RTE Driver DVA13 (for HP 91200B)

Programming and Operating Manual



PUBLICATION NOTICE

Text changes are supplied in the form of manual change notices or complete revisions to the manual. The publication history of any changes to this edition of the manual is given under "Publication History" below. The last change listed reflects the current software.

All changed pages are identified by a change number at the bottom of the page. Changed information is specifically identified by a vertical line (change bar) on the outer margin of the page.

PUBLICATION HISTORY

Second Edition	 November 1	970

NOTICE

The information contained in this document is subject to change without notice.

HEWLETT-PACKARD MAKES NO WARRANTY OF ANY KIND WITH REGARD TO THIS MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Hewlett-Packard shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

Hewlett-Packard assumes no responsibility for the use or reliability of its software on equipment that is not furnished by Hewlett-Packard.

This document contains proprietary information which is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced or translated to another program language without the prior written consent of Hewlett-Packard Company.

CONTENTS

Section I	Page	User Notes	2-4
GENERAL INFORMATION		Hardware Operation	
General Description	1-1	-	
Operating Environment	1-1		
•		Section III	Page
		RTE GENERATION	_
Section II	Page	Introduction	3-1
APPLICATION INFORMATION	J	RTE Generation	3-1
General	2-1	Program Input Phase	3-1
Calling Sequence	2-1	Table Generation Phase	3-1
Control Requests		RTE BASIC Generation	3-8
Time Out		RTE-B	3-3
Write Requests		Multi-User Real-Time BASIC	3-8

ILLUSTRATIONS

Title	Page
CONWD Format	2-1

TABLES

Title	Page
Driver DVA13 Control Request	2-2
Driver DVA13 Write Request	
Mode Storage Register Bit 0 Coding	

GENERAL INFORMATION

SECTION

1-1. GENERAL DESCRIPTION

- 1-2. This manual contains information and procedures that allow the user to write application programs using HP FORTRAN or HP Assembly language and Real-Time Executive (RTE) Driver DVA13. Section III provides information required when configurating DVA13 into a Real-Time Operating System.
- 1-3. Driver DVA13 and a library of graphic display subroutines supplied with the Real-Time Executive software (included in the HP 92062 RTE Driver Package) for the HP 91200B TV Interface Kit are used together to program display information on one or more black-and-white (BW) or color television (TV) monitors. The driver may also be called directly with HP FORTRAN or HP Assembly language calls to perform write and control requests. The Direct Memory Access (Dual Channel Port Controller for 21MX and HP 1000) function is required by the driver for write requests. Several TV monitors connected in parallel may be operated by the driver to display the same information on all monitors. Also, the driver is capable of operating one or more TV interface cards at the same time with each card supplying different information. If desired, two or three TV interface cards can be operated jointly to supply gray-scale video to a black-and-white monitor or color video to a color monitor.
- 1-4. Driver DVA13 can command the TV interface card(s) to perform the following functions:
- a. Set mode (color) of display.
- b. Set polarity of display.
- c. Write any point(s) on a 256 x 256 display.
- d. Erase any point(s) on a 256 x 256 display.
- e. Erase entire display to selected polarity.

1-5. OPERATING ENVIRONMENT

1-6. The operating environment for this driver must be an HP 2100A/S, 21MX, or HP 1000 Computer, an RTE Operating System, and the HP 91200B TV Interface Kit. Refer to the HP 91200B TV Interface Kit Installation and Service Manual, part no. 91200-90001, for hardware details.

APPLICATION INFORMATION

SECTION

2-1. GENERAL

2-2. This section details the calls to the driver and describes any results of the hardware/software marriage where the hardware may influence software techniques.

2-3. CALLING SEQUENCE

2-4. The HP 91200B TV Interface Kit is operated in the RTE system through HP FORTRAN, HP BASIC, or HP Assembly language programs calling DVA13. The driver and the display subroutines are used together to allow the user to program display information for one or more TV monitors. The driver is not generally accessed directly by the calling program, rather calls are made to the library subroutines which format the proper calling sequences to the driver. These calls are described in Section III of the HP 91200B TV Interface Kit Programming and Operating Manual, part no. 91200-90006. Direct calls to the driver in HP FORTRAN or HP Assembly can also cause the TV interface card(s) to respond to control and write requests using the standard calls to EXEC. These calls are described in paragraphs 2-5 through 2-11.

2-5. CONTROL REQUESTS

2-6. Direct Memory Access (DMA) or Dual Channel Port Controller (DCPC) is not used for control functions and the DMA/DCPC channel is released. The control word format is illustrated in figure 2-1. Valid control functions recognized by the driver for control word bits 6 through 10 are fully detailed in table 2-1. Control requests with bit 8 set to 0 (mode and sense) are executed by storing the function code in a 2-bit mode control register on the TV interface card. This is achieved by issuing STF and CLC instructions followed by an OTA/B with bit 0 of the mode storage register programmed as shown in table 2-3. No interrupt is expected after these requests, and the driver does an immediate completion return.

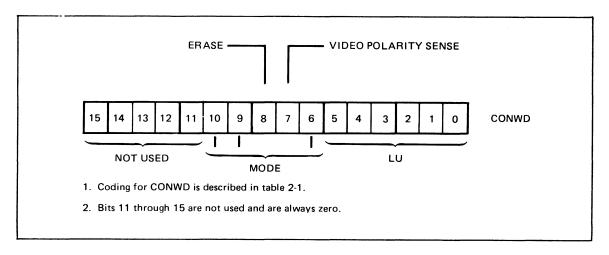


Figure 2-1. CONWD Format

Table 2-1. Driver DVA13 Control Request

ASSEMBLY LANGUAGE							
EXT EXEC	Where:						
•	ICODE = Function 3 = Con						
JSB EXEC DEF *+3	ICNWD= Control we		1 for forma	t. •			
DEF ICODE DEF ICODE							
<return point=""></return>	Bits 0 thru 5	= Logical unit (LU) numbe	r of TV interf	ace card.	*	
	Bit 7	Video polarity s 0 = normal vide 1 = inverse vid 6,9,10).	o polarity	(color as spec (complement	cified by I of color	Mode bits 6,9, specified by M	10). Mode bits,
		Compleme	ntary pairs	of colors are	as follow	s:	
		3-Card Sys Normal Inve		2-Card Sy Normal In			l System il Inverse
		White - Bla Red - Cya Green - Mag Blue - Yell	ın enta	Yellow - Red - G		Black	- White
	Bit 8	Resulting				n cleared (bu rious control re	
	Bits 6, } 9, 10	= Mode (color)					
		Bits 10 9 6	3-Card Color	3-Card BW	2-Card Color	2-Card BW	1-Card BW
		0 0 0 =	White	7/8 (White)	Yellow	3/4 (White)	White
		(0) 0 0 1 =	Black	Black	Black	Black	Black
		(1) 0 1 0 =	Red	1/2	Red	1/2	White
		(2) 0 1 1 =	Green	1/4	Green	1/4	Black
		(3) 1 0 0 =	Blue	1/8	Black	Black	Black
		(4) 1 0 1 = (5)	Yellow	3/4	Yellow	3/4 (White)	White
			Magenta	5/8	Red	1/2	White
		1 1 1 =	Cyan	3/8	Green	1/4	Black
		ignated LU is for a		subchannel, v	white is p	roduced for all	values of
1	MOGE EXC	opt oo i (i) black					

2-7. A control request with bit 8 set to 1 (erase) is executed by a MIA instruction. An interrupt is required and the driver does a normal interrupt return.

2-8. TIME OUT

2-9. The driver processes time-out interrupts so that a CLC instruction will not be sent to the TV interface card and the card will not be "downed". The driver does a normal completion upon time-out.

2-10. WRITE REQUESTS

2-11. A write request is a request for DMA/DCPC transfer of 16-bit XY coordinates to the TV interface card. The call is fully detailed in table 2-2. The driver initiates the DMA/DCPC transfer. An STC command follows each word transfer but no final CLC instruction is issued. The driver prevents a final DMA/DCPC interrupt, but responds to a device interrupt to determine completion of the transfer.

Table 2-2. Driver DVA13 Write Request

ASSEMBLY LANGUAGE	
EXT EXEC JSB EXEC DEF *+5 DEF ICODE DEF LU DEF IBUFR DEF IBUFR Cretum point>	Where: ICODE = Function code. 1 = Write LU = Control word Bits 0 thru 5 } = Logical unit (LU) number of TV interface card. IBUFR = An array of point XY coordinates to be transferred to the TV interface card. Bits 0 thru 7 = X coordinate Bits 8 thru 15 = Y coordinate
	Note: The points in IBUFR are written or erased in BW or color depending upon the format of ICNWD in the previously issued control request, as described in table 2-1. IBUFL = Length of array in words (points).
FORTRAN	CALL EXEC (1, LU, IBUFR, IBUFL)

2-12. USER NOTES

- 2-13. The following information is provided to enable the user to make better use of the software supplied.
- a. When the TV interface card is initialized (PRESET), it is ready to accept the first data word as a control word. A control request should therefore precede a series of write requests in order to prevent the possibility of storing the first XY coordinate address as a control word.
- b. When processing a control request, the driver releases the DMA/DCPC channel that has been assigned and returns a zero transmission log.
- c. The driver sets bit 12 of its EQT4 entry to indicate that it will process a time-out.
- d. The driver processes a time-out interrupt by clearing bit 11 of its EQT and returns with (A) = 0.
- e. The driver processes a spurious interrupt by clearing its EQT15 entry.
- f. The driver initiates a DMA/DCPC transfer for a write request and completes the request by setting the request buffer length in the transmission log.

