

# MICRO DECISION

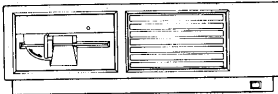
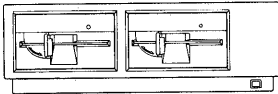
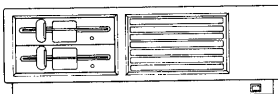
## MICRO DECISION COMPUTER

### Standard Hardware:

64K bytes of RAM  Z80A CPU at 4 MHz  Two RS232C Serial Ports  Floppy disk controller can control up to four 5¼" soft sectored drives  Switching power supply  Dimensions: 16.7" wide, 5.3" high, and 11.3" deep  Weight: MD1 14 lb. 3 oz, MD2 18 lbs., MD3 14 lbs.

### Standard Software:

CP/M 2.2 Operating System  Microsoft BASIC 80  BaZic (compatible with NorthStar BASIC)  WordStar word processor  LogiCalc spreadsheet  Correct-It spelling checker.

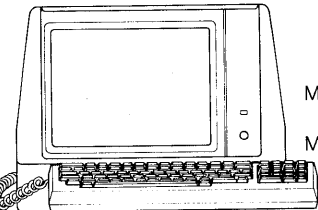
Model Number	Description	Price
	MD1 Includes Standard Hardware & Software, and ONE SINGLE SIDED 5¼" floppy disk drive with 40 tracks per side, 200K bytes formatted total.	\$1195
	MD2 Includes Standard Hardware & Software, and TWO SINGLE SIDED 5¼" floppy disk drives with 40 tracks per side, 400K bytes formatted total.	\$1545
	MD3 Includes Standard Hardware & Software, plus Personal Pearl data base manager, and TWO DOUBLE SIDED 5¼" floppy disk drives with 40 tracks per side, 768K bytes formatted total.  (Note: MD3 available February 15, 1983)	\$1695

220V 50Hz Micro Decisions are available. Add letter "E" to part number, e.g. MD3 E

## OPTIONAL TERMINAL (sold only with computer system)

### Terminal Specifications:

12" P-31 green phosphor non-glare screen  80 characters X 24 lines with 25th status line  Detachable keyboard with 92 keys including 14 key numeric keypad and 7 function keys  Insert/delete/erase functions  Reverse video, dim, blink and underline attributes  Protected fields displayed in dual intensity  Dimensions: 16.5" wide, 21.3" deep (including keyboard), 12.2" high  Weight: 24.2 lbs.

Model Number	Description	Price
	MDT20 Beige	\$595
	MDT50 Black	\$595
	Choice of terminal subject to availability	

220V 50Hz Terminals are available. Add letter "E" to part number, e.g. MDT50 E

Prices and specifications subject to change without notice.

CP/M is a registered trademark of Digital Research  Microsoft is a registered trademark of the Microsoft Corp  WordStar is a registered trademark of Micropro  LogiCalc is a registered trademark of Software Products International  BaZic is a registered trademark of MicroMike's  Personal Pearl is a registered trademark of Relational Systems International  Correct-It, Micronix Operating System, Decision 1, & Micro Decision are Trade Marks of Morrow Designs

**MORROW DESIGNS**   
600 McCormick Street  San Leandro  California  94577

SALES OFFICE  
(415) 430 1970

# DECISION 1

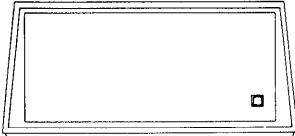
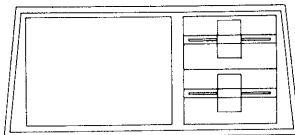
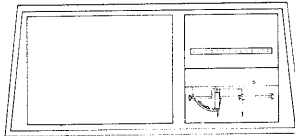
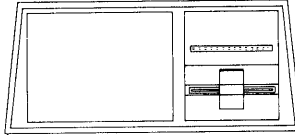
## DECISION 1 COMPUTER

### Standard Hardware:

S-100 (IEEE 696) 14-slot motherboard  Z80 CPU  Real time CMOS clock/calendar chip and programmable interrupt controller  Three RS232C serial ports and one parallel daisy printer port  64K high speed static RAM (expandable up to 1 megabyte)  Dimensions: 19" wide, 20.5" deep, and 8.5" high  Weight: 36 lbs.

