
QMS[®] magicolor[®] 2 Print System Reference

1800484-001B

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1

Introduction

In This Chapter . . .

- “Introduction” on page 1-2
- “About This Manual” on page 1-2

Introduction

This manual provides detailed instructions and technical information for your QMS *magicolor* 2 Print System. Use this guide in conjunction with your other printer documentation.

This chapter gives you a brief overview of this manual.

About This Manual


This manual contains printer configuration and reference information. It is divided into the following sections:

1	Introduction	Provides an overview of the manual.
2	Print Media	Lists print media sizes, margins, and imageable areas and provides media storage information.
3	Fonts, Typefaces, and Symbol Sets	Discusses typefaces and fonts, typographic terms, displays the printer's typefaces, and provides some page design tips.
4	Printer Configuration	Explains the methods of configuring the printer, demonstrates how to use the printer control panel, and provides a detailed discussion of the configuration menu.
5	Additional Technical Information	Discusses Crown accounting, ESP and SIO, communication modes, memory, end job mode, IEEE 1284 bidirectional parallel interface modes, PS Protocol, and HP-GL color encoding.

A	QMS Customer Support	Provides world-wide product sales and support telephone numbers and describes how to communicate with QMS through CompuServe, the Internet, and Q-FAX.
B	Technical Specifications	Provides technical specifications for the printer and lists available supplies and replacement parts.
C	Document Option Commands	Lists printer-supported Document Option Commands (DOCs), provides updated HP PCL 5e terminology, and discusses updated DOCs.
D	Notices	Lists manual and legal notices.
E	Configuration Menu	Provides a view of the printer's configuration menu.


Typographic Conventions

The following typographic conventions are used in this manual:

Mixed-Case Courier	Text you type, and messages and information displayed on the screen
<i>Mixed-Case</i> <i>Italic</i> Courier	Variable text you type; replace the italicized word(s) with information specific to your printer or computer
UPPERCASE COURIER	Information displayed in the printer message window
lowercase bold	PostScript operators and DOS commands
<i>lowercase italic</i>	Variable information in text
UPPERCASE	File and utility names
↵	Press the Enter key (PC) or Return key (Macintosh)
^	Press and hold down the Ctrl key (PC)
	In Adobe Acrobat PDF versions of the manual, click to play a QuickTime video clip of the procedure described in the text.

» **Note:** *Notes contain tips, extra information, or important information that deserves emphasis or reiteration.*

▲ **Caution:** *Cautions present information that you need to know to avoid equipment damage, process failure, or extreme annoyance.*

 **WARNING!** *Warnings indicate the possibility of personal injury if a specific procedure is not performed exactly as described in the manual.*

ACHTUNG! *Bitte halten Sie sich exakt an die im Handbuch beschriebene Vorgehensweise, da sonst Verletzungsgefahr bestehen könnte.*



2

Print Media

In This Chapter . . .

- “Introduction” on page 2-2
- “Media Input” on page 2-2
- “Media Sizes and Imageable Areas” on page 2-3
- “Media Types and Weights” on page 2-6
- “Storing Media” on page 2-8

Introduction

This chapter lists the supported media sizes and imageable areas, and provides information on selecting and storing media.

Media Input

Cassette	Approximate Capacity	Location
Letter/A4	250 sheets of 20 lb (75 g/m ²) paper	Upper or optional lower feeder
Universal	50 transparencies	
	15 envelopes	Upper

Media Sizes and Imageable Areas

Your printer supports full-color printing on several media sizes. Each media size has a certain imageable area, the maximum area on which the printer can print clearly and without distortion. This area is subject to both hardware limits (the physical media size and the margins required by the printer) and software constraints (the amount of memory available for the full-page frame buffer).