2-14. HARDWARE OPERATION

2-15. The TV interface card controls the sense of the displayed video by selecting the polarity of the raw video that it generates. For either sense, writing a point stores a logical 0 in a random access memory (RAM) location corresponding to the XY coordinates of the point. Conversely, erasing a point stores a logical 1 in the RAM address location. Whether a point is written or erased depends on the state of the mode storage register on the TV interface card. Bit 1 of this register controls the video polarity (0 = normal, 1 = inverse) and bit 0 controls the write/erase function (0 = write, 1 = erase). In a three card system, the state of bit 1 is stored in the mode register on all three cards and the state of bit 0 is determined by the color programmed, as shown in table 2-3.

Table 2-3. Mode Storage Register Bit 0 Coding

	CONWD	CONWD			MODE ST	DE STORAGE REGISTER BIT 0			
	MODE	BITS		CARD A	CARD B	CARD C			
COLOR	CODE	10	9	6	(RED)	(GREEN)	(BLUE)		
White	0	0	0	0	0	0	0		
Black	1	0	0	1	1	1	1		
Red	2	0	1	0	0	1	1		
Green	3	0	1	1	1	0	1		
Blue	4	1	0	0	1	1	0		
Yellow	5	1	0	1	0	0	1		
Magenta	6	1	1	0	0	1	l o		
Cyan	7	1	1	1	1	0	0		

RTE GENERATION

SECTION

3-1. INTRODUCTION

- 3-2. This section provides supplementary information to the system generation instructions contained in the following RTE software manuals:
- a. HP Real-Time Executive-II Software System Programming and Operating Manual, part no. 92001-93001.
- b. HP Real-Time Executive Core-Based Software System Programming and Operating Manual, part no. 29101-93001.
- c. RTE-IV On-Line Generator Reference Manual, part no. 92067-90002
- d. RTE-M System Generation Reference Manual, part no. 92064-90003.
- e. RTE-IVB On-Line Generator Reference Manual, part no. 92068-90007.

3-3. RTE GENERATION

3-4. The TV interface kit driver and library modules are loaded into the RTE system during RTGEN execution as described in the RTE system manuals. The items described in the following paragraphs must be supplied by the operator to configure the TV interface kit into the RTE system being generated.

3-5. PROGRAM INPUT PHASE

3-6. During the Program Input Phase, load the TV interface kit driver and library along with other I/O drivers and library programs being loaded. If a modified [TABL module is to be used (as discussed in Appendix A of the HP 91200B TV Interface Kit Programming and Operating Manual), load it *after* the TV interface kit library; this causes the modified [TABL to replace the library [TABL.

3-7. TABLE GENERATION PHASE

NOTE

In the following steps, "TV interface card" refers to the single card of a BW system or the master card (card A, red) of a multi-card system.

In the Table Generation Phase, make the following three entries:

a. An Equipment Table entry for the TV interface card:

```
*EQUIPMENT TABLE ENTRY

nn,DVA13,D,T=4
```

where "eqt" is the EQT entry number, "nn" is the select code or the TV interface card, "D" specifies the use of a DMA/DCPC channel, and "T" is the time-out value for the card. Set "T" to 4 (40 milliseconds). European systems may require a setting of 5 (50 milliseconds). Do not specify the buffering (B) option because buffering will slow down operation of the TV interface kit.

NOTE

The time-out values given assume POINT/PNTS programming with a buffer not exceeding 5K words. If a larger buffer is used, it may be necessary to increase the time-out setting.

b. A Device Reference Table entry relating the logical unit number chosen for the TV interface card to the Equipment Table entry.

```
*DEVICE REFERENCE TABLE

.

m = EQT #?

eqt
.
```

where "m" is the logical unit number to be assigned to the TV interface card and "eqt" is the EQT entry number for the card. Suppose the EQT entry was the sixth in the EQT table and the selected logical unit is 7; during entry of the DRT, the number 6,0 would be the correct response to 7 = EQT #?

A designated logical unit number with a non-zero subchannel will cause white to be produced for all values of MODE programming, with the exception of 001 (black). Designation of this *additional* logical unit number, in addition to the zero subchannel described above, provides the user with a convenient method of checking the black-and-white appearance of the color program.

c. An Interrupt Table entry for the TV interface card:

```
nn,EQT,eqt
where "nn" is the select code and "eqt" is the EQT entry number of the TV interface card.
```

3-8. RTE BASIC GENERATION

3-9. When generating an RTE BASIC system, add the TV interface library subroutines to the Branch and Mnemonic Tables as follows:

3-10. RTE-B

3-11. At the portion of the generation procedure where subroutines are added to the Branch and Mnemonic Tables, enter the following:

```
*ADD SUBROUTINES*
VIDLU(I,I),SUB=VIDLU
ERASE,SUB=ERASE
VECTR(I,I,I,I,I,I,I),SUB=VECTR
VAREA(I,I,I,I,I,I),SUB=VAREA
VEND(V,V),SUB=VEND
CHARS(I,I,R,I,I,I,I,),SUB=CHARS
PNTS(R,I,I),SUB=PNTS
/E
```

3-12. MULTI-USER REAL-TIME BASIC

3-13. Enter the following RTETG commands at Subroutine Table Generation:

```
VIDLU(I,I),OV=N,ENT=VIDLU,FIL=name
ERASE,OV=N,ENT=ERASE,FIL=name
VECTR(I,I,I,I,I,I),OV=N,ENT=VECTR,FIL=name
VAREA(I,I,I,I,I,I),OV=N,ENT=VAREA,FIL=name
VEND(IV,IV),OV=N,ENT=VEND,FIL=name
CHARS(I,I,RA,I,I,I,I),OV=N,ENT=CHARS,FIL=name
PNTS(RA,I,I),OV=N,ENT=PNTS,FIL=name
```

where:

"N" is the overlay number to be used for these routines.

"name" is the name of the file containing the TV interface library. If the TV interface library was configured into the RTE system at RTEGN time the ,FIL=name should be omitted.

READER COMMENT SHEET

RTE DRIVER DVA13 (for HP 91200B) Programming and Operating Manual

91200-90005 November 1979 Change No. _____ (If Applicable)

	evaluation of this manual. nal pages if necessary.	Your	comments	and	suggestions	help	us imp	orove o	ur	publications.
Is this manual tech	nnically accurate?									
Is this manual com	plete?									
Is this manual easy	to read and use?									
Other comments?										
FROM:										
Name										
Company			····							
Address										
										



BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 141 CUPERTINO, CA.

- POSTAGE WILL BE PAID BY -

Hewlett-Packard Company
Data Systems Division
11000 Wolfe Road
Cupertino, California 95014
ATTN: Technical Marketing Dept.

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES



FOLD

FOLD

Arranged alphabetically by country



Product Line Sales/Support Key

Key Product Line

- Analytical
- CM Components
- Computer Systems Sales only
- CH Computer Systems Hardware Sales and Services CS
- Computer Systems Software Sales and Services
- Electronic Instruments & Measurement Systems
- **Medical Products**
- **Medical Products Primary SRO**
- Medical Products Secondary SRO MS
- Personal Computation Products
- Sales only for specific product line
- Support only for specific product line

IMPORTANT: These symbols designate general product line capability. They do not insure sales or support availability for all products within a line, at all locati Contact your local sales office for information regarding locations where HP support is available for specific products.

HP distributors are printed in italics.

ANGOLA

Telectra Empresa Técnica de Equipamentos R. Barbosa Rodrigues, 41-I DT. Caixa Postal 6487 LUANDA Tel: 355 15,355 16 E.M.P

ARGENTINA

Hewlett-Packard Argentina S.A. Avenida Santa Fe 2035 Martinez 1640 BUENOS AIRES Tel: 798-5735, 792-1293 Telex: 17595 BIONAR Cable: HEWPACKARG A.E.CH.CS.P

Biotron S.A.C.I.M. e I. Av Paseo Colon 221, Piso 9 1399 BUENOS AIRES Tel: 30-4846, 30-1851 Telex: 17595 BIONAR

AUSTRALIA

Adelaide, South Australia

Hewlett-Packard Australia Ltd. 153 Greenhill Road PARKSIDE, S.A. 5063 Tel: 272-5911 Telex: 82536 Cable: HEWPARD Adelaide A*,CH,CM,,E,MS,P

Brisbane, Queensland Office

Hewlett-Packard Australia Ltd. 10 Payne Road THE GAP, Queensland 4061 Tel: 30-4133 Telex: 42133 Cable: HEWPARD Brisbane A,CH,CM,E,M,P

Canberra, Australia Capital Territory Office

Hewlett-Packard Australia Ltd. 121 Wollongong Street FYSHWICK, A.C.T. 2609 Tel: 80 4244 Telex: 62650 Cable: HEWPARD Canberra CH.CM.E.P

Melbourne, Victoria Office

Hewlett-Packard Australia Ltd. 31-41 Joseph Street **BLACKBURN**, Victoria 3130 Tel: 890 6351 Telex: 31-024

Cable: HEWPARD Melbourne A,CH,CM,CS,E,MS,P

Perth, Western Australia Office

Hewlett-Packard Australia Ltd. 261 Stirling Highway CLAREMONT, W.A. 6010 Tel: 383-2188 Telex: 93859 Cable: HEWPARD Perth A,CH,CM,,E,MS,P

Sydney, New South Wales Office Hewlett-Packard Australia Ltd.

