

MEGA-CUE

PRODUCTION COST ESTIMATE

The inclosed cost estimate is for what we consider a standard MEGA-CUE System. Included in this system are these features:

-Two Floppy Disk Drives.
-Ten Floppy Diskettes.
-Two CRT displays (Although output for 4 is provided).
-Capability of controlling up to 1000 channels and memorizing 1000 cues.
-All of the features of MEGA-CUE.
-Analog conversion card rack capable of holding 20 cards.

The prices stated indicate first, the cost in parts to build just one system (buying in singles quantities), and secondly, the cost in parts cost/unit to build 25 units (thus ordering parts in greater quantities). The prices are fairly accurate since we have recently ordered these parts ourselves.

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Quantity	Item	Supplier	Cost \$ Qty. of 1	Cost \$ Qty. of 25
2	Flexible Disk Drives	Shugart Associates	1220.00	1060.00
2	Composite Video Monitors	Motorola	300.00	270.00
10	Diskettes #2305830	IBM	80.00	60.00
3	50 conductor conn.	3M	12.60	10.00
2	Power Supply Conn.	Molex	1.00	.50
3	Printed Circuit Boards S2-12125	Kepto Circuit Sys.	33.00	30.00
2 m.	50 Conductor Flat Cable	3M	6.00	6.00
1	4 m Power Cord	Cramer	3.50	3.00
1	15A Circuit Breaker	Air Flight	7.50	6.00
1	Fan #SU21A	Rotron	15.60	13.00
4	UHF Conn. #83-1R	Amphenol	2.72	1.88
8	UHF Plug #83-750	Amphenol	10.72	7.36
1	BNC Conn. #31-221	Amphenol	.84	.66
2	BNC Plug #31-432	Amphenol	1.56	1.56
1	20A SSR	Opto	12.00	8.00
2	5A Regulators	Active Electronics	14.40	13.40
2	1A Reg.	Active Elec.	2.40	2.00
1	Transformer	Cramer	15.00	12.00
3	5A Bidge Rectifiers	Active Elec.	3.00	2.50
3	Filter Capacitors	Cramer	5.00	4.50
1	Optical Encoder #716	Encoder Products Co.	150.00	135.00
1	Mating Conn.	Encoder Products Co.	5.00	5.00

Quantity	Item	Supplier	Cost \$ 1 system	Cost \$ 25 sys.
Ass.	Connectors	3M	20.00	20.00
128	XC209R red LED	James Electronics	12.80	12.80
4	XC556R red LED	James Elec.	.64	.64
20	FND500 Led Displays	Fairchild	10.00	10.00
16	4A12 BAA11 Switch	Micro-Switch	54.10	40.00
2	4A11 BAA11 Sw.	Micro-Switch	9.70	5.00
4	8C1041 Sw.	Micro-Switch	11.60	10.00
1	12PX1-1 Keyboard	Micro-Switch	23.50	20.00
1	16PX1-1 Keyboard	Micro-Switch	30.00	26.50
1	Fader Wheel Assembly	(In shop)	50.00	40.00
1	Automotive Key-Switch	5.00	5.00
Ass.	Materials for Box	150.00	150.00
Ass.	Electronics for CPU Board	685.59	490.59
1	Card Rack	Vector	45.00	40.00
1	P.C. Backplane	Kepto Cir.	10.00	10.00
1	P.S. Transformer	Cramer	7.00	7.00
1	25A Bridge	Motorola	3.00	3.00
1	Capacitor	Cramer	4.00	4.00
3	LM340 Regulator	Digi-Key	4.10	4.10
1	BNC Connector #31-221	Amphenol	.84	.66
1	A.C. Power Cord	Cramer	1.25	1.25
1	Circuit Breaker	Air Flight	7.50	7.50
Ass.	Electronics for Analog Control Board	40.32	40.32
TOTALS (For MEGA-CUE and Analog Control Unit).....			\$3155.77	\$2669.31

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48 Channel Analog Card

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Quantity	Item	Supplier	Cost \$
13	TLO84 BI-FET Quad OP-AMP	Active Elec.	15.60
1	LM340-t Regulator	Digi-Key	1.25
6	CD4051 Analog Mux	Active Elec.	7.20
48	Disk Capacitors	Digi-Key	1.92
96	Diodes	Digi-Key	3.84
96	Resistors	Digi-Key	1.73
1	Transistor	James Elec.	.40
1	6" x 12" P.C. board	Kepto Cir.	5.00
1	10 Cond. Conn.	3M	.50

TOTAL \$ 37.44

Interconnection Parts

1	50 Cond. Connector	3M	4.20
10'	50 Cond. Flat Cable	3M	10.00

TOTAL (Interconnections for 48 Channels)..... \$ 14.20

TOTAL COST for 48 CHANNELS \$ 51.64

TOTAL COST PER CHANNEL \$ 1.07