» **Note:** *All media is fed in the portrait (short edge first) orientation.*

Media	Media Size		Imageable Area		Input Source/ Location
	Inches	Millimeters	Inches	Millimeters	
A4	8.2x11.7	210.0x297.0	7.86x11.29	199.81x286.77	L, U
A5	5.8x8.3	148.0x210.0	5.41x7.86	137.50x199.77	LU, UU
B5 (ISO)	6.9x9.8	176.0x250.0	6.52x9.44	165.61x239.82	L, U
B5 (JIS)	7.2x10.1	182.0x257.0	6.76x9.71	171.70x246.80	L, U
Com 10	4.1x9.5	105.0x241.3	3.72x9.15	94.49x232.30	LU, UU
DL Envelope	4.3x8.7	110.0x220.0	3.92x8.31	99.57x211.00	LU, UU
Executive	7.3x10.5	184.0x267.0	6.84x10.10	173.73x256.54	L, U
Folio	8.5x13.0	215.9x330.2	8.09x12.60	205.57x320.04	U
Foolscap	8.0x13.0	203.2x330.2	7.60x12.60	193.04x320.04	U
Legal	8.5x14.0	215.9x355.6	8.09x13.60	205.57x345.44	U
Letter	8.5x11.0	215.9x279.4	8.09x10.60	205.57x269.24	L, U
SP Folio	8.5x12.4	215.9x315.0	8.09x12.00	205.57x304.84	U
Statement	5.5x8.5	139.7x215.9	5.09x8.10	129.37x205.87	L, U
UK Quarto	8.0x10.0	203.2x254.0	7.60x9.60	193.04x243.84	L, U

Input Source/Location:

L=Letter/A4 cassette (upper and optional lower input feeder)

LU=Letter/A4 cassette (upper only)

U=Universal cassette (upper and optional lower input feeder)

UU=Universal cassette (upper only)

Media Sizes and Imageable Areas

Working Within the Imageable Area

The imageable area for all media sizes is the page size minus 1.97"/5 cm from the top, left, and right edges, and the page size minus 1.57"/4 cm from the bottom edge. In other words, the non-printable areas and non-guaranteed print areas are identical for all media sizes.

- » **Note:** *The non-guaranteed print areas are areas on which you can print, but image quality in these areas may be less than perfect.*

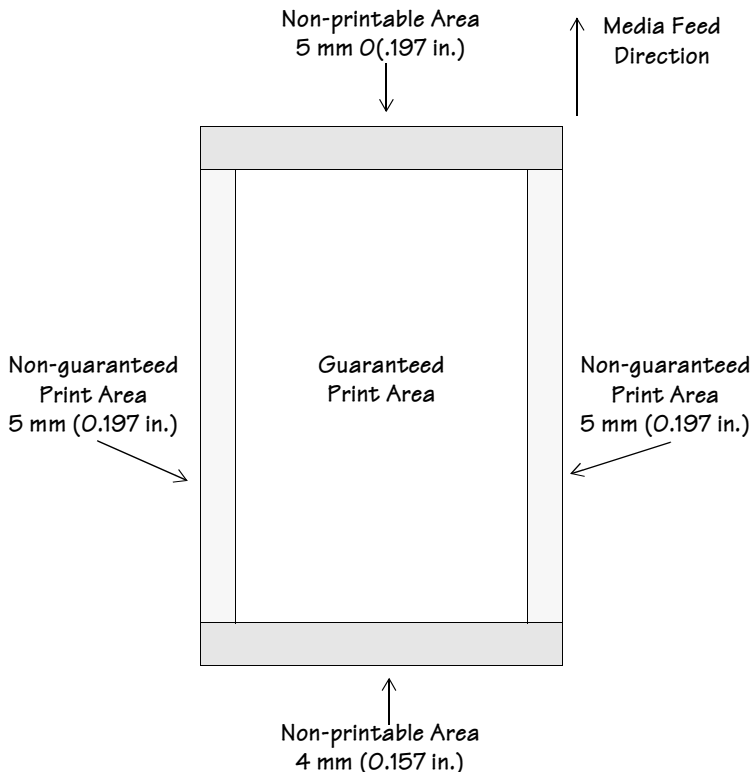


Image Alignment

If for any reason, you need to change the image alignment, you can do so in several different ways:

- Adjust the margins or page size through your application.
- Use the printer's control panel (Administration/Engine/Image Alignment menu).
- Use the PostScript **translate** and **scale** operators to reduce image size and change its placement on the page.

