP Send Fax, HP Scan software, HP Toolbox for management and support, Readiris PRO text recognition software, HP Software Update, HP Web Jetadmin, Enterprise Installer
		Functions	Print, copy, scan, black/white fax
		Maximum scan area (imperial)	21.6 cm (8.5")
		Package dimensions (W x D x H)	599.4 x 599.4 x 589.3 mm (23.6 x 23.6 x 23.2")
		Pallet dimensions (W x D x H) (imperial)	1199.9 x 599.9 x 1927.9 mm (47.2 x 23.6 x 75.9")
		Pallet weight (imperial)	196.9 kg (434 lbs)
Design		Weight (imperial)	Weight varies as per configuration
Product colour *	Black, Grey	Size (imperial)	54.5 lb
Market positioning *	Business	Acoustic power emissions (active, print, copy or scan)	49.8 cm (19.6")
			64 dB

Power		Other features	
Power consumption (average operating)	21 W	Acoustic power emissions (ready)	Inaudible
<b>System requirements</b>		Acoustic pressure emissions bystander (active, print, copy or scan)	50 dB(A) 47 dB(A)
Windows operating systems supported	Windows 2000, Windows Vista, Windows XP	Acoustic pressure emissions bystander (ready)	Inaudible
Mac operating systems supported	Mac OS X 10.3 Panther, Mac OS X 10.4 Tiger, Mac OS X 10.5 Leopard, Mac OS X 10.6 Snow Leopard, Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks	Auto fax reduction supported	✓
Linux operating systems supported	✓	Dimension note (imperial)	Weight varies as per configuration
Server operating systems supported	Windows Server 2003	Dimension note (metric)	Weight varies as per configuration
<b>Operational conditions</b>		Duplex binding	✗
Operating relative humidity (H-H)	10 - 80%	First page out (black&white, A4, ready)	25.5 s
Recommended operating temperature range (T-T)	20 - 27 °C	First page out (black&white, letter, ready)	25.5 s
Storage temperature (T-T)	-20 - 40 °C	Handset	✗
Operating temperature (T-T)	15 - 32.5 °C	Junk barrier supported	✗
		Maximum scan area (ADF) (imperial)	215.9 x 355.6 mm (8.5 x 14")
		Maximum scan area (ADF)	216 x 297 mm
		Media sizes supported (imperial)	Letter, legal, executive, envelopes (No. 10, Monarch), postcard
