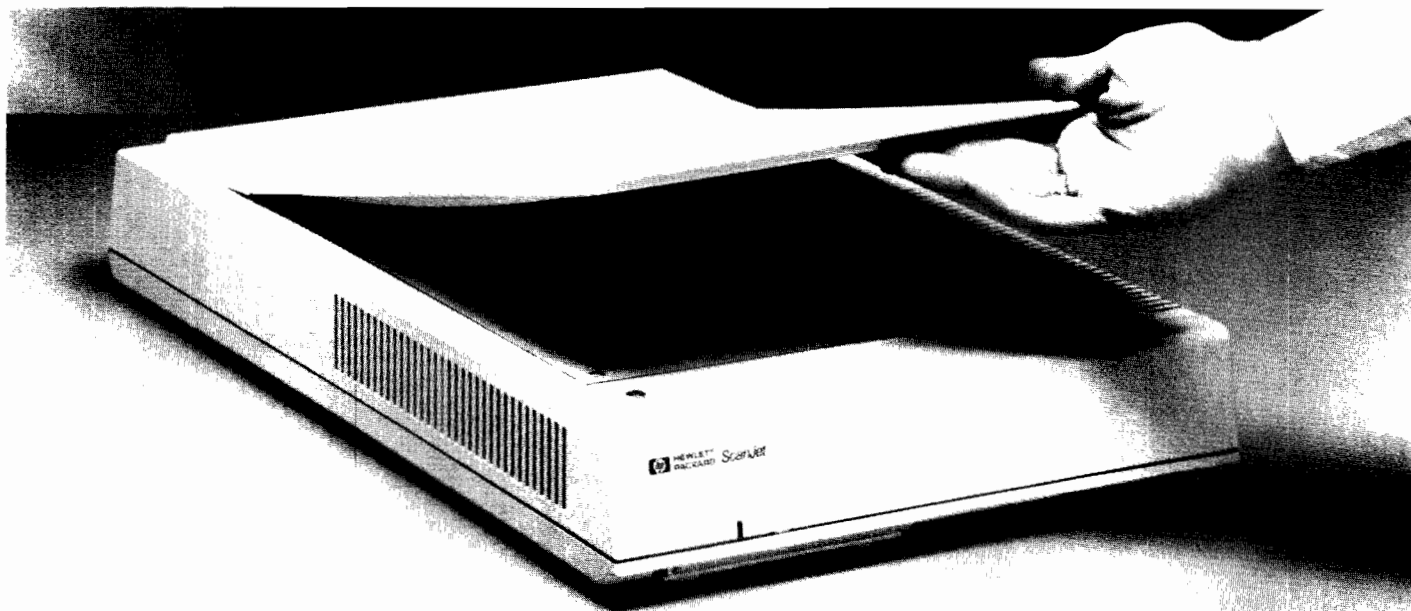


# HEWLETT-PACKARD

## HP 9190A ScanJet Desktop Scanner

\* Technical Data August '87



The Hewlett-Packard ScanJet desktop scanner gives your laser printed documents a new image, improving the quality of your memos, business reports, and newsletters. The ScanJet provides an easy way to include photos, text, line art, and graphics from all types of sources.

### FEATURES and BENEFITS

- **Flat-bed Design**

ScanJet's flat-bed design can handle a wide variety of documents, from a wallet-sized photograph to a full-size, single sheet drawing – even bound reports

- **Automatic Document Feeder**

The optional 20-page document feeder (HP 88190A) allows convenient input of multi-page documents.

- **Scaling/Resolution**

Scanned images can be enlarged or reduced to the size needed. In addition, images can be scanned at exactly the resolution needed to match your printer.

- **IBM Compatibility**

The HP ScanJet desktop scanner is supported on the HP Vectra PC, IBM XT/AT and compatibles. Operation with the above systems requires the ScanJet Interface Kit (HP 88290A).