17-23 Talavera Road P.O. Box 308 NORTH RYDE, N.S.W. 2113 Tel: 887-1611 Telex: 21561 Cable: HEWPARD Sydney A,CH,CM,CS,E,MS,P

AUSTRIA

Hewlett-Packard Ges.m.b.h. Grottenhofstrasse 94 Verkaufsburo Graz A-8052 GRAZ Tel: 291-5-66 Telex: 32375 CH F

Hewlett-Packard Ges.m.b.h. Lieblaasse 1 P.O. Box 72 A-1222 VIENNA Tel: (0222) 23-65-11-0

Telex: 134425 HEPA A A,CH,CM,CS,E,MS,P BAHRAIN

Green Salon P.O. Box 557 BAHRAIN

Tel: 255503-255950 Telex: 84419

Wael Pharmacy P.O. Box 648 BAHRAIN Tel: 256123 Telex: 8550 WAEL BN F M

BELGIUM

Hewlett-Packard Belgium S.A./N.V. Blvd de la Woluwe, 100 Woluwedal B-1200 BRUSSELS Tel: (02) 762-32-00 Telex: 23-494 paloben bru A.CH.CM.CS.E.MP.P

BRAZIL

Hewlett-Packard do Brasil I.e.C. Ltda. Alameda Rio Negro, 750 Alphaville 06400 BARUERI SP Tel: (011) 421.1311

Telex: (011) 33872 HPBR-BR Cable: HEWPACK Sao Paulo A.CH.CM.CS.E.M.P Hewlett-Packard do Brasil I.e.C.

Ltda. Avenida Epitacio Pessoa, 4664 22471 RIO DE JANEIRO-RJ Tel: (02I) 286.0237 Telex: 021-21905 HPBR-BR Cable: HEWPACK Rio de Janeiro A,CH,CM,E,MS,P*

CANADA

Hewlett-Packard (Canada) Ltd. 210, 7220 Fisher Street S.E. CALGARY, Alberta T2H 2H8 Tel: (403) 253-2713 A,CH,CM,E*,MS,P*

Hewlett-Packard (Canada) Ltd. 11620A-168th Street EDMONTON, Alberta T5M 3T9 Tel: (403) 452-3670 A,CH,CM,CS,E,MS,P

British Columbia Hewlett-Packard (Canada) Ltd.

10691 Shellbridge Way RICHMOND, British Columbia V6X 2W7 Tel: (604) 270-2277 Telex: 610-922-5059 A,CH,CM,CS,E*,MS,P

Manitoba

Hewlett-Packard (Canada) Ltd. 380-550 Century Street WINNIPEG, Manitoba R3H 0Y1 Tel: (204) 786-6701 A,CH,CM,E,MS,P*

New Brunswick

Hewlett-Packard (Canada) Ltd. 37 Sheadiac Road MONCTON, New Brunswick E2B 2VQ Tel: (506) 855-2841

Nova Scotia

Hewlett-Packard (Canada) Ltd. P.O. Box 931 900 Windmill Road DARTMOUTH, Nova Scotia B2Y 3Z6 Tel: (902) 469-7820 CH,CM,CS,E*,MS,P*

Ontario

Hewlett-Packard (Canada) Ltd. 552 Newbold Street LONDON, Ontario N6E 2S5 Tel: (519) 686-9181 A,CH,CM,E*,MS,P* Hewlett-Packard (Canada) Ltd. 6877 Goreway Drive MISSISSAUGA, Ontario L4V 1M8 Tel: (416) 678-9430 A.CH.CM.CS.E.MP.P

Hewlett-Packard (Canada) Ltd. 2670 Queensview Dr. OTTAWA, Ontario K2B 8K1 Tel: (613) 820-6483 A,CH,CM,CS,E*,MS,P Hewlett-Packard (Canada) Ltd. 220 Yorkland Blvd., Unit #11

WILLOWDALE, Ontario M2J 1R5 Tel: (416) 499-9333 CH

Hewlett-Packard (Canada) Ltd.

Quebec

17500 South Service Road Trans-Canada Highway KIRKLAND, Quebec H9J 2M5 Tel: (514) 697-4232 A,CH,CM,CS,E,MP,P* Hewlett-Packard (Canada) Ltd. Les Galeries du Vallon 2323 Du Versont Nord STE. FOY, Quebec G1N 4C2 Tel: (418) 687-4570

CHILE

Jorge Calcagni y Cia. Ltda. Arturo Buhrle 065 Casilla 16475 SANTIAGO 9 Tel: 222-0222 Telex: Public Booth 440001 A.CM.E.M

Av. Rodrigo de Araya 1045 Casilla 256-V SANTIAGO 21 Tel: (02) 22 55 044 Telex: 240-565 OLYMP CL Cable: Olympiachile Santiagochile

Olympia (Chile) Ltda.

CHINA, People's Republic

China Hewlett-Packard Rep. Office P.O. Box 418 1A Lane 2, Luchang St. Beiwei Rd., Xuanwu District BEIJING

Tel: 33-1947, 33-7426 Telex: 22601 CTSHP CN Cable: 1920 A,CH,CM,CS,E,P

COLOMBIA

Instrumentación H. A. Langebaek & Kier S.A. Carrera 4A No. 52A-26 Apartado Aereo 6287 BOGOTA 1. D.E. Tel: 212-1466 Telex: 44400 INST CO Cable: AARIS Bogota CM.E.M

COSTA RICA

Cientifica Costarricense S A Avenida 2. Calle 5 San Pedro de Montes de Oca Apartado 10159 SAN JOSÉ Tel: 24-38-20, 24-08-19

Telex: 2367 GALGUR CR CM F M

CYPRUS

Telerexa I td P.O. Box 4809 14C Stassinos Avenue NICOSIA Tel: 62698 Telex: 2894 LEVIDO CY FMP

DENMARK

Hewlett-Packard A/S Datavej 52 DK-3460 BIRKEROD Tel: (02) 81-66-40 Telex: 37409 hpas dk A,CH,CM,CS,E,MS,P Hewlett-Packard A/S Rolighedsvej 32 DK-8240 RISSKOV Tel: (06) 17-60-00 Telex: 37409 hpas dk CH.E

DOMINICAN REPUBLIC

Microprog S.A. Juan Tomás Mejiá y Cotes No. 60 Arroyo Hondo SANTO DOMINGO Tel: 565-6268 Telex: 4510 ARENTA DR (RCA)

FCUADOR CYEDE Cia. Ltda.

Avenida Eloy Alfaro 1749 Casilla 6423 CCI OUITO Tel: 450-975, 243-052 Telex: 2548 CYEDE ED CM.E.P Hospitalar S.A. Robles 625 Casilla 3590 QUITO Tel: 545-250, 545-122 Telex: 2485 HOSPTL ED Cable: HOSPITALAR-Quito

EGYPT

International Engineering Associates 24 Hussein Hegazi Street Kasr-el-Aini CAIRO Tel: 23829, 21641 Telex: IEA UN 93830 CH,CS,E,M Informatic For Systems 22 Talaat Harb Street CAIRO Tel: 759006 Telex: 93938 FRANK UN

Egyptian International Office for Foreign Trade P.O.Box 2558 CAIRO Tel: 650021

Telex: 93337 EGPOR

EL SALVADOR

IPESA de El Salvador S.A. 29 Avenida Norte 1216 SAN SALVADOR Tel: 26-6858, 26-6868 Telex: 20539 EPISA A.CH.CM.CS.E.P



Arranged alphabetically by country

FINLAND

Hewlett-Packard Oy Revontulentie 7 SF-02100 ESP00 10 Tel: 00358-0-4550211 Telex: 9100 A,CH,CM,CS,E,MS,P Hewlett-Packard Oy Aatoksenkatv 10-C SF-40720-72 JYVASKYLA Tel: (941) 216318 CH

Hewlett-Packard Oy Kainvuntie 1-C SF-90140-14 OULU Tel: (981) 338785 CH

FRANCE

Hewlett-Packard France Z.I. Mercure B Rue Berthelot F-13763 Les Milles Cedex AIX-EN-PROVENCE Tel: 16 (42) 59-41-02

Tel: 16 (42) 59-41-02 Telex: 410770F A,CH,E,MS,P*

Hewlett-Packard France 64, rue Marchand Saillant F-61000ALENCON Tel: 16 (33) 29 04 42

Hewlett-Packard France Boite Postale 503 F-25026 BESANCON 28 rue de la Republique F-25000 BESANCON Tel: 16 (81) 83-16-22 CH.M

Hewlett-Packard France 13, Place Napoleon III F-29000 BREST Tel: 16 (98) 03-38-35

Hewlett-Packard France Chemin des Mouilles Boite Postale 162 F-69 130 ECULLY Cedex Tel: 16 (78) 833-81-25 Telex: 310617F A,CH,CS,E,MP

Hewlett-Packard France Tour Lorraine Boulevard de France F-91035 EVRY Cedex Tel: 16 6 077-96-60 Telex: 692315F

Hewlett-Packard France 5, avenue Raymond Chanas F-38320 EYBENS Tel: 16 (76) 25-81-41 Telex: 980124 HP GRENOB EYBE

Hewiett-Packard France Centre d'Affaire Paris-Nord Bâtiment Ampère 5 étage Rue de la Commune de Paris Boite Postale 300 F-93153 LE BLANC MESNIL Tel: 16 (1) 885-44-52 Telex: 211032F CH,CS,E,MS

Hewlett-Packard France Parc d'Activités Cadera Quartier Jean Mermoz Avenue du Président JF Kennedy F-33700 MERIGNAC Tel: 16 (56) 34-00-84 Telex: 550105F

Tel: 16 (56) 34-00-84 Telex: 550105F CH,E,MS Hewlett-Packard France Immueble "Les 3 B" Nouveau Chemin de la Garde ZAC de Bois Briand F-44085 NANTES Cedex Tel: 16 (40) 50-32-22 CH"*

Hewlett-Packard France 125, rue du Faubourg Bannier F-45000 ORLEANS Tel: 16 (38) 68 01 63

Hewlett-Packard France Zone Industrielle de Courtaboeuf Avenue des Tropiques F-91947 Les Ulis Cedex ORSAY Tel: (6) 907-78-25

Telex: 600048F A,CH,CM,CS,E,MP,P

Hewlett-Packard France Paris Porte-Maillot 15, Avenue de L'Amiral Bruix F-75782 PARIS CEDEX 16 Tel: 16 (1) 502-12-20 Telex: 613663F CH,MS,P

