



KONICA MINOLTA

The essentials of imaging



**magicolor 1680MF**

**magicolor 1690MF**

Compact A4 colour laser all-in-ones

All-in-one 5/20 ppm

magicolor 1680MF and 1690MF



# Compact all-in-one A4 colour laser printers

The magicolor 1680MF and magicolor 1690MF are the ideal compact colour all-in-ones for a small office network or a single user. Much more affordable than separate devices, the four pre-configured models are sure to meet all your printing requirements in a single space-saving system. Both models are Windows and Mac compatible and with their low operating noise and small footprint they make ideal desktop devices.

Configuration	magicolor 1680MF	magicolor 1690MF	magicolor 1690MF-d	magicolor 1690MF-dt
Print/Copy/Scan	x	x	x	x
Fax		x	x	x
Network capability		x	x	x
Automatic document feeder		x	x	x
Duplex			x	x
200 sheet paper feeder	x	x	x	x
500 sheet lower paper feeder				x

Easy to use and flexible, these all-in-ones are the ideal choice to produce and manage the diverse document and communication requirements of a small or home office. With their compact size, speed of five colour or 20 black and white pages per minute, and their comfortably low operating noise they are the ideal choice for small networks or single users. Four pre-configured models cater for every combination of requirements:

- For printing, copying and scanning choose the magicolor 1680MF.
- The magicolor 1690MF combines network printing, copying and scanning with a fax. It also features a standard Automatic Document Feeder (ADF) for effortless handling of originals.
- All this plus double-sided printing is offered by the magicolor 1690MF-d.
- The magicolor 1690MF-dt offers a comprehensive solution: network colour printer, copier, scanner and fax with double-sided printing, plus an extended paper capacity for high volume print jobs.



magicolor 1680MF  
standard



magicolor 1690MF  
standard



magicolor 1690MF-d  
with duplex unit



magicolor 1690MF-dt  
with duplex unit and  
lower paper feeder

## → Completely multifunctional

Whether you want to print, copy, scan or fax, you will find it easier to accomplish with the magicolor 1680MF and magicolor 1690MF.

These versatile all-in-ones impress with highly flexible media handling, enabling you to print what you require. They process paper weights between 60 and 209 gsm, easily handling thick paper, labels, envelopes, and recycled paper. You can create your own presentations, posters, signs and point of sale materials, print double-sided leaflets, and for bigger print jobs extend the paper capacity with a lower paper feeder to a generous 700 sheets. Use the **poster function** for special effects, enlarging images onto 4, 9, 16 or even 25 A4 sheets. For reducing paper, you can combine up to 16 pages onto a single A4 sheet.

Different copy modes on the magicolor 1680MF and magicolor 1690MF ensure optimal quality and include text-only, image-only and text-with-image modes. Two separate start buttons allow economical instant copying in colour or black and white.

Both the magicolor 1680MF and 1690MF offer a convenient scan-to-PC function, allowing you to scan images and save them to any directory on the hard disk of your computer. The LinkMagic software also provides easy access to the most frequently used scanning applications. With its full network compatibility the magicolor 1690MF enables scanning documents directly to e-mail or a shared folder on your PC.

The magicolor 1690MF brings you the convenience of communication by fax. It has a transmission speed of just 3 seconds per page, with 220 speed dials, and it lets you define up to 20 groups with a maximum 50 stations in each group.

## → Convenient to use

The magicolor 1680MF and magicolor 1690MF are designed with ease of use in mind. With their compact design and small footprint they are effortlessly integrated into any office setting with limited space. Both feature a large, easy-to-read display and convenient access from the front for straightforward replacing of consumables. The Automatic Document Feeder on the magicolor 1690MF makes copying or faxing multi-page documents fast and smooth.

## → Quality and economy

Whether printing in colour or black and white, the magicolor 1680MF and magicolor 1690MF impress with their brilliant image quality. This is achieved with Konica Minolta's Simitri® HD polymerised toner, which produces vibrant colour and sharp definition in even the tiniest detail. At the same time the Toner Save Mode allows you to reduce toner consumption and save costs when printing drafts or internal documents.

## → Clean Planet programme for the environment

Konica Minolta takes the responsibility to the environment seriously, and strives to reduce the impact of its products at each stage of the product lifecycle. The Clean Planet programme gives you the opportunity to recycle your used toner cartridges for free. Cartridges are recycled efficiently, preserving precious resources. Returning the cartridges is quick, easy and completely free for you.

magicolor 1680MF 

magicolor 1690MF 





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## Simitri HD

High Definition Polymerised Toner



## Technical specifications

### Print process

**Print method**  
Tandem full colour A4 laser printer

**Print speed A4**  
Up to 20 ppm monochrome  
Up to 5 ppm colour

**First page out**  
14 seconds monochrome  
23 seconds colour

**Warm-up time**  
Average 30 seconds

**Max. resolution**  
1,200 dpi x 600 dpi x 1 bit

### Print functions

Autozoom, N-up, poster mode, booklet, watermark, quality adjustment, overlay, collating