		Minimum scan area (Auto Document Feeder)	101.6 x 152.4 mm (4 x 6")
		Minimum scan area (ADF)	102 x 152 mm
		Minimum scan area	53.3 x 71.1 mm (2.1 x 2.8")
		Multi feed detection	✗
		Package weight (imperial)	35.3 kg (77.9 lbs)
		Product dimensions optional (metric)	497 x 490 x 485 mm
		SureSupply connection type	Direct and Network
		Typical electricity consumption (TEC) number	1.597 kWh/Week
		UNSPSC-code	43212110
		Security management description	Password protected via: Toolbox, EWS, and WJA; SNMPv1 (community name)
		All-in-one functions	Copy, Fax, Scan
		Colour all-in-one functions	Copy, Fax, Print, Scan
		Package dimensions (WxDxH)	600 x 600 x 589 mm
		Media size (tray 1)	A4, A5, B5, A6 (ISO, JIS), 76 x 127 to 216 x 356 mm
		Electromagnetic compatibility	CISPR 22: 2005/EN 55022: 2006 Class B, EN 61000-3-2: 2000+A2, EN 61000-3-3: 1995+A1, EN 55024: 1998+A1+A2, FCC Title 47 CFR, Part 15 Class B (USA), ICES-003, Issue 4, (Canada), GB9254-1998, EMC Directive 2004/108/EC with CE Marking (Europe), other EMC approvals as required by individual countries



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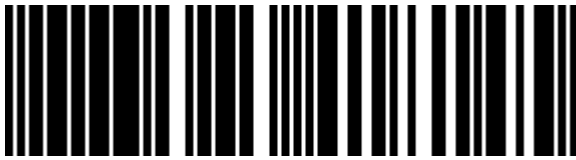
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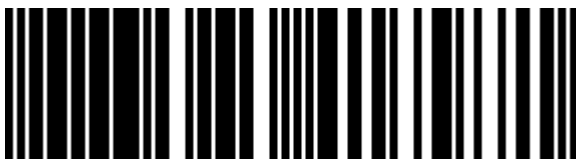
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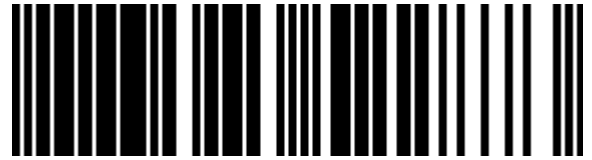
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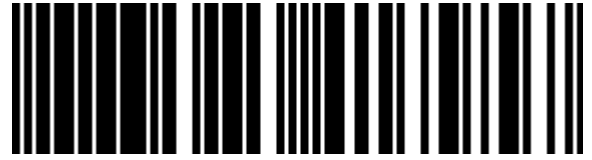
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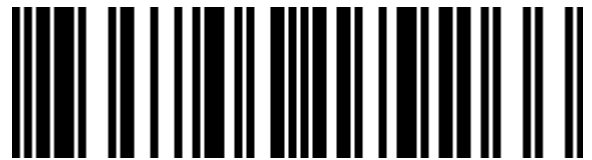
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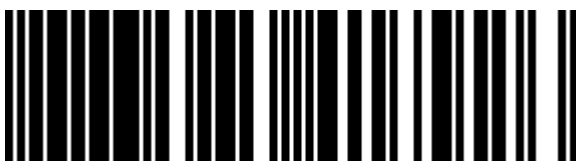
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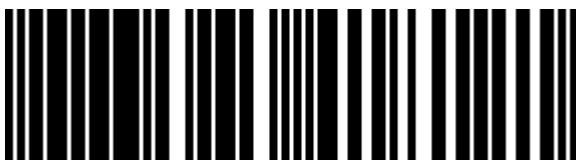
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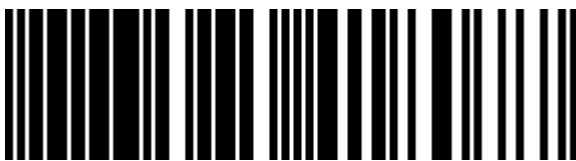
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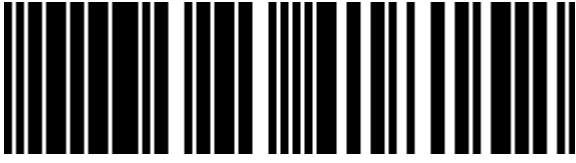
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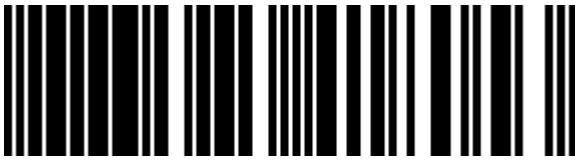
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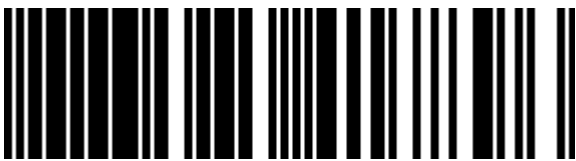