Hewlett-Packard France 124, Boulevard Tourasse F-64000 PAU Tel: 16 (59) 80 38 02

Hewlett-Packard France 2 Allée de la Bourgonnette F-35 100 RENNES Tel: 16 (99) 51-42-44 Telex: 7409 12F CH,CM,E,MS,P*

Hewlett-Packard France 98 Avenue de Bretagne F-76100 ROUEN Tel: 16 (35) 63-57-66 CH**.CS

Hewlett-Packard France Boite Postale 56 F-67033 STRASBOURG Cedex 4 Rue Thomas Mann F-67200 STRASBOURGCedex Tel: 16 (88) 28-58-46

Tel: 16 (88) 28-56-48
Telex: 890141F
CH,E,MS,P*
Hewlett-Packard France

Le Péripole 3, Chemin du Pigeonnier de la Cépière F-31083 TOULOUSE Cedex Tel: 16 (61) 40-11-12 Telex: 531839F

A,CH,CS,E,P°
Hewiett-Packard France
9, rue Baudin
F-26000 VALENCE

F-26000 VALENCE Tel: 16 (75) 42 76 16 Hewlett-Packard France

Garolor ZAC de Bois Briand F-57640 VIGY Tel: 16 (8) 771 20 22

CH

Hewlett-Packard France Immeuble Péricentre F-59658 VILLENEUVE D'ASCO Cedex Tei: 16 (20) 91-41-25 Telex: 160124F CH.E.MS.P*

GERMAN FEDERAL REPUBLIC

Hewlett-Packard GmbH Geschäftsstelle Keithstrasse 2-4 D-1000 BERLIN 30 Tel: (030) 24-90-86 Telex: 018 3405 hpbin d A.CH.E.M.P Hewlett-Packard GmbH Geschäftsstelle Herrenberger Strasse 110 D-7030 BÖBLINGEN Tel: (7031) 667-750 Telex: bbn or A,CH,CM,CS,E,MP,P

Hewiett-Packard GmbH Geschäftsstelle Emanuel-Leutze-Strasse 1 D-4000 DUSSELDORF Tel: (0211) 5971-1 Telex: 085/86 533 hpdd d A,CH,CS,E,MS,P

Hewlett-Packard GmbH Vertriebszentrale Frankfurt Berner Strasse 117 Postfach 560 140 D-6000 FRANKFURT 56 Tel: (0611) 50-04-1

Telex: 04 13249 hpffm d A,CH,CM,CS,E,MP,P Hewlett-Packard GmbH

Geschäftsstelle Kapstadtring 5 D-2000 HAMBURG 60 Tel: (040) 63804-1 Telex: 021 63 032 hphh d A.CH.CS.E.MS.P

Hewlett-Packard GmbH Geschäftsstelle Heidering 37-39 D-3000 HANNOVER 91 Tel: (0511) 5706-0 Telex: 092 3259 A,CH,CM,E,MS,P

Hewlett-Packard GmbH Geschäftsstelle Rosslauer Weg 2-4 D-6800 MANNHEIM Tel: (0621) 70050 Telex: 0462105 A,C,E

Hewlett-Packard GmbH Geschäftsstelle Messerschmittstrasse 7 D-7910 NEU ULM Tel: 0731-70241 Telex: 0712816 HP ULM-D

Hewlett-Packard GmbH Geschäftsstelle Neumeyerstrasse 90 D-8500 NÜRNBERG Tel: (0911) 52 20 83-87 Telex: 0623 860

CH,CM,E,MS,P
Hewiett-Packard GmbH
Geschäftsstelle
Eschenstrasse 5
D-8028 TAUFKIRCHEN
Tel: (089) 6117-1
Telex: 0524985
A.CH.CM.E.MS,P

GREAT BRITAIN See United Kingdom

GREECE
Kostas Karaynnis S.A.
8 Omirou Street
ATHENS 133
Tel: 32 30 303, 32 37 371
Telex: 215962 RKAR GR
A,CH,CM,CS,E,M,P
PLAISIO S.A.
G. Gerardos
24 Stournara Street
ATHENS
Tel: 36-11-160

Telex: 221871

GUATEMALA

IPESA Avenida Reforma 3-48, Zona 9 GUATEMALA CITY Tel: 316627, 314786 Telex: 4192 TELTRO GU A.CH.CM.CS.E.M.P

HONG KONG

Hewlett-Packard Hong Kong, Ltd. G.P.O. Box 795 5th Floor, Sun Hung Kai Centre 30 Harbour Road HONG KONG Tel: 5-8323211 Telex: 66678 HEWPA HX Cable: HEWPACK HONG KONG

E,CH,CS,P CET Ltd. 1402 Tung Way Mansion 199-203 Hennessy Rd. Wanchia, HONG KONG

Tel: 5-729376 Telex: 85148 CET HX

Schmidt & Co. (Hong Kong) Ltd. Wing On Centre, 28th Floor Connaught Road, C. HONG KONG Tel: 5-455644

Telex: 74766 SCHMX HX

ICELAND Elding Trading Company Inc.

Hafnarnvoli-Tryggvagotu P.O. Box 895 IS-REYKJAVIK Tel: 1-58-20, 1-63-03

INDIA

Computer products are sold through Blue Star Ltd. All computer repairs and maintenance service is done through Computer Maintenance Corp.

Rive Star Ltd. Sabri Complex II Floor 24 Residency Rd. BANGALORE 560 025 Tel: 55660 Telex: 0845-430 Cable: BLUESTAR A,CH*,CM,CS*.E Blue Star Ltd. Band Box House Prabhadevi BOMBAY 400 025 Tel: 422-3101 Telex: 011-3751 Cable: BLUESTAR A.M Blue Star Ltd.

Sahas
414/2 Vir Savarkar Marg
Prabhadevi
BOMBAY 400 025
Tel: 422-6155
Telex: 011-4093
Cable: FROSTBLUE
A,CH*,CM,CS*,E,M
Blue Star Ltd.
Kalyan, 19 Vishwas Colony
Alkapuri, BORODA, 390 005
Tel: 65235

A
Blue Star Ltd.
7 Hare Street
CALCUTTA 700 001
Tel: 12-01-31
Telex: 021-7655
Cable: BLUESTAR

Cable: BLUE STAR

Blue Star Ltd. 133 Kodambakkam High Road MADRAS 600 034 Tel: 82057 Telex: 041-379 Cable: BLUESTAR A.M

Blue Star Ltd.
Bhandari House, 7th/8th Floors
91 Nehru Place
NEW DELHI 110 024
Tel: 682547
Telex: 031-2463
Cable: BLUESTAR
A,CH*,CM,CS*,E,M
Blue Star Ltd.
15/16:C Wellesley Rd.

15/16:C Wellesley Rd. PUNE 411 011 Tel: 22775 Cable: BLUE STAR

Blue Star Ltd. 2-2-47/1108 Bolarum Rd. SECUNDERABAD 500 003 Tel: 72057 Telex: 0155-459 Cable: BLUEFROST

Blue Star Ltd. T.C. 7/603 Poornima Maruthankuzhi TRIVANDRUM 695 013 Tel: 65799 Telex: 0884-259 Cable: BLUESTAR

Computer Maintenance Corporation Ltd.

115, Sarojini Devi Road SECUNDERABAD 500 003 Tel: 310-184, 345-774 Telex: 031-2960

INDONESIA

BERCA Indonesia P.T.
P.O.Box 496/JKT.
JI. Abdul Muis 62
JAKARTA
Tel: 373009
Telex: 46748 BERSAL IA
Cable: BERSAL JAKARTA
P

BERCA Indonesia P.T.
P.O.Box 2497/Jkt Antara Bidg.,
17th Floor
J. Hedan Merdeka Selatan 17
JAKARTA-PUSAT
Tel: 21-344-181
Telex: BERSAL IA
A.CS.E.M
BERCA Indonesia P.T.
P.O. Box 174/SBY.
JI. Kutel No. 11
SURABAYA
Tel: 88172
Telex: 31146 BERSAL SB
Cable: BERSAL-SURABAYA

A*,E,M,P

Hewlett-Packard Trading S.A. Service Operation AI Mansoor City 9B/3/7 BAGHDAD Telex: 212-455 HEPAIRAQ IK CH.CS

Arranged alphabetically by country



IRELAND

Hewlett-Packard Ireland Ltd. 82/83 Lower Leeson Street DUBLIN 2 Tel: (1) 60 88 00 Telex: 30439 A,CH,CM,CS,E,M,P Cardiac Services Ltd. Kilmore Road Artane DUBLIN 5 Tel: (01) 351820 Telex: 30439

ISRAEL

Eldan Electronic Instrument Ltd. P.O.Box 1270 JERUSALEM 91000 16, Ohaliav St. JERUSALEM 94467 Tel: 533 221, 553 242 Telex: 25231 AB/PAKRD IL

Electronics Engineering Division Motorola Israel Ltd. 16 Kremenetski Street P.O. Box 25016 TEL-AVIV 67899 Tel: 3-338973 Telex: 33569 Motil IL Cable: BASTEL Tel-Aviv CH,CM,CS,E,M,P

ITALY

Hewlett-Packard Italiana S.p.A Traversa 99C Via Giulio Petroni, 19 I-70124 BARI Tel: (080) 41-07-44 M

Hewlett-Packard Italiana S.p.A. Via Martin Luther King, 38/111 I-40132 BOLOGNA Tel: (051) 402394 Telex: 511630 CH F MS

Hewlett-Packard Italiana S.p.A. Via Principe Nicola 43G/C I-95126 CATANIA Tel: (095) 37-10-87 Telex: 970291

U,P
Hewlett-Packard Italiana S.p.A.
Via G. Di Vittorio 9
1-20063 CERNUSCO SUL NAVIGLIO
Tel: (2) 903691
Telex: 334632
A,CH,CM,CS,E,MP,P