Page Margins

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page, use those sizes given for the imageable area for optimum results.

Media Size versus Cassette Size

Ensure that the media size matches the cassette size (for example, letter/A4 media must be loaded only when the cassette is set to letter/A4 size). Since the cassette sends a media size signal to the printer controller, using a wrong size media could cause a media jam, incorrect positioning of the image, or a clipped image. Also, see chapter 3, "Advanced Printing Features," in the *Operation* manual for information on the amount of memory needed to print on each media size.

Media Types and Weights

Paper

Type

- Any standard or recycled office paper suitable for plain-paper laser printers, such as
 - Xerox 4024
 - Hammermill Laser Print
 - Letterhead/memo paper
 - Thick stock
- » **Note:** *We do not recommend using perforated or 3-hole punched paper.*

Weight

- Long-grain plain paper, 16–24 lb (60–90 g/m²)
 - Long-grain thick stock, up to 60 lb cover/90 lb index (163 g/m²)
- » **Note:** *You should test any thick stock to ensure that its performance is acceptable.*

Envelopes

Type

- Use common office envelopes with diagonal joints, sharp folds and edges, and ordinary gummed flaps, such as
 - Commercial #10: SPHINX
 - International DL: Auto Fil #1914 (white)
- Envelopes may not have fasteners, clasps, transparent windows, peel-off strips for sealing, or material that will melt, vaporize, offset, discolor, or emit dangerous fumes at the fusing temperature (200° C/392° F). These items will seriously damage your printer.

Transparencies

Type

- Use any transparencies meeting normal photocopier standards and that can withstand the fusing temperature (200° C/392° F). We recommend
 - Xerox 3R3117
 - 3M CG3700
- Use only transparency sizes letter and A4.

Weight

- Transparencies 24–41.75 lb (90–157 g/m²)

Labels

Type

- Use only labels recommended for laser printers, such as
 - Avery 5260
- Adhesive label stock should have pressure-sensitive (peel and stick) adhesive backing.
- Use only label stock in sizes letter or A4.
- A label consists of a face sheet (the printing surface), adhesive, and a carrier sheet.
 - Face sheet must adhere to the plain paper specifications listed on page 2-6.
 - The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface.
 - The adhesive and carrier sheet must withstand the fusing temperature (200° C/392° F).

Weight

- Labels 24–42 lb (90–157 g/m²)

Storing Media

How you store paper and other media can make a big difference in print quality and printer operation. Improperly stored media increases the chance of jams during printing and can drastically affect the appearance of your work. Keep media in good condition by storing it

- In its wrapper
- On a flat surface
- In a closed cabinet
- In a cool, dry area



3

Fonts, Typefaces, and Symbol Sets

In This Chapter . . .

- “Introduction” on page 3-2
- “About Fonts and Typefaces” on page 3-2
- “Resident Fonts, Typefaces, and Symbol Sets” on page 3-7

Introduction

This chapter defines common terms used in the description of fonts and typefaces, and displays the printer's resident typefaces.

About Fonts and Typefaces

Many of the terms and phrases used in desktop publishing are derived from the language of professional printers and typesetters. This section explains common words and phrases used when discussing typefaces.

<p style="text-align: center;">Typeface</p> <p>A named design of a set of printed characters, such as Times, that has a specified obliqueness (degree of slant) and stroke weight (thickness of stroke). It does not define a particular size.</p>	<p style="text-align: center;">Typeface Family</p> <p>A group of similar typefaces. For example, the Times typeface family consists of four typefaces: Times Roman, Times Bold, <i>Times Italic</i>, and Times Bold Italic.</p>
<p style="text-align: center;">Font</p> <p>A set of characters of the same typeface (such as Times), style (such as <i>italic</i>), stroke weight (such as bold), and point size (such as 10). Although you hear the term "font" used more generally, as if referring to a typeface, it's really a subset of a typeface.</p>	<p style="text-align: center;">Character Set</p> <p>A collection of symbols designed for various printing applications. Many character sets are composed of the letters (uppercase and lowercase A-Z), digits (0-9), and any symbol (such as blank space, dollar sign, and ampersand). Other character sets are composed entirely of symbols.</p>