Hewlett-Packard's Scanning Gallery Software included with the ScanJet Interface Kit (HP 88290A) allows easy scanning, cropping and storage of images for use with a wide range of application software.\* Files are stored and brought to application software via the four industry standard file formats: TIFF, MS Paint, GEM, and PC PaintBrush. Scanning Gallery works under both the MS-DOS® (Ver. 3.1 and above) and MS Windows (Ver. 1.03 and above) operating environments. Additionally, some application packages have built-in support for the HP ScanJet using Scanner Control Language (SCL).

\* See ScanJet Software Solutions for a complete listing of supported applications software (HP Publication 5953-6883).

- **Macintosh Compatibility**

The HP ScanJet desktop scanner is also supported on the Apple Macintosh Plus/SE systems with the ScanJet Macintosh Interface Kit (HP 88390A). The software included provides easy scanning, editing, and enhancement of images. Additionally, extensive support is provided for a variety of popular software packages\* through storage of images in the popular Macintosh DTP file formats of TIFF and MacPaint.

- **Total Desktop Publishing Solution**

When teamed up with the HP LaserJet or LaserJet Series II Printer and the HP Vectra PC, the ScanJet desktop scanner completes the one vendor, total HP Desktop Publishing Solution. This one vendor solution ensures system compatibility and reliable service and support.

**HP Computer Museum**  
**[www.hpmuseum.net](http://www.hpmuseum.net)**

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## Performance Characteristics

- SCANNING SPEED ..... 20.4 sec/300 dpi
- OUTPUT RESOLUTION ..... 38 – 600 dpi, Selectable in 1 dpi increments\*
- OPTICAL RESOLUTION ..... 2550 dots (yielding 300 dpi)
- SCALING ..... 7% to 1578%\*

\* Ranges for included software are as follows:

Host	S/W	Scaling @ 300 dpi	Resolution
IBM	Scanning Gallery	50-200%	75-300 dpi in 1 dpi increments
Macintosh	Scanworks	13-200%	75 or 300 dpi

Extended ranges may be accessible through applications packages using direct scanner control.

## Functional Characteristics

- SCANNER TYPE ..... Flatbed
- SCANNER ELEMENT ..... CCD image sensor
- LIGHT SOURCE ..... Halogen lamp
- INTERFACE ..... Bidirectional Centronics (IBM)  
SCSI (Macintosh)
- MAX. DOCUMENT SIZE (glass) ..... 216 x 297 mm (8.5 x 11.7 in)
- MAX. DOCUMENT SIZE (auto. doc. feeder) ..... 216 x 356 mm (8.5 x 14.0 in)
- MAX. AUTO. DOC. FEEDER CAPACITY ..... ~20 sheets (2 mm)(.08 in)
- MODE SELECTION ..... Binary, dithered, grayscale
- DROP OUT COLOR ..... Yellow
- GRAYSCALE ..... 16 levels (4 bit)

## Environmental Range

- TEMPERATURE
  - Operating ..... 5 to + 35°C (41 to + 95°F)
  - Non-Operating ..... -40 to + 60°C (-40 to + 140°F)
- HUMIDITY
  - Operating ..... 5% – 95% (non-condensing)
  - Non-Operating ..... 5 – 95%
- ALTITUDE
  - Operating ..... 0 – 4572 m (0 – 15,000 ft)
  - Non-Operating ..... 0 – 15,240 m (0 – 50,000 ft)

## Power Requirements

- VOLTAGE
  - Range ..... 90 – 126.5 VAC (220 – 240V)
- FREQUENCY
  - Nominal ..... 60 Hz (50 Hz)
  - Range ..... 48 – 66 Hz
- MAXIMUM POWER CONSUMPTION ..... 120W

## Physical Characteristics

- DIMENSIONS (scanner)
  - Height ..... 83 mm ( 3.3 in)
  - Width ..... 368 mm (14.5 in)
  - Depth ..... 570 mm (22.4 in)
- WEIGHT
  - Net ..... 10.4 kg (22.8 lbs)
  - Shipping ..... 12.7 kg (28.0 lbs)
- DIMENSIONS (automatic document feeder)
  - Depth ..... 503 mm (19.8 in)
  - Width ..... 368 mm (14.5 in)
  - Height ..... 73 mm ( 2.9 in)
- WEIGHT
  - Net ..... 4.3 kg (9.25 lbs)
  - Shipping ..... 5.8 kg (12.7 lbs)