Hewlett-Packard Italiana S.p.A. Via Nuova San Rocco a Capodimonte, 62/A I-80131 NAPLES Tel: (081) 7413544 Telex: 710698

Hewlett-Packard Italiana S.p.A. Viale G. Modugno 33 I-16156 GENOVA PEGLI Tel: (010) 68-37-07 Telex: 215238 E.C

Hewlett-Packard Italiana S.p.A. Via Turazza 14 I-35100 PADOVA Tel: (049) 664888 Telex: 430315 A.CH.E.MS

Hewlett-Packard Italiana S.p.A. Viale C. Pavese 340 I-00144 ROMA Tel: (06) 54831 Telex: 610514 A,CH,CM,CS,E,MS,P* Hewlett-Packard Italiana S.p.A. Corso Svizzera, 184 I-10149 TORINO Tel: (011) 74 4044 Telex: 221079 CH.E

JAPAN

Yokogawa-Hewlett-Packard Ltd. 152-1, Onna 000 ATSUGI, Kanagawa, 243 Tel: (0462) 28-0451 CM.C*.E

Yokogawa-Hewlett-Packard Ltd. Towa Building 2-3, Kaigan-dori, 2 Chome Chuo-ku KOBE, 650 Tel: (078) 392-4791

Yokogawa-Hewlett-Packard Ltd. Kumagaya Asahi 82 Bidg 3-4 Tsukuba KUMAGAYA, Saitama 360 Tel: (0485) 24-6563

CH,CM,E
Yokogawa-Hewlett-Packard Ltd.
Asahi Shinbun Daiichi Seimei Bldg.
4-7, Hanabata-cho
KUMAMOTO,860
Tel: (0963) 54-7311
CH.E

Yokogawa-Hewlett-Packard Ltd. Shin-Kyoto Center Bldg. 614, Higashi-Shiokoji-cho Karasuma-Nishiiru Shiokoji-dori, Shimogyo-ku KY0TO, 600 Tel: 075-343-0921 CH F

Yokogawa-Hewlett-Packard Ltd. Mito Mitsui Bidg 4-73, Sannomaru, 1 Chome MITO, Ibaragi 310 Tel: (0292) 25-7470

CH,CM,E
Yokogawa-Hewlett-Packard Ltd.
Sumitomo Seimei 14-9 Bldg.
Meieki-Minami, 2 Chome
Nakamura-ku
NAGOYA, 450
Tel: (052) 571-5171

Yokogawa-Hewlett-Packard Ltd. Chuo Bldg., 4-20 Nishinakajima, 5 Chome Yodogawa-ku

CH,CM,CS,E,MS

Yodogawa-ku **OSAKA**, 532 Tel: (06) 304-6021 Telex: YHPOSA 523-3624 A,CH,CM,CS,E,MP,P*

Yokogawa-Hewlett-Packard Ltd. 27-15, Yabe, 1 Chome SAGAMIHARA Kanagawa, 229 Tel: 0427 59-1311

Yokogawa-Hewlett-Packard Ltd. Daiichi Seimei Bldg. 7-1, Nishi Shinjuku, 2 Chome Shinjuku-ku,TOKYO 160 Tel: 03-348-4611-5 CH,E

Yokogawa-Hewlett-Packard Ltd. 29-21 Takaido-Higashi, 3 Chome Suginami-ku TOKYO 168 Tel: (03) 331-6111 Telex: 232-2024 YHPTOK A,CH,CM,CS,E,MP,P*

Yokogawa-Hewlett-Packard Ltd. Daiichi Asano Building 2-8, Odori, 5 Chome UTSUNOMIYA, Tochigi 320 Tel: (0286) 25-7155 CH.CS.E Yokogawa-Hewlett-Packard Ltd. Yasuda Seimei Nishiguchi Bldg. 30-4 Tsuruya-cho, 3 Chome YOKOHAMA221 Tel: (045) 312-1252 CH,CM,E

JORDAN

Mouasher Cousins Company P.O. Box 1387 AMMAN Tel: 24907, 39907 Telex: 21456 SABCO JO CH.E.M.P

KENYA

ADCOM Ltd., Inc., Kenya P.O.Box 30070 MAIROBI Tel: 33 1955 Telex: 22639 E.M

KOREA

Samsung Electronics Computer Division 76-561 Yeoksam-Dong Kwangnam-Ku C.P.O. Box 2775 SEOUL Tel: 555-7555, 555-5447 Teles: K27364 SAMSAN

KUWAIT

A,CH,CM,CS,E,M,P

Al-Khaldiya Trading & Contracting P.O. Box 830 Safat KUWAIT
Tel: 42-4910, 41-1726
Telex: 22481 Areeg kt
CH.E.M
Photo & Cine Equipment

P.O. Box 270 Safat KUWAIT Tel: 42-2846, 42-3801 Telex: 22247 Matin kt

LEBANON

G.M. Dolmadjian Achrafieh P.O. Box 165.167 BEIRUT Tel: 290293 MP**

LUXEMBOURG

Hewlett-Packard Belgium S.A./N.V. Blvd de la Woluwe, 100 Woluwedal B-1200 BRUSSELS Tel: (02) 762-32-00 Telex: 23-494 paloben bru A,CH,CM,CS,E,MP,P

MALAYSIA

Hewlett-Packard Sales (Malaysia) Sdn. Bhd. 1st Floor, Bangunan British American Jalan Semantan, Damansara Heights KUALA LUMPUR 23-03

Tel: 943022 Telex: MA31011 A,CH,E,M,P* Protel Engineering P.O.Box 1917 Lot 6624, Section 64

23/4 Pending Road Kuching, SARAWAK Tel: 36299 Telex: MA 70904 PROTEL Cable: PROTELENG A.E.M

MALTA

Philip Toledo Ltd. Notabile Rd. MRIEHEL Tel: 447 47, 455 66 Telex: Media MW 649

MEXICO

Hewlett-Packard Mexicana, S.A. de C.V. Av. Periferico Sur No. 6501 Tepepan, Xochimilco MEXICO D.F. 16020 Tel: 676-4600 Telex: 17-74-507 HEWPACK MEX A,CH,CS,E,MS,P Hewlett-Packard Mexicana, S.A. de C.V. Ave. Colonia del Valle #409 Col. del Valle Municipio de Garza Garcia MONTERREY, N.I. Tel: 78 42 41 Telex: 038 410 CH ECISA José Vasconcelos No. 218 Col. Condesa Deleg. Cuauhtémoc MEXICO D.F. 06140 Tel: 553-1206 Telex: 17-72755 ECE ME

MOROCCO

Dolbeau

81 rue Karatchi CASABLANCA Tel: 3041-82, 3068-38 Telex: 23051, 22822 E Gerep 2 rue d'Agadir Boile Postale 156 CASABLANCA Tel: 272093, 272095 Telex: 23 739

NETHERLANDS Hewlett-Packard Nederland B.V.

Van Heuven Goedhartlaan 121 NL 1181KK AMSTELVEEN P.O. Box 667 NL 1180 AR AMSTELVEEN Tel: (020) 47-20-21 Telex: 13 216 HEPA NL A,CH,CM,CS,E,MP,P Hewlett-Packard Nederland B.V.

Bongerd 2 NL 2906VK CAPELLE, A/D IJSSEL P.O. Box 41 NL 2900AA CAPELLE, A/D IJSSEL Tel: (10) 51-64-44 Telex: 21261 HEPAC NL A,CH,CS,E

NEW ZEALAND

Hewlett-Packard (N.Z.) Ltd. 169 Manukau Road P.O. Box 26-189 Epsom, AUCKAND Tel: 687-159 Cable: HEWPACK Auckland CH,CM,E,P*

Hewlett-Packard (N.Z.) Ltd. 4-12 Cruickshank Street Kilbirnie, WELLINGTON 3 P.O. Box 9443 Courtenay Place, WELLINGTON 3 Tel: 877-199 Cable: HEWPACK Wellington CH,CM,E,P Northrop Instruments & Systems Ltd. 369 Khyber Pass Road P.O. Box 8602 AUCKLAND Tel: 794-091 Telex: 60605 A,M

Northrop Instruments & Systems Ltd. 110 Mandeville St. P.O. Box 8388 CHRISTCHURCH Tel: 486-928 Telex: 4203 A.M

Northrop Instruments & Systems
Ltd.
Sturdee House
85-87 Ghuznee Street
P.O. Box 2406
WELLINGTON
Tel: 850-091
Telex: NZ 3380
A.M

NORTHERN IRELAND See United Kingdom

NORWAY

Hewlett-Packard Norge A/S Folke Bernadottes vei 50 P.O. Box 3558 N.5033 FYLLINGSDALEN (Bergen) Tel: (05) 16-55-40 Telex: 16621 hpnas n CH,CS,E,MS Hewlett-Packard Norge A/S Österndalen 18 P.O. Box 34 N.1345 ÖSTERÅS Tel: (02) 17-11-80 Telex: 16621 hpnas n A,CH,CM,CS,E,M,P

OMAN

Khimjil Ramdas P.O. Box 19 MUSCAT Tel: 722225, 745601 Telex: 3289 BROKER MB MUSCAT P

Suhail & Saud Bahwan P.O.Box 169 MUSCAT Tel: 734 201-3 Telex: 3274 BAHWAN MB

PAKISTAN

Mushko & Company Ltd.
1-8, Street 43
Sector F-8/1
ISLAMABAD
Tel: 26875
Cable: FEMUS Rawalpindi
A.E.M
Mushko & Company Ltd.
Oosman Chambers
Abdullah Haroon Road
KARACHI 0302
Tel: 524131, 524132
Telex: 2894 MUSKO PK