Typeface Classification

One way of classifying the different typefaces is to group them into the following categories:

Serif

A serif is a decorative line or tail on the ends of the strokes of a letter. Serifs, usually on the lower half of a letter, have also been referred to as feet or curlicues. Courier, ITC Bookman, New Century Schoolbook, Palatino, and Times are serif typefaces. In the example shown, all the letters except “e” and “o” have serifs.

Times Roman

Sans Serif

Sans serif (“sans” is French for “without”) indicates a typeface without any of these small tails. A sans serif typeface is decorative by the shape and styling of its letters but has less detail than a serif typeface. Helvetica, Helvetica Condensed, Helvetica Narrow, and ITC Avant Garde Gothic are all sans serif typefaces. In the example shown above, the slight curving at the bottom of the letters “t” and “a” is not a serif. It is part of the line forming the letter rather than a decorative line added on.

Helvetica

Script

Script typefaces simulate handwriting or brush lettering. Each letter is connected visually, if not physically. ITC Zapf Chancery is a script typeface.

Zapf Chancery

Pi or Symbol

Pi or symbol typefaces are collections of assorted special-purpose characters (for example, decorative, graphic, math, or monetary charac-

Σψμβολ

About Fonts and Typefaces

ters). They are especially useful for highlighting items in lists, providing graphics, and displaying symbols that might otherwise have to be drawn in by hand. Many typefaces today include a complement of the more commonly used pi characters. Symbol and ITC Zapf Dingbats are pi typefaces.

Typography Terms

Monospacing

The terms “monospaced” and “fixed-pitch” refer to a typeface whose characters all have uniform and equal spacing. These typefaces are useful for spreadsheets and other documents with columnar data. Monospacing is the opposite of proportional spacing.

Proportional Spacing

The term “proportionally spaced” refers to a typeface in which the width of each character varies. For example, the letter “i” is thinner than the letter “m” and therefore takes up less space.



The image shows the word "alphabet" in two different fonts. The top line is in a monospaced font (Courier), where each character has the same width, resulting in uneven spacing between characters. The bottom line is in a proportional font (Times), where the width of each character varies according to its shape, resulting in more uniform and aesthetically pleasing spacing.

Proportional spacing saves page space and is easier on the eye. This manual’s text uses the Helvetica font, a proportionally-spaced typeface. Because proportionally spaced typefaces place each character according to its individual size, they increase legibility and readability. This example shows the difference between a monospaced typeface (Courier) and a proportionally spaced typeface (Times).

Bitmapped Font

A bitmapped font is one in which each character is represented by a set of dot patterns. Each font size requires a different set of dot patterns.



The image shows the word "Dots" in a bitmapped font, where each character is constructed from a grid of dots. The letters are blocky and have a pixelated appearance.

Scalable Font

A scalable font is one in which each character's dot pattern (bitmap) is generated from a mathematical representation (or outline)



of the character. Scalable fonts eliminate the need to store different font sizes.

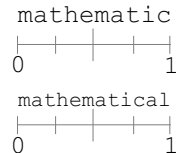
Point Size

Point size refers to the height of a proportionally spaced typeface. A point is a unit of measure approximately equal to $\frac{1}{72}$ ". The larger the point size, the larger the letter. The example shows characters in 8, 10, 12, 24, and 36 point sizes.



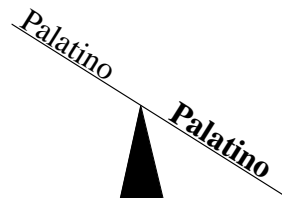
Pitch

Pitch refers to the number of characters per horizontal inch (cpi) in a monospaced typeface. Therefore, the larger the pitch, the smaller the letter. For example, a ten-pitch typeface prints ten characters per inch (or 10 cpi) while a twelve-pitch typeface prints twelve characters per inch (or 12 cpi). The example shows ten-pitch and twelve-pitch Courier.