## Ordering Information

- ScanJet Desktop Scanner ..... 9190A\*
- ScanJet Interface Kit for personal computers ..... 88290A
- Automatic Document Feeder ..... 88190A
- ScanJet Macintosh Interface Kit ..... 88390A

### \* ScanJet requires the following interface kits:

- For Vectra, IBM XT/AT ..... 88290A
- For Macintosh ..... 88390A

## Accessories Supplied

- HP 9190A (ScanJet Desktop Scanner)  
Power cord

## Accessories Supplied

### HP 88290A (ScanJet Interface Kit)

Interface board, ScanJet operator's manual, Scanning Gallery user's manual, 5 1/4" software flexible discs (6), Scanner interface cable.

### HP 88390A (ScanJet Macintosh Interface Kit)<sup>1</sup>

SCSI/bidirectional centronics interface converter, ScanJet operator's manual, software user's manual, 3 1/2" software flexible discs, HP parallel interface cabling and power supply.

<sup>1</sup> Required SCSI cabling between Macintosh and Interface Kit not included. See matrix below.

## CABLING REQUIREMENTS

External SCSI Peripheral Configuration	Macintosh SCSI System Cable	Macintosh Peripheral Interface Cable	Macintosh SCSI Cable Terminator
No External SCSI Devices	Required	Not Required	Required
One External SCSI Device	Not Required	Required	Required
Multiple External SCSI Devices	Not Required	Required	Not Required

## Accessories Available

	HP	Apple
Scanner Interface Cable	88290-61600	
Automatic Document Feeder	88190A	
Macintosh Peripheral Interface Cable	92166F	M0207
Macintosh SCSI System Cable	92166G	M0206
Macintosh SCSI Cable Terminator	92166H	M0209

## ScanJet Safety and EMI Compliance

Underwriters Laboratories, Inc.

UL 478: Electronic Data Processing Equipment (EMRT) Fifth Ed.

UL 114: Office Appliances and Business Equipment (QAOT)

Canadian Standards Association

CSA C22.2 #154: Data Processing Equipment

International Electrotechnical Commission: IEC 380 and 435

FCC: Class B Part 15 for computing equipment

VDE: FTZ 1046/84 (VDE Level B)

Questions concerning regulatory agency compliance should be directed to the local Hewlett-Packard Sales and Service Office.

## Warranty and Service

Hewlett-Packard warrants this peripheral/accessory against defects in materials and workmanship for a period of one year from receipt by the end user unless an alternate warranty coverage is selected by the purchaser. Contact your HP Sales Office for details of other warranty options available. For example, it is possible to choose a warranty option which matches that for an entire HP system. If HP receives notice of such defects during the warranty period, HP will either, at its option, repair or replace products which prove to be defective.

Should HP be unable to repair or replace the product within a reasonable amount of time, the customer's alternate remedy shall be a refund of the purchase price upon return of the product.

The above warranty shall not apply to defects resulting from improper or inadequate maintenance by the customer, customer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper site preparation and maintenance.

The selection and use of media, supplies and consumables is the customer's responsibility. Hewlett-Packard reserves the right to exclude from the warranty or service agreement any repairs for damage to HP products which HP reasonably determines or believes were caused by use of non-HP media or cleaning supplies. HP will, upon request, repair such damage on a time and material basis.

\* The information and specifications presented in this data sheet are subject to change without notice.

For assistance call the HP regional office nearest you: Eastern 301/258-2000, Midwest 312/255-9800, Southern 404/955-1500, Western 213/506-3700, Canadian 416/678-9430. Or write to Hewlett-Packard, 700 71st Ave., Greeley, Colorado 80634; in Europe, Hewlett-Packard, S.A., P.O. Box, 150, Route Du

Nant D'Avril, CH-1217, MEYRIN 2 (Geneva) Switzerland; elsewhere in the world, Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, California 94304.



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