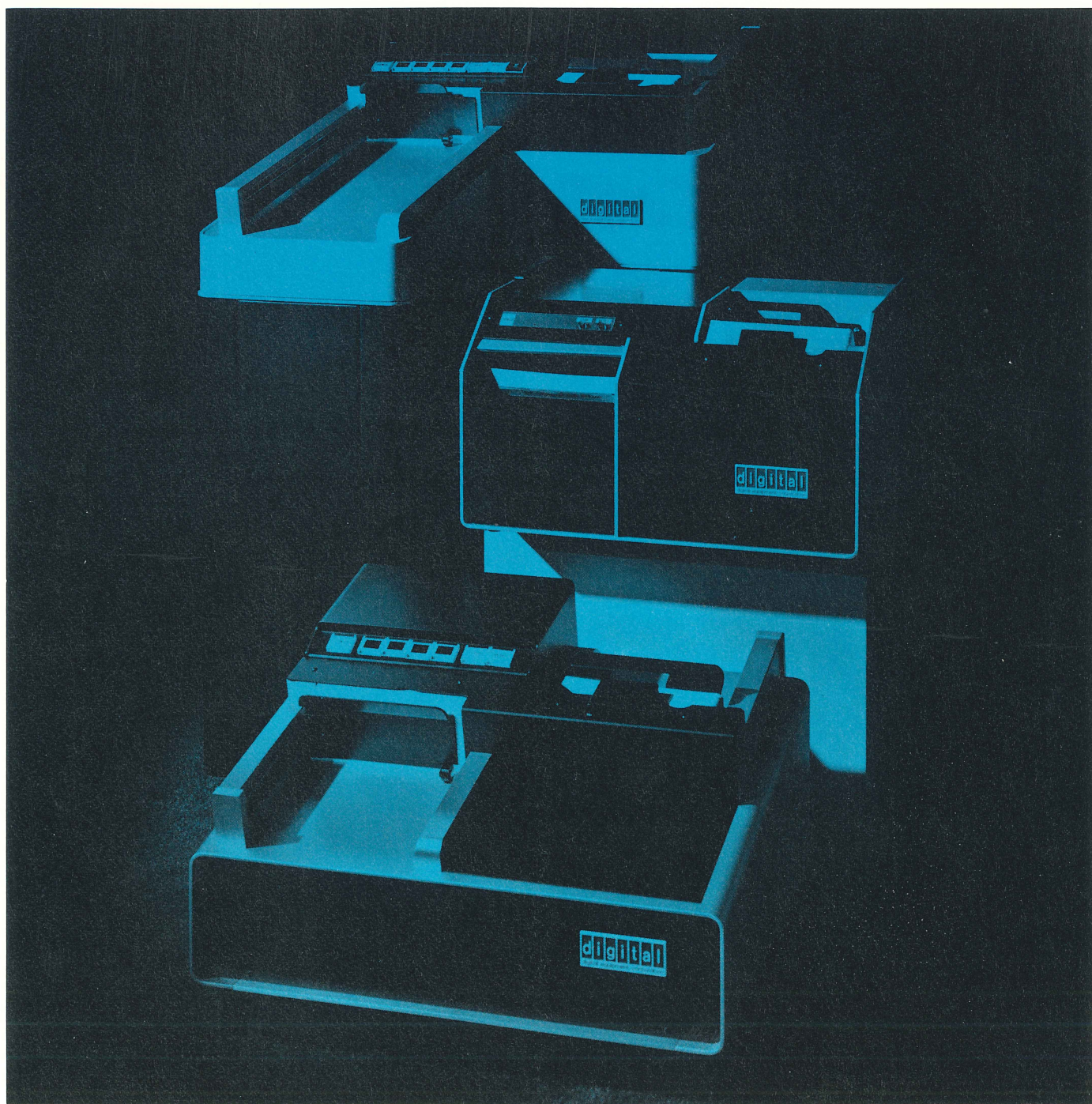


DIGITAL EQUIPMENT CORPORATION

decsystem10

OPTION BULLETIN

CR10 SERIES CARD READERS CR10E, CR10D, CR10F



digital

FEATURES

- Three new trouble-free card readers
- 1200, 1000, and 300 cpm rates
- "Riffle air" feature separates cards-minimizes effects of card damage and humidity
- Advanced design vacuum picker prevents double picking
- Reliable diode/phototransistor read station
- Cards can be loaded or unloaded while reader is operating
- Automatic reader shutdown is optional
- Reader operation is quiet

CR10SERIES CARD READERS CR10E, CR10D, CR10F

A new series of low cost card readers for DECsystem-10 are rated and designed to meet varying throughput requirements and provide reliable, quiet, trouble-free operation. The card readers accept 80-column EAI standard cards.

For fast throughput, the user can choose the console model CR10E which processes 1200 cards per minute or the table model CR10D which processes 1000 cards per minute. The CR10F card reader is a lower cost table model which operates at a lower speed (300 cpm), but utilizes the same excellent features as the high throughput models.

Reader design helps prevent card jams and keeps card wear to a minimum. The readers also have a high tolerance to cards that have been subjected to high humidity or to rough handling and are worn, nicked, warped, bent, folded or otherwise damaged.

To keep cards from sticking together, the readers use a special "riffle air" feature. The bottom half inch of cards in the input hopper is subjected to a stream of air which

separates the cards and air cushions them from the deck and from each other. This action unsticks those cards attracted electrostatically, and loosens those cards attached through torn webs or hole locking.

It also separates cards that are swollen and stuck from excess humidity.

Cards entering the reader are selected through an advanced-design vacuum picker. The picker and its associated throat block prevent the unit from double picking, so that cards that have been stapled or taped together (unless such taping is on the leading edge) will not enter the card track. To minimize the chances of jamming, the card track is short (less than four inches) so that only one card at a time is in motion.

The "riffle air" and vacuum picker design features greatly extend card life. Stoppages are also reduced since the reader automatically tries six times before it determines that a card cannot be picked.

The read station of the card readers uses infrared light-emitting diodes as its light source and phototransistors as its sensors to provide complete reliability. No adjustments are required during the ten-year life expectancy of the diodes. Traditional incandescent sources, on the other hand, require continual adjustment with age. Since the readers require minimum mechanical adjustments and no electronic adjustments, reader availability is high and downtime for maintenance is minimized.

Operation is flexible. Cards can be loaded and unloaded while the reader is operating. For operator convenience, a switch can be set to provide system blower shutdown or continual running after the last card has been read. Automatic shutdown reduces computer room noise level, and also informs the operator that the card hopper is empty.

CARD READER SPECIFICATIONS

	CR10E CONSOLE	CR10D TABLE TOP	CR10F TABLE TOP
Reading Rate (cpm)	1200	1000	300
Input Hopper Capacity (cards)	2,200—2,300*	950—1,000*	550—600*
Output Hopper Capacity (cards)	2,200—2,300*	950—1,000*	550—600*
Size Envelope (H x W x D)			
inches	42 x 25 x 40	17 x 24 x 19	13 x 20 x 15
centimeters	107 x 64 x 102	43 x 61 x 48	33 x 20 x 38
Weight (max.)			
pounds	300	100	70
kilograms	660	220	154
Power Consumption (VA)			
starting	3000	1500	1500
running	500	460	460
Heat Dissipation			
BTU/hour	1900	1600	1600

* Depending on card stock