Stroke Weight

Stroke weight (light/medium/bold) is the width (thickness), of the lines (strokes) that make up a character. The example at left shows the medium and bold weights of Palatino.



Resident Fonts, Typefaces, and Symbol Sets

Resident PostScript Fonts

Your printer has 42 resident PostScript fonts. Check with your QMS vendor for availability of additional fonts for your printer. See appendix A, "QMS Customer Support," for a list of locations and telephone numbers.

Your printer supports Type 1 and Type 3 downloaded PostScript fonts. PostScript supports TrueType downloaded fonts only in Type 42 format. All of these typeface families are authentic: they are licensed, they carry the true name, and they have multilingual character sets. An example of each font is given in the following lists.

Font	Sans Serif	Serif	Script	Pi/ Symbol	Other
ITC Avant Garde	✓				
<i>ITC Avant Garde Oblique</i>	✓				
ITC Avant Garde Demi	✓				
<i>ITC Avant Garde Demi Oblique</i>	✓				
ITC Bookman Light		✓			
<i>ITC Bookman Light Italic</i>		✓			
ITC Bookman Demi		✓			
<i>ITC Bookman Demi Italic</i>		✓			
Courier		✓			
<i>Courier Oblique</i>		✓			
Courier Bold		✓			
<i>Courier Bold Oblique</i>		✓			
Helvetica	✓				
<i>Helvetica Oblique</i>	✓				
Helvetica Bold	✓				
<i>Helvetica Bold Oblique</i>	✓				

Resident Fonts, Typefaces, and Symbol Sets

Font	Sans Serif	Serif	Script	Pi/ Symbol	Other
Helvetica Condensed <i>Helvetica Condensed Oblique</i> Helvetica Condensed Bold <i>Helvetica Condensed Bold Oblique</i>	✓ ✓ ✓ ✓				
Helvetica Narrow <i>Helvetica Narrow Oblique</i> Helvetica Narrow Bold <i>Helvetica Narrow Bold Oblique</i>	✓ ✓ ✓ ✓				
Letter Gothic ML Letter Gothic US	✓ ✓				
New Century Schoolbook <i>New Century Schoolbook Italic</i> New Century Schoolbook Bold <i>New Century Schoolbook Bold Italic</i>		✓ ✓ ✓ ✓			
OCR-B					✓
Palatino <i>Palatino Italic</i> Palatino Bold <i>Palatino Bold Italic</i>		✓ ✓ ✓ ✓			
Σψμβολ (Symbol)				✓	
Times Roman <i>Times Roman Italic</i> Times Roman Bold <i>Times Roman Bold Italic</i>		✓ ✓ ✓ ✓			
<i>ITC Zapf Chancery Medium Italic</i>			✓		
☞☛■▣▤▥▦▧ (ITC Zapf Dingbats)				✓	

Resident HP PCL 5c Fonts

The QMS *magicolor* 2 Print System has 24 resident HP PCL 5c fonts, allowing it to emulate the HP PaintJet XL300. All fonts can be automatically rotated to landscape orientation.

- » **Note:** *You can use any of the Hewlett-Packard XL series of drivers with this printer; however, we recommend the XL300 driver due to the higher resolution. You can download Hewlett-Packard drivers from the Hewlett-Packard website at <http://www.hp.com>. We recommend that if you print using a Hewlett-Packard printer driver, you disable P/L commands within the driver settings.*