A,E,M,P* PANAMA

Electrónico Balboa, S.A. Calle Samuel Lewis, Ed. Alfa Apartado 4929 PANAMA 5 Tel: 64-2700 Telex: 3483 ELECTRON PG A.CM.E.M.P

Cable: COOPERATOR Karachi



Arranged alphabetically by country

PERU

Cía Electro Médica S.A. Los Flamencos 145, San Isidro Casilla 1030 LIMA 1 Tel: 41-4325, 41-3703 Telex: Pub. Booth 25306 CM.E.M.P

PHILIPPINES

The Online Advanced Systems Corporation Rico House, Amorsolo Cor. Herrera Legaspi Village, Makati P.O. Box 1510 Metro MANILA Tel: 85-35-81, 85-34-91, 85-32-21 Telex: 3274 ONLINE A,CH,CS,E,M Electronic Specialists and Proponents Inc. 690-B Epifanio de los Santos Avenue Cubao, QUEZON CITY

MACKAY BOOTH **PORTUGAL**

P.O. Box 2649 Manila

Mundinter Intercambio Mundial de Comércio S.A.R.L. P.O. Box 2761 Avenida Antonio Augusto de Aguiar 138 P-LISBON

Telex: 40018, 42000 ITT GLOBE

Tel: (19) 53-21-31, 53-21-37 Telex: 16691 munter p

Soquimica Av. da Liberdade, 220-2 1298 LISBOA Codex Tel: 56 21 81/2/3 Telex: 13316 SABASA

Telectra-Empresa Técnica de Equipmentos Eléctricos S.A.R.L. Rua Rodrigo da Fonseca 103 P.O. Box 2531 P-LISBON 1 Tel: (19) 68-60-72 Telex: 12598 CH,CS,E,P

PUERTO RICO

Hewlett-Packard Puerto Rico P.O. Box 4407 CAROLINA, Puerto Rico 00628 Calle 272 Edificio 203 Urb. Country Club **RIO PIEDRAS. Puerto Rico** Tel: (809) 762-7255 A.CH.CS

QATAR

Computearbia P.O. Box 2750 DOHA Tel: 883555 Telex: 4806 CHPARB

Eastern Technical Services P.O.Box 4747 DOHA Tel: 329 993 Telex: 4156 EASTEC DH

Nasser Trading & Contracting P.O.Box 1563 DOHA Tel: 22170, 23539 Telex: 4439 NASSER DH

SAUDI ARABIA

Modern Electronic Establishment Hewlett-Packard Division P.O. Box 281 Thuobah AL-KHOBAR Tel: 864-46 78 Telex: 671 106 HPMEEK SJ Cable: ELECTA AL-KHOBAR CH,CS,E,M,P Modern Electronic Establishment

Hewlett-Packard Division P.O. Box 1228 Redec Plaza, 6th Floor JEDDAH Tel: 644 38 48

Telex: 4027 12 FARNAS SJ Cable: ELECTA JEDDAH CH.CS.E.M.E Tel: 98-96-81, 98-96-82, 98-96-83

Modern Electronic Establishment Hewlett-Packard Division P.O.Box 2728 RIYADH

Tel: 491-97 15, 491-63 87 Telex: 202049 MEERYD SJ CH.CS.E.M.P

SCOTLAND

See United Kingdom

P.O. Box 58 Alexandra Post Office

SINGAPORE Hewlett-Packard Singapore (Sales)

SINGAPORE, 9115

Pte. Ltd.

450-452 Alexandra Road SINGAPORE 0511 Tel: 631788 Telex: HPSGSO RS 34209 Cable: HEWPACK, Singapore A,CH,CS,E,MS,P Dynamar International Ltd. Unit 05-11 Block 6 Kolam Ayer Industrial Estate SINGAPORE 1334 Tel: 747-6188 Telex: RS 26283

6th Floor, Inchcape House

SOUTH AFRICA

Hewlett-Packard So Africa (Pty.) Ltd. P.O. Box 120 Howard Place CAPE PROVINCE 7450 Pine Park Center, Forest Drive, **Pinelands CAPE PROVINCE 7405** Tel: 53-7954 Telex: 57-20006 A.CH.CM.E.MS.P Hewlett-Packard So Africa (Pty.) Ltd.

P.O. Box 37099 92 Overport Drive **DURBAN 4067** Tel: 28-4178, 28-4179, 28-4110 Telex: 6-22954 CH.CM

Hewlett-Packard So Africa (Pty.) 6 Linton Arcade 511 Cape Road Linton Grange PORT ELIZABETH 6001

Tel: 041-302148 СН Hewlett-Packard So Africa (Ptv.)

Ltd. P.O.Box 33345 Glenstantia 0010 TRANSVAAL 1st Floor East Constantia Park Ridge Shopping Centre Constantia Park

PRETORIA Tel: 982043 Telex: 32163 CH.E

Hewlett-Packard So Africa (Pty.) Ltd. Private Bag Wendywood

SANDTON 2144 Tel: 802-5111, 802-5125 Telex: 4-20877

Cable: HEWPACK Johannesburg A.CH,CM,CS,E,MS,P

SPAIN

Hewlett-Packard Española S.A. Calle Entenza, 321 E-BARCELONA 29 Tel: 322.24.51, 321.73.54 Telex: 52603 hpbee A,CH,CS,E,MS,P

Hewlett-Packard Española S.A. Calle San Vicente S/No Edificio Albia II E-BILBAO 1 Tel: 423.83.06 A.CH.E.MS

Hewlett-Packard Española S.A. Crta, de la Coruña, Km. 16, 400 Las Rozas E-MADRID Tel: (1) 637.00.11

Hewlett-Packard Española S.A. Avda. S. Francisco Javier, S/no Planta 10. Edificio Sevilla 2, E-SEVILLA 5 Tel: 64.44.54

Telex: 72933 A,CS,MS,P

CH,CS,M

Hewlett-Packard Española S.A. Calle Ramon Gordillo, 1 (Entlo.3) E-VALENCIA 10 Tel: 361-1354 CH.P

SWEDEN Hewlett-Packard Sverige AB

Sunnanvagen 14K S-22226 LUND Tel: (046) 13-69-79 Telex: (854) 17886 (via Spånga office) CH

Hewlett-Packard Sverige AB Vastra Vintergatan 9 S-70344 OREBRO Tel: (19) 10-48-80 Telex: (854) 17886 (via Spånga office)

Hewlett-Packard Sverige AB Skalholtsgatan 9, Kista Box 19 S-16393 SPÅNGA Tel: (08) 750-2000 Telex: (854) 17886 A,CH,CM,CS,E,MS,P

Hewlett-Packard Sverige AB Frötallisgatan 30 S-42132 VÄSTRA-FRÖLUNDA Tel: (031) 49-09-50 Telex: (854) 17886 (via Spånga office) CH.E.P

SWITZERLAND

Hewlett-Packard (Schweiz) AG Clarastrasse 12 CH-4058 BASLE Tel: (61) 33-59-20

Hewlett-Packard (Schweiz) AG 7. rue du Bois-du-Lan Case Postale 365 CH-1217 MEYRIN 1 Tel: (0041) 22-83-11-11 Telex:27333 HPAG CH CH.CM.CS

Hewlett-Packard (Schweiz) AG Allmend 2 CH-8967 WIDEN Tel: (0041) 57 31 21 11 Telex: 53933 hpag ch Cable: HPAG CH A,CH,CM,CS,E,MS,P

SYRIA

General Electronic Inc. Nuri Basha P.O. Box 5781 DAMASCUS Tel: 33-24-87 Telex: 11216 ITIKAL SY Cable: ELECTROBOR DAMASCUS

Middle East Electronics Place Azmé P.O.Box 2308 DAMASCUS Tel: 334592 Telex: 11304 SATACO SY

Hewlett-Packard Far East Ltd.

2/F 68-2, Chung Cheng 3rd Road

TAIWAN

KAOHSIUNG

Kaohsiung Office

Tel: 241-2318, 261-3253 CH.CS.E Hewlett-Packard Far East Ltd. Taiwan Branch 5th Floor 205 Tun Hwa North Road Tel: (02) 712-0404 Cable:HEWPACK Taipei A.CH,CM,CS,E,M,P Ing Lih Trading Co. 3rd Floor, 7 Jen-Ai Road, Sec. 2 TAIPEI 100 Tel: (02) 3948191 Cable: INGLIH TAIPEI

THAILAND

l Inimesa 30 Patpong Ave., Suriwong RANGKOK 5 Tel: 235-5727 Telex: 84439 Simonco TH Cable: UNIMESA Bangkok A CH CS E M Bangkok Business Equipment Ltd. 5/5-6 Dejo Road

BANGKOK Tel: 234-8670, 234-8671 Telex: 87669-BEQUIPT TH Cable: BUSIQUIPT Bangkok

TRINIDAD & TOBAGO

Caribbean Telecoms Ltd. 50/A Jerningham Avenue P.O. Box 732 PORT-OF-SPAIN Tel: 62-44213, 62-44214 Telex: 235,272 HUGCO WG CMEMP

TUNISIA

Tunisie Flectronique 31 Avenue de la Liberte TUNIS Tel: 280-144 FP Corema 1 ter. Av. de Carthage TUNIS Tel: 253-821 Telex: 12319 CABAM TN

TURKEY

Teknim Company Ltd. Iran Caddesi No. 7 Kavaklidere, ANKARA Tel: 275800 Telex: 42155 TKNM TR FMA Medina Eldem Sokak No.41/6 Yuksel Caddesi ANKARA Tel: 175 622

UNITED ARAB EMIRATES Emitac Ltd.