### Copy process

**Copy speed**  
Up to 20 cpm monochrome  
Up to 5 cpm colour

**First copy out**  
23 seconds monochrome  
52 seconds colour

**Copy resolution**  
600 dpi x 600 dpi x 1 bit

**Copies**  
1–99

**Zoom range**  
50–200% (by 1% step)

**Copy functions**  
**magicolor 1680MF:** ID card copy  
**magicolor 1690MF:** ID card copy, 2in1, collate, duplex copy

### Scan process

**Scan technology**  
CIS image sensor, flat bed

**Scan speed**  
Up to 20 opm monochrome  
Up to 3.3 opm colour

**Resolution**  
600 x 600 dpi

**Scan size**  
Max. A4, custom formats

**Scan Modes**  
**magicolor 1680MF:**  
TWAIN scan  
**Windows WIA scan**

### magicolor 1690MF:

Scan-to-Email  
Scan-to-FTP  
Scan-to-USB  
Scan-to-SMB  
TWAIN scan  
Windows WIA scan

**File Formats**  
PDF, TIFF, JPEG

### Fax process\*

Send and receive with internal fax module

### Modem speed

33.6 Kbps V.34

### Transmit speed

3 sec/page (at V.34)

### Fax compression

MH, MR, MMR, JBIG

### Speed dial

220

### Group dial

20 groups  
(max. 50 stations for one group)

### Fax functions

Receipt to e-mail, auto redial, broadcast (maximal 236 destinations), timer transmission, PC-Fax

### Hardware and software capabilities

**Memory**  
**magicolor 1680MF:** 64 MB  
**magicolor 1690MF:** 128 MB

### Interface support

**magicolor 1680MF:**  
USB 2.0 (high-speed)  
**magicolor 1690MF:**  
10-Base-T/100-Base-TX Ethernet, USB 2.0 (high-speed)

### Operating system compatibility

**Windows**  
2000, Server 2003 (32/64), XP (32/64), Vista (32/64)

**Macintosh**  
OSX 10.2 or later

### Paper handling

**Standard paper input magicolor 1680MF, 1690MF & 1690MF-d**  
200 sheet multi manual feed tray

**Standard paper input magicolor 1690MF-dt**  
200 sheet multi manual feed tray  
500 sheet lower paper feeder

### Standard paper output

100 sheet face down output tray

### Optional paper handling

500 sheet lower paper feeder (only for magicolor 1690MF)

### Media sizes supported

A4, A5, B5, letter, legal, envelope C6, envelope DL, custom size 92–216 mm x 184–356 mm

### Duplex sizes supported

A4

### Printable area

Approx. 4 mm from all edges

### Paper weights

Plain paper (60–90 gsm)  
Recycled paper (60–90 gsm)  
Thick paper 1 (91–163 gsm)  
Thick paper 2 (164–209 gsm)

### Print media

Plain paper, recycled paper, envelope, labels, postcard, thick paper, letterhead

### Physical

#### Dimensions (W x D x H in mm)

**magicolor 1680MF:**  
405 mm x 427 mm x 375 mm

**magicolor 1690MF:**  
405 mm x 427 mm x 432 mm

**magicolor 1690MF-d:**  
405 mm x 451 mm x 493 mm

**magicolor 1690MF-dt:**  
405 mm x 565 mm x 548 mm

#### Weight

**magicolor 1680MF:**  
19.2 kg with consumables

**magicolor 1690MF:**  
20.8 kg with consumables

**magicolor 1690MF-d:**  
24 kg with consumables

**magicolor 1690MF-dt:**  
26.3 kg with consumables

#### Electrical

##### Input voltage range

220 ~ 240 V (± 10%)

##### Frequency

50 ~ 60 Hz (± 3%)

##### Power consumption

410 W or less  
(average colour printing)

560 W or less  
(average monochrome printing)

170 W or less  
(stand by)

14 W or less  
(energy save mode)

### Environmental

#### Temperature

10 ~ 35 °C

#### Humidity

15 ~ 85% RH

#### Noise levels

**magicolor 1680MF:**  
50 dB or less printing  
38 dB or less standby

**magicolor 1690MF:**  
49 dB or less printing  
52 dB or less copying  
38 dB or less standby

### Regulatory/Safety conformity

Doc, CE Marking, GS, EMC, WEEE, Energy Star (magicolor 1690MF)

### Consumables

#### Pre-installed

**Toner:**  
Cyan, magenta and yellow toner yield up to 500 pages  
Black toner yield up to 1,000 pages  
Imaging Unit  
(waste toner bottle included):  
Black yield up to 45,000 pages  
Cyan, magenta and yellow yield up to 11,250 pages

#### Replacements

**Toner:**  
Standard: Cyan, magenta and yellow toner yield up to 1,500 pages  
High capacity: Cyan, magenta, yellow and black toner yield up to 2,500 pages  
Imaging unit  
(waste toner bottle included):  
Black yield up to 45,000 pages  
Cyan, magenta and yellow yield up to 11,250 pages

### Maintenance parts

#### Fuser unit

Yield up to 50,000 sheets

#### 2nd transfer unit

Yield up to 50,000 sheets

### Warranty period and conditions

1 year on-site warranty (within EU; local law applies)

\* For magicolor 1690MF

- All specifications relating to paper capacity refer to A4-size paper of 80 gsm quality.
- All specifications relating to printing speeds refer to A4-size paper that is printed in multipage, simplex mode.
- The support and availability of the listed specifications and functionalities varies depending on operating systems, applications, network protocols as well as network and system configurations.
- The stated life expectancy of each consumable is based on specific operating conditions such as page coverage for a particular page size (5% coverage of A4). The actual consumables life will vary depending on the use and other printing variables including page coverage, page size, media type, continuous or intermittent printing, ambient temperature and humidity.
- Some of the product illustrations contain optional accessories.
- Specifications and accessories are based on the information available at the time of printing, and are subject to change without notice.
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