### Standard Software:

CP/M 2.2 operating system  Microsoft BASIC 80

Model Number	Description	Price
	D1 Includes: standard hardware listed above	\$2395
	D2 Includes standard hardware and standard software listed above. Plus two 5 1/4" double sided 48 TPI floppy disks (800K bytes formatted) and a DMA floppy disk controller.	\$3495
	D2A Includes standard hardware and standard software listed above. Plus one 5 1/4" single sided 48 TPI floppy disk (200K bytes formatted) with DMA floppy controller, and one 5 megabyte 5 1/4" hard disk with DMA hard disk controller	\$3995
	D3A One 5 megabyte 5 1/4" hard disk	\$4400
	D3C One 16 megabyte 5 1/4" hard disk	\$5400

220V 50Hz Decisions are available. Add letter "E" to part number, e.g. D3A E


## OPTIONAL MULTI-USER UPGRADE KIT & SOFTWARE

Model Number	Description	Price
MOS	Multi-user upgrade kit (for Decision 1 systems with a hard disk) including: three 64K high speed static RAM boards and the Micronix Operating System	\$1995
MOS+	Upgrade kit with Whitesmith's C & Pascal	\$2495

## OPTIONAL TERMINAL (sold only with computer system)

### Terminal Specifications:

12" P-31 green phosphor non-glare screen  80 characters X 24 lines with 25th status line  Detachable keyboard with 92 keys including 14 key numeric keypad and 7 function keys  Insert/delete/erase functions  Reverse video, dim, blink and underline attributes  Protected fields displayed in dual intensity  Dimensions: 16.5" wide, 21.3" deep (including keyboard), 12.2" high  Weight: 24.2 lbs.

Model Number	Description	Price
	MDT20 Beige	\$595
	MDT50 Black	\$595
	Choice of terminal subject to availability	

220V 50Hz Terminals are available. Add letter "E" to part number, e.g. MDT20 E

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Our service goal is to turn-around any customer repair within an average of 30 days from date of receipt at our docks. For prompt handling you may request EXPEDITE SERVICE. For a \$75.00 EXPEDITE fee shipment will be made UPS/Blue and a 2-5 day turn-around time is our service goal. The expedite fee is applicable to warranty and non-warranty repairs.

## NOTES:

1. Customers are to request RETURN MATERIAL AUTHORIZATION numbers (RMA) prior to return of any material to Morrow Designs. This number will be used to track repairs through out our operations. PLEASE include the RMA # on shipment paperwork and clearly lettered on the outside of the shipping cartons for ease of identification. Shipments received without RMA #'s will be delayed in processing.
2. Morrow Designs WILL NOT accept any shipments on our docks by dealers or end-users with collect delivery charges.
3. On items returned for credit, please include a copy of your original Morrow invoice or reference the invoice number on your paperwork.
4. Prices are subject to change without notice.
5. Fixed fee floppy repair prices exclude cost of parts that cost more than ten dollars (\$10). Customers will be advised of excess replacement parts costs prior to completing work.
6. Modification on Morrow Design boards voids warranty and repairs will be accomplished on a Times and Material basis.

Micro Decision  
Spare Parts Price List

The spare parts prices for the Micro Decision are noted below. Dealer computer discounts are applicable.

<u>Description</u>	<u>Retail Price</u>
Central P.C.	\$595
Power Supply	\$225
Bare Drive	\$325
Mounting Bracket	\$ 35
Reset Switch	\$ 15
Drive Cable	\$ 25
LED with Cable	\$ 25
LED	\$ 10

Dealers may request repair parts on an exchange basis. To qualify for exchange, the dealer must get an RMA number from customer service and return the defective part. Upon receipt of the defective part a replacement carrying a 90 day warranty will be sent to the dealer at the standard fixed exchange rate for that item. Turn around time after receipt on our dock for the exchange program is 10 days. Modified or physically damaged parts cannot be exchanged.

<u>Description</u>	<u>Exchange Price</u>
Central P.C.	\$225.00
Power Supply	\$ 85.00
Bare Drive	\$150.00

## REPAIR PRICE LIST

PERIPHERAL ITEM DESCRIPTION	PRICE	
Floppy Repairs		
200's	\$100	This basic service includes cleaning, alignment, testing, all minor repair and QA report. See notes.
800's	\$145	
850's	\$145	
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M-5's	\$375	
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M-10's & M-20's Drive Electronics Repair		
CQBM / CQEM / CNMM PCB	\$435	
HPZM PCB	\$195	
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Head Disk M-10 Assembly	\$600	
Head Disk M-20 Assembly	\$700	
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Head Disk Assembly M-26	\$650	
Drive Electronics M-26	\$225	*(Only if Morrow can repair by exchange, subject to stock on hand)
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COMPUTER ITEM DESCRIPTION		
S-100 Card	\$ 75	
CP/M Software Re-make	\$ 25	
Micronix Software Re-make	\$ 95	
CP/M 2.2	\$250	
CP/M Change 1.4 to 2.2	\$ 50	
INSTALL 8"	\$ 20	
INSTALL (NORTHSTAR)	\$ 50	
Relocation Package (8C)	\$ 30	
EPROM (DJ2)	\$ 20	
PROM (8C)	\$ 20	
PAL (Multi-I/O)	\$ 25	
Micro Decision	\$275	
Micro Decision Power Supply	\$ 75	
Decision One Wunderbus	\$235	
Decision One Power Supply	\$125	
**Minimum Small Parts Order	\$ 50	

# NOTICE: To set up terminal

1) Turn terminal on. 2) Press SET UP key. 3) Enter the following code at bottom of screen. Press ← and → keys for direction. Press ↑ key to change status. Once all status boxes have been entered, press save.