Font	# of Symbol Sets	Scalable/Bitmap	Pi/Symbol	Sans Serif	Serif
Courier Medium	5	S			✓
Courier Italic Medium	32	S			✓
Courier Bold]	32	A			✓
Courier Italic Bold	32	S			✓
Line Printer Legal Medium 8.5 pt	25	B		✓	
Line Printer PC-850 Medium 8.5 pt	25	B		✓	
Line Printer PC-8 D/N Medium 8.5 pt	25	B		✓	
Line Printer PC-8 Medium 8.5 pt	25	B		✓	
Line Printer Roman-8 Medium 8.5 pt	25	B		✓	
Line Printer ECMA-94 Latin (ISO8859/1) 8.5 pt	25	B		✓	
Times Roman Medium	32	S			✓
Times Roman Italic Medium	32	S			✓
Times Roman Bold	32	S			✓
Times Roman Italic Bold	32	S			✓
Univers Medium	32	S		✓	
Univers Italic Medium	32	S		✓	
Univers Bold	32	S		✓	
Univers Italic Bold	32	S		✓	
Univers Condensed Medium	32	S		✓	
Univers Condensed Italic Medium	32	S		✓	
Univers Condensed Bold	32	S		✓	
Univers Condensed Italic Bold	32	S		✓	

Resident Fonts, Typefaces, and Symbol Sets

Font	# of Symbol Sets	Scalable/ Bitmap	Pi/ Symbol	Sans Serif	Serif
Wingdings	1	S	✓		
ITC Zapf Dingbats	32	S	✓		

PCL 5c Symbol Sets

This table lists all of the PCL 5c symbol sets that are supported on the QMS *magicolor* 2 Print System:

Desktop	PC - 850
ISO - 4 (UK)	PC - 852 (Latin 2)
ISO - 6 (ASCII)	PC - 8tk
ISO - 11 (SWED)	PC8 - US
ISO - 15 (ITAL)	PC8 - DN
ISO - 17 (SPAN)	PI - font
ISO - 21 (GERM)	PS - Math
ISO - 60 (NORW)	PS - Text
ISO - 69 (FREN)	Roman - 8
ISO - Latin - 1	Ventura - Intl
ISO - Latin - 2	Ventura - Math
ISO - Latin - 5	Ventura - US
Legal	Windows 3.0 (Latin 7)
MC - Text	Windows 3.1-1 (Latin 1)
Math - 8	Windows 3.1-2 (Latin 2)
Microsoft - Pub	Windows 3.1-5 (Latin 5)

Resident HP-GL Fonts

Your QMS *magicolor 2* Print System has the following 40 resident scalable HP-GL fonts in both fixed- and variable-spaced versions.

Set 0—Fixed space ANSI ASCII	Set 30—Fixed space ISO Swedish
Set 1—Fixed space 9825 Character Set	Set 31—Fixed space ISO Swedish for names
Set 2—Fixed space French/German	Set 32—Fixed space ISO Norway version 1
Set 3—Fixed space Scandinavian	Set 33—Fixed space ISO German
Set 4—Fixed space Spanish/Latin American	Set 34—Fixed space French
Set 5—Fixed space Special Symbols	Set 35—Fixed space United Kingdom
Set 6—Fixed space JIS ASCII	Set 36—Fixed space Italian
Set 7—Fixed space Roman extensions	Set 37—Fixed space Spanish
Set 8—Fixed space Katakana	Set 38—Fixed space Portuguese
Set 9—Fixed space ISO IRV	Set 39—Fixed space Norway version 2
Set 10—Variable space ANSI ASCII	Set 40—Variable space ISO Swedish
Set 11—Variable space 9825 Character set	Set 41—Variable space ISO Swedish for names
Set 12—Variable space French/German	Set 42—Variable space ISO Norway version 1
Set 13—Variable space Scandinavian	Set 43—Variable space German
Set 14—Variable space Spanish/Latin American	Set 44—Variable space French
Set 15—Variable space Special symbols	Set 45—Variable space United Kingdom
Set 16—Variable space ASCII	Set 46—Variable space Italian
Set 17—Variable space Roman extensions	Set 47—Variable space Spanish
Set 18—Variable space Katakana	Set 48—Variable space Portuguese
Set 19—Variable space ISO IRV	Set 49—Variable space Norway ver. 2



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Printer Configuration

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