P.O. Box 1641 SHARJAH Tel: 354121, 354123 Telex: 68 136 Emitac Sh CH.CS.E.M.P

UNITED KINGDOM

GREAT BRITAIN Hewlett-Packard Ltd. Trafalgar House Navigation Road ALTRINCHAM Chesire WA14 1NU Tel: (061) 928-6422 Telex: 668068 A.CH.CS.E.M Hewlett-Packard Ltd. Oakfield House, Oakfield Grove Clifton BRISTOL BS8 2BN, Avon Tel: (027) 38606 Telex: 444302 CH,M,P

Arranged alphabetically by country

5 (hp)

GREAT BRITAIN (Cont'd)

Hewlett-Packard Ltd. Fourier House 257-263 High Street LONDON COUNEY Herts., AL2 1HA, St. Albans Tel: (0727) 24400 Telex: 1-8952716 CH,CS,E

Hewlett-Packard Ltd. Quadrangle 106-118 Station Road REDHILL, Surrey Tel: (0737) 68655 Telex: 947234 CH CS F

Hewlett-Packard Ltd. Avon House 435 Stratford Road SHIRLEY, Solihuil West Midlands B90 4BL Tel: (021) 745 8800 Telex: 339105

Hewlett-Packard Ltd. West End House 41 High Street, West End SouthAMPTON Hampshire S03 3DQ Tel: (703) 886767 Telex: 477138

Hewlett-Packard Ltd. King Street Lane WINNERSH, Wokingham Berkshire RG11 5AR Tel: (0734) 784774 Telex: 847178 A,CH,E,M

Hewlett-Packard Ltd. Nine Mile Ride WOKINGHAM Berkshire, 3RG11 3LL Tel: 3446 3100 Telex: 84-88-05 CH,CS,E

NORTHERN IRELAND

Cardiac Services Company 95A Finaghy Road South BELFAST BT 10 OBY Tel: (0232) 625-566 Telex: 747626

SCOTLAND Hewlett-Packard Ltd. SOUTH QUEENSFERRY West Lothian, EH30 9GT Tel: (031) 3311188 Telex: 72682 A,CH,CM,CS,E,M

UNITED STATES

Alabama

Hewlett-Packard Co. P.O. Box 7000 8290 Whitesburg Drive, S.E. HUNTSVILLE, AL 35802 Tel: (205) 830-2000 CH,CM,CS,E,M*

Arizona

Hewlett-Packard Co. 8080 Point Parkway West PHOENIX, AZ 85044 Tel: (602) 273-8000 A,CH,CM,CS,E,MS Hewlett-Packard Co. 2424 East Aragon Road TUCSON. AZ 85706

Tel: (602) 889-4631 CH.E.MS** California

Hewlett-Packard Co. 99 South Hill Dr. 4BRISBANE, CA 94005 Tel: (415) 330-2500 CH,CS

CH,US Hewlett-Packard Co. 7621 Canoga Avenue CANOGA PARK, CA 91304 Tel: (213) 702-8363 A,CH,CS,E,P

Hewlett-Packard Co. P.O. Box 7830 (93747) 5060 E. Clinton Avenue, Suite 102 FRESNO, CA 93727 Tel: (209) 252-9652 CH.CS.MS

Hewlett-Packard Co. P.O. Box 4230 1430 East Orangethorpe FULLERTON, CA 92631 Tel: (714) 870-1000 CH,CM,CS,E,MP Hewlett-Packard Co.

320 S. Kellogg, Suite B GOLETA, CA 93117 Tel: (805) 967-3405

Hewlett-Packard Co. 5400 W. Rosecrans Boulevard LAWNDALE, CA 90260 P.O. Box 92105 LOS ANGELES, CA 90009 Tel: (213) 970-7500 Telex: 910-325-6608 CH.CM.CS.MP

Hewlett-Packard Co. 3200 Hillview Avenue PALO ALTO, CA 94304 Tel: (415) 857-8000 CH,CS,E

Hewlett-Packard Co. P.O. Box 15976 (95813) 4244 So. Market Court, Suite A SACRAMENTO, CA 95834 Tel: (916) 929-7222 A* CH.CS.E.MS

Hewlett-Packard Co. 9606 Aero Drive P.O. Box 23333 SAN DIEGO, CA 92123 Tel: (619) 279-3200 CH.CM.CS.E.MP

Hewlett-Packard Co. 2305 Camino Ramon "C" SAN RAMON, CA 94583 Tel: (415) 838-5900 CH,CS

Hewlett-Packard Co. P.O. Box 4230 Fullerton, CA 92631 363 Brookhollow Drive SANTA ANA, CA 92705 Tel: (714) 641-0977 A,CH,CM,CS,MP Hewlett-Packard Co. 3003 Scott Boulevard SANTA CLARA, CA 95050 Tel: (408) 988-7000 Telex: 910-338-0586 A,CH,CM,CS,E,MP

Hewlett-Packard Co. 5703 Corsa Avenue WESTLAKE VILLAGE, CA 91362 Tel: (213) 706-6800 E*,CH*,CS* Colorado Hewlett-Packard Co. 24 Inverness Place, East ENGLEWOOD, CO 80112

ENGLEWOOD, CO 8011 Tel: (303) 771-3455 Telex: 910-935-0785 A,CH,CM,CS,E,MS

Connecticut

Hewlett-Packard Co. 47 Barnes Industrial Road South P.O. Box 5007 WALLINGFORD, CT 06492 Tel: (203) 265-7801 A.CH.CM.CS.E.MS

Florida

Hewlett-Packard Co. P.O. Box 24210 (33307) 2901 N.W. 62nd Street FORT LAUDERDALE, FL 33309 Tel: (305) 973-2600 CH,CS,E,MP

Hewlett-Packard Co. P.O. Box 13910 6177 Lake Ellenor Drive ORLANDO, FL 32809 Tel: (305) 859-2900 A,CH,CM,CS,E,MS

Hewlett-Packard Co. 5750B N. Hoover Blvd., Suite 123 TAMPA, FL 33614 Tel: (813) 884-3282 A*.CH.CM.CS.E*.M*

Georgia

Hewlett-Packard Co. P.O. Box 105005 30348 ATLANTA,GA 2000 South Park Place ATLANTA, GA 30339 Tel: (404) 955-1500 Telex: 810-766-4890 A,CH,CM,CS,E,MP

Hawaii

Hewlett-Packard Co. Kawaiahao Plaza, Suite 190 567 South King Street HONOLULU, HI 96813 Tel: (808) 526-1555 A.CH.E.MS

Illinois

Hewlett-Packard Co. P.O. Box 1607 304 Eldorado Road BLOOMINGTON, IL 61701 Tel: (309) 662-9411 CH.MS**

Hewlett-Packard Co. 1100 31st Street, Suite 100 DOWNERS GROVE, IL 60515 Tel: (312) 960-5760 CH CS

Hewlett-Packard Co. 5201 Tollview Drive ROLLING MEADOWS, IL. 60008 Tel: (312) 255-9800 Telex: 910-687-1066 A,CH,CM,CS,E.MP

Indiana

Hewlett-Packard Co. P.O. Box 50807 7301 No. Shadeland Avenue INDIANAPOLIS, IN 46250 Tel: (317) 842-1000 A,CH,CM,CS,E,MS lowa

Hewlett-Packard Co. 1776 22nd Street, Suite 1 WEST DES MOINES, IA 50262 Tel: (515) 224-1435 CH,MS** Hewlett-Packard Co. 2415 Heinz Road IOWA CITY, IA 52240 Tel: (319) 351-1020

CH,E*,MS

Hewlett-Packard Co. 7804 East Funston Road Suite 203 WICHITA, KA 67207 Tel: (316) 684-8491

Kentucky

Hewlett-Packard Co. 10300 Linn Station Road Suite 100 LOUISVILLE, KY 40223 Tel: (502) 426-0100 A,CH,CS,MS

Louisiana Hewlett-Packard Co. P.O. Box 1449 KENNER, LA 70063 160 James Drive East ST. ROSE, LA 70087 Tel: (504) 467-4100

A,CH,CS,E,MS Maryland

Hewlett-Packard Co. 3701 Koppers Street BALTIMORE, Md. 21227 Tel: (301) 644-5800 Telex: 710-862-1943 A,CH,CM,CS,E,MS Hewlett-Packard Co. 2 Choke Cherry Road ROCKVILLE, MD 20850 Tel: (301) 948-6370 A,CH,CM,CS,E,MP

Massachusetts Hewlett-Packard Co. 32 Hartwell Avenue LEXINGTON, MA 02173 Tel: (617) 861-8960

A,CH,CM,CS,E,MP

Michigan

Hewlett-Packard Co.
23855 Research Drive
FARMINGTON HILLS, MI 48024
Tel: (313) 476-6400
A,CH,CM,CS,E,MP
Hewlett-Packard Co.
4326 Cascade Road S.E.
GRAND RAPIDS, MI 49506
Tel: (616) 957-1970
CH,CS,MS
Hewlett-Packard Co.
1771 W. Big Beaver Road
TROY, MI 48084
Tel: (313) 643-6474
CH CS

Minnesota Hewlett-Packard Co.

Hewlett-Packard Co. 2025 W. Larpenteur Ave. ST. PAUL, MN 55113 Tel: (612) 644-1100 A,CH,CM,CS,E,MP Missouri

Hewlett-Packard Co. 11131 Colorado Avenue KANSAS CITY, MO 64137 Tel: (816) 763-8000 A,CH,CM,CS,E,MS Hewlett-Packard Co. 13001 Hollenberg Drive

Hewlett-Packard Co. 13001 Hollenberg Drive BRIDGETON, MO 63044 Tel: (314) 344-5100 A,CH,CS,E,MP

Nebraska

Hewlett-Packard 10824 Old Mill Rd., Suite 3 OMAHA, NE 68154 Tel: (402) 334-1813 CM,MS

New Jersey

Hewlett-Packard Co. W120 Century Road PARAMUS, NJ 07652 Tel: (201) 265-5000 A,CH,CM,CS,E,MP Hewlett-Packard Co.