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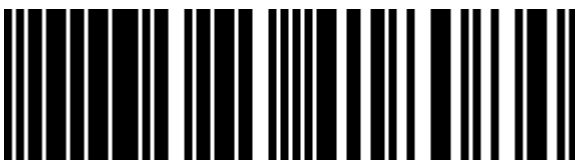
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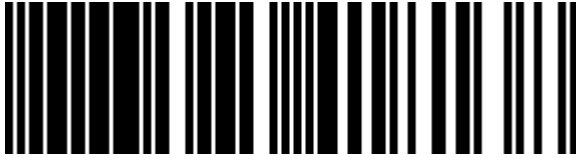
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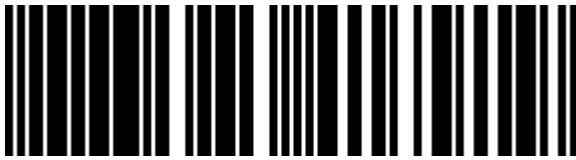
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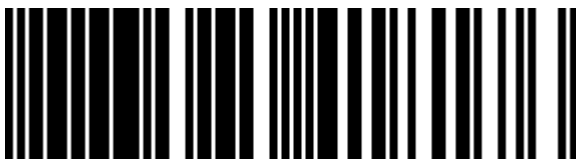
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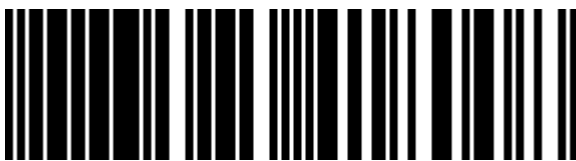
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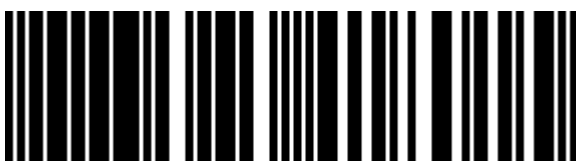
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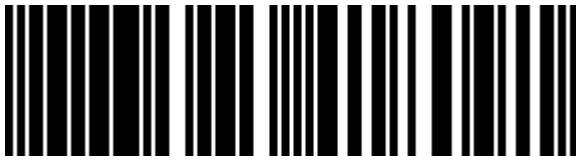
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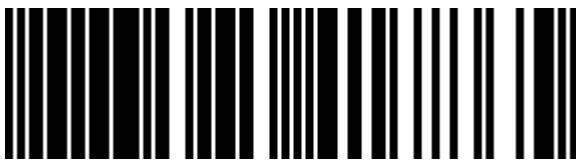
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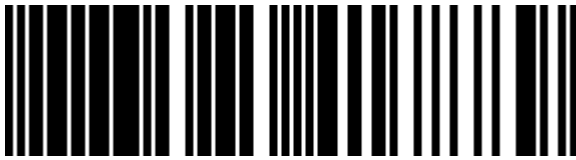
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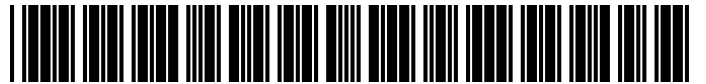
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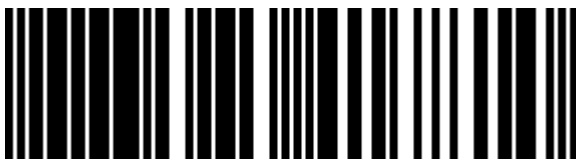
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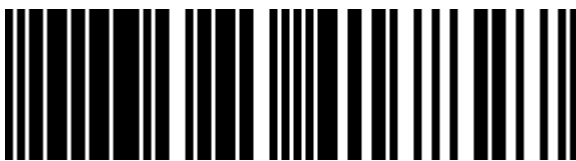
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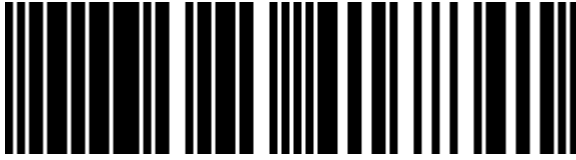
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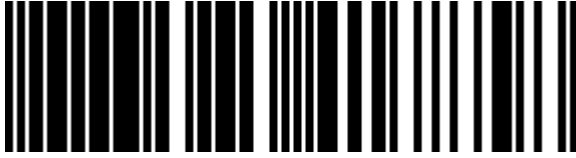
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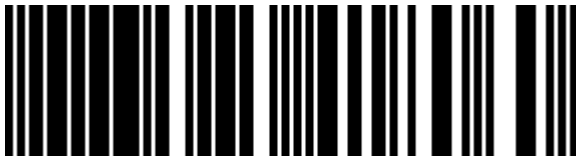
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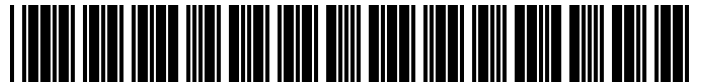
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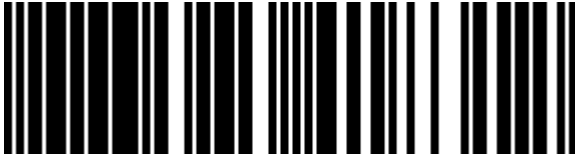
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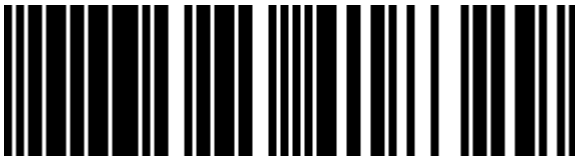
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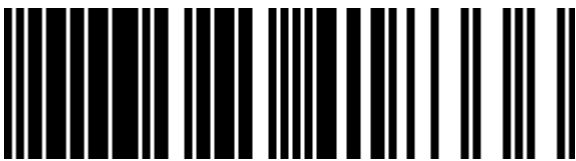
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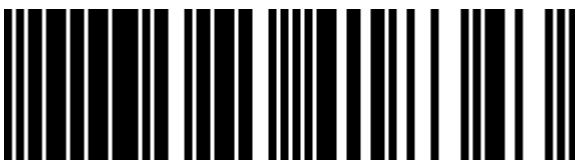
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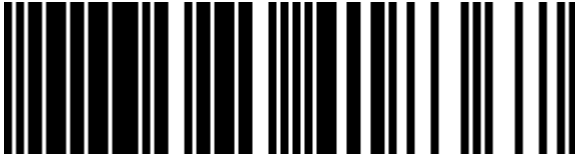
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