Hewlett-Packard Co. 60 New England Av. West PISCATAWAY, NJ 08854 Tel: (201) 981-1199 A,CH,CM,CS,E

New Mexico

Hewlett-Packard Co. P.O. Box 11634 (87192) 11300 Lomas Blvd.,N.E. ALBUQUERQUE, NM 87112 Tel: (505) 292-1330 CH,CS,E,MS

New York

Hewlett-Packard Co. Computer Drive South ALBANY, NY 12205 Tel: (518) 458-1550 Telex: 710-444-4691 A.CH.E.MS

Hewlett-Packard Co. P.O. Box AC 9600 Main Street CLARENCE, NY 14031 Tel: (716) 759-8621 CH

Hewlett-Packard Co. 200 Cross Keys Office Park FAIRPORT, NY 14450 Tel: (716) 223-9950 CH,CM,CS,E,MS

Hewlett-Packard Co. 7641 Henry Clay Blvd. LIVERPOOL, NY 13088 Tel: (315) 451-1820 A,CH,CM,E,MS

Hewlett-Packard Co. No. 1 Pennsylvania Plaza 55th Floor 34th Street & 8th Avenue MANHATTAN NY 10001 Tel: (212) 971-0800 CH,CS,E*,M*

Hewlett-Packard Co. 250 Westchester Avenue WHITE PLAINS, NY 10604 Tel: (914) 328-0884 CM.CH.CS.E

Hewlett-Packard Co. 3 Crossways Park West WOODBURY, NY 11797 Tel: (516) 921-0300 Telex: 510-221-2183 A,CH,CM,CS,E,MS



Arranged alphabetically by country

UNITED STATES (Cont'd)

North Carolina Hewlett-Packard Co. P.O. Box 26500 (27420) 5605 Roanne Way GREENSBORO, NC 27409 Tel: (919) 852-1800 A,CH,CM,CS,E,MS

Ohio

Hewlett-Packard Co. 9920 Carver Road CINCINNATI, OH 45242 Tel: (513) 891-9870 CH,CS,MS

Hewlett-Packard Co. 16500 Sprague Road CLEVELAND, OH 44130 Tel: (216) 243-7300 A,CH,CM,CS,E,MS

Hewlett-Packard Co. 962 Crupper Ave. COLUMBUS, OH 43229 Tel: (614) 436-1041 CH,CM,CS,E*

Hewlett-Packard Co. P.O. Box 280 330 Progress Rd. DAYTON, OH 45449 Tel: (513) 859-8202 A.CH.CM.E*.MS

Oklahoma

Hewlett-Packard Co. P.O. Box 75609 (73147) 304 N. Meridian, Suite A 3

3 OKLAHOMA CITY, OK 73107 Tel: (405) 946-9499 A*,CH,E*,MS

Hewlett-Packard Co. 3840 S. 103rd E. Avenue Logan Building, Suite 100 TULSA, OK 74145 Tel: (918) 665-3300 A**.CH.CS.M*

Oregon

Hewlett-Packard Co. 9255 S. W. Pioneer Court WILSONVILLE, OR 97070 Tel: (503) 682-8000 A.CH.CS.E* MS

Pennsylvania

Hewlett-Packard Co. 1021 8th Avenue KING OF PRUSSIA, PA 19046 Tel: (215) 265-7000 A,CH,CM,CS,E,MP

Hewlett-Packard Co. 111 Zeła Drive PITTSBURGH, PA 15238 Tel: (412) 782-0400 A,CH,CS,E,MP

South Carolina

Hewlett-Packard Co. P.O. Box 21708 (29221) Brookside Park, Suite 122 1 Harbison Way COLUMBIA, SC 29210 Tel: (803) 732-0400 CH.E.MS

Tennessee

Hewlett-Packard Co. 3070 Directors Row MEMPHIS, TN 38131 Tel: (901) 346-8370 A,CH,MS

Texas

Hewlett-Packard Co. Suite C-110 4171 North Mesa EL PASO, TX 79902 Tel: (915) 533-3555 CH.E*.MS**

Hewlett-Packard Co. P.O. Box 42816 (77042) 10535 Harwin Street HOUSTON, TX 77036 Tel: (713) 776-6400 A,CH,CM,CS,E,MP

Hewlett-Packard Co. P.O. Box 1270 930 E. Campbell Rd. RICHARDSON, TX 75080 Tel: (214) 231-6101 A,CH,CM,CS,E,MP

Hewlett-Packard Co. P.O. Box 32993 (78216) 1020 Central Parkway South SAN ANTONIO, TX 78232 Tel: (512) 494-9336 CH.CS.E.MS

Utah

Hewlett-Packard Co. P.O. Box 26626 (84126) 3530 W. 2100 South SALT LAKE CITY, UT 84119 Tel: (801) 974-1700 A.CH.CS.E.MS

Virginia

Hewlett-Packard Co. P.O. Box 9669 (23228) RICHMOND, Va. 23228 4305 Cox Road GLEN ALLEN, Va. 23060 Tel: (804) 747-7750 A.CH.CS.E.MS

Washington

Hewlett-Packard Co. 15815 S.E. 37th Street BELLEVUE, WA 98006 Tel: (206) 643-4000 A,CH,CM,CS,E,MP Hewlett-Packard Co. Suite A

Suite A 708 North Argonne Road SPOKANE, WA 99206 Tel: (509) 922-7000 CH,CS

West Virginia

Hewlett-Packard Co. P.O. Box 4297 4604 MacCorkle Ave., S.E. CHARLESTON, WV 25304 Tel: (304) 925-0492 A.MS

Wisconsin

Hewlett-Packard Co. 150 S. Sunny Slope Road BROOKFIELD, WI 53005 Tel: (414) 784-8800 A,CH,CS,E*,MP

URUGUAY

Pablo Ferrando S.A.C. e I. Avenida Italia 2877 Casilla de Correo 370 MONTEVIDEO Tel: 80-2586 Telex: Public Booth 901 A.C.M.E.M

VENEZUELA

A.CH.CS.E.MS.P

Hewlett-Packard de Venezuela C.A. 3A Transversal Los Ruices Norte Edificio Segre Apartado 50933 CARACAS 1071 Tel: 239-4133 Telex: 25146 HEWPACK

Hewlett-Packard de Venezuela C.A. Calle-72-Entre 3H Y 3Y, No.3H-40 Edificio Ada-Evelyn, Local B Apartado 2646 MARACAIBO, Estado Zulia Tel: (061) 80.304

C.E*

Hewlett-Packard de Venezuela C.A. Calle Vargas Rondon Edificio Seguros Carabobo, Piso 10 VALENCIA Tel:(041) 51 385

CH,CS,P Colimodio S.A. Este 2 - Sur 21 No. 148 Apartado 1053 CARACAS 1010

CANACAS 1010 Tel: 571-3511 Telex: 21529 COLMODIO

ZIMBABWE

Field Technical Sales 45 Kelvin Road, North P.B. 3458 SALISBURY Tel: 705 231 Telex: 4-122 RH C,E,M,P

HEADQUARTERS OFFICES

If there is no sales office listed for your area, contact one of these headquarters offices.

NORTH/CENTRAL AFRICA

Hewlett-Packard S.A.
7 Rue du Bois-du-Lan
CH-1217 MEYRIN 1, Switzerland
Tel: (022) 83 12 12
Telex: 27835 hpse
Cable: HEWPACKSA Geneve

ASIA

Hewlett-Packard Asia Ltd. 6th Floor, Sun Hung Kai Centre 30 Harbour Rd. G.P.O. Box 795 HONG KONG Tel: 5-832 3211 Telex: 66678 HEWPA HX

Cable: HEWPACK HONG KONG

CANADA Hewlett-Packard (Canada) Ltd. 6877 Goreway Drive MISSISSAUGA, Ontario L4V 1M8 Tel: (416) 678-9430 Telex: 610-492-4246

EASTERN EUROPE

Hewlett-Packard Ges.m.b.h. Lieblgasse 1 P.O.Box 72 A-1222 VIENNA, Austria Tel: (222) 2365110 Telex: 1 3 4425 HEPA A

NORTHERN EUROPE

Hewleti-Packard S.A.
Uilenstede 475
NL-1183 AG AMSTELVEEN
The Netherlands
P.O.Box 999
NL-1180 AZ AMSTELVEEN
The Netherlands
Tel: 20 437771

OTHER EUROPE

Hewlett-Packard S.A.
7 rue du Bois-du-Lan
CH-1217 MEYRIN 1, Switzerland
Tel: (022) 83 1212
Telex: 27835 hpse
Cable: HEWPACKSA Geneve

MEDITERRANEAN AND MIDDLE EAST

Hewlett-Packard S.A.
Mediterranean and Middle East
Operations
Atrina Centre
32 Kifissias Ave.
Maroussi, ATHENS, Greece
Tel: 682 88 11
Telex: 21-6588 HPAT GR
Cable: HEWPACKSA Athens

EASTERN USA

Hewlett-Packard Co. 4 Choke Cherry Road Rockville, MD 20850 Tel: (301) 258-2000

MIDWESTERN USA

Hewlett-Packard Co. 5201 Tollview Drive ROLLING MEADOWS, IL 60008 Tel: (312) 255-9800

SOUTHERN USA

Hewlett-Packard Co. P.O. Box 105005 450 Interstate N. Parkway ATLANTA, GA 30339 Tel: (404) 955-1500

WESTERN USA

Hewlett-Packard Co. 3939 Lankershim Blvd. LOS ANGELES, CA 91604 Tel: (213) 877-1282

OTHER INTERNATIONAL AREAS

Hewlett-Packard Co. Intercontinental Headquarters 3495 Deer Creek Road PALO ALTO, CA 94304 Tel: (415) 857-1501 Telex: 034-8300 Cable: HEWPACK

March 1983 5952-6900

HP distributors are printed in italics.

