

ACP-100

Desk Top Optical Mark Reader

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- Keyless Data Entry
- Reads Up To 1,500 Forms Per Hour
- Graded Index Fiber Read Head
- Portable, Light Weight Design

Chatsworth Data Corporation has been developing and manufacturing optical mark readers since 1971.

The company currently supplies markets as diverse as education, industry, government, beverage, lottery, survey, vote tabulation, securities trading, dating services, and many more.

The ACP-100 was specifically developed to support Point of Sale (POS), Gaming and other commercial data collection applications. The small footprint, lightweight, and portability of this OMR lends itself well for use on retail counters, gaming windows, workstations, etc.

Remark Classic OMR software when packaged with the ACP100 provides an application solution to support the processing of a wide variety forms, statistical reporting, and a powerful export feature supporting over 40 output formats to interface with standard software packages like Access, Excel, dBase, Foxpro, SSPS, and many more.

A software development kit is available for application developers. The kit includes a MS/Visual Basic source code project containing OMR configuration commands, communication interface, mark translation module, and data file output.

The Model ACP-100 Optical Mark Reader is the latest design developed by Chatsworth Data Corporation to support gaming, evaluation, and data collection applications. The ACP (Accessible Card Path) design was specifically developed for use in Gaming/POS applications, incorporating a unique feature which allows easy access to the card path and optic lens for clearing obstructions and performing preventative maintenance on the unit.



Significantly faster than keyboard entry, the ACP-100 reads one side of an input form automatically and without error as it scans and transports data. Once the form has been scanned, the resulting data string is terminated by a carriage return (CR) and is automatically transported to the communication port of the attached computer.

The operator and the speed of the computer control the processing speed of the forms. However, most 11-inch forms can be scanned at a rate of 1,500 to 1,800 forms per hour.

The ACP-100 utilizes "Visible Red" illumination reads black or blue marks made with a ballpoint pen or felt-tip pen as well as pencil, punched and pre-printed marks. Background printing must be in the visible red range. "Infra Red" illumination is available as an option for pencil only marking with colored background printing.

A number of downloadable commands are available to modify the default configuration of the ACP-100 to support a wide variety of form designs and application requirements.

The interface communication is either Asynchronous Serial RS-232C or USB.

The Model ACP-100 is supplied complete with an external Universal Power Supply (100-240V / 47-63Hz), Serial or USB Cable (Macintosh or PC), Operator Guide, Test Cards, and a Utility Software Disk.

CHATSWORTH

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Specifications

Paper Path:

The ACP-100 Reader has a paper path that is easily accessible for clearing jams and cleaning the optic head. A simple hinged connection allows the upper assembly to open for complete access to the paper path

Scan Area:

Reads up to 12 rows at .25 inch centers x 80 mark positions.

Feed Method:

Manual insertion with powered transport
Feed through
Software controlled, eject front or eject rear

Scanning Speed:

20 inches (50.8 cm) per second
Approx. 25-30 cards per minute

Throughput:

Approx. 25-35 cards per minute

Form Size:

3-1/4 inches x 5 inches to 3-1/4 inches x 14 Inches
8.2 cm x 12.7 cm to 8.2 cm x 35.6 cm

Paper Weight:

18 to 100 lb. bond, ledger, index or OCR - .004 inches

Read Technique:

Graded Index fiber, single sided, manual feed

Form Marking (Visible Red Model):

#2 Pencil
Blue or black ball point pen
Blue or black felt-tip pen
Pre-printed marks

Interface/Baud Rate:

RS-232c asynchronous (PC Serial) 300-38400 Baud

Microprocessor:

Motorola 68HC11

OMR Status/Version

Dynamically request an 8 bit status byte or EPROM version from the OMR

Data Flow Control:

Utilizes XON/XOFF to control the flow of data from the OMR to the application program

Data Output:

Binary ASCII Values

Form Marking (Infrared Model Option):

#2 Pencil
Pre-printed marks

Timing Track Selection:

Select Top (right) / Bottom (left) for the location of the timing track

Timing Track Alignment

In-Line (data mark area between leading and trailing edge of timing mark.

Dimensions:

5.28 inches wide x 2.394 inches high x 5.284 inches long
134.21 mm wide x 82.93 mm high x 134.21 mm long

Power:

Universal power adapter
100 - 240 VAC 47 - 63 Hz

Operating Conditions:

41 degrees to 113 degrees Fahrenheit
5 degrees to 45 degrees Centigrade
30% to 80% humidity, non-condensing

Weight:

2.5 lbs (1.1kg) - Shipping Weight 3 lbs (1.4kg)

Certification:

UL, FCC, CE, TUV for OMR and power adapter

OMR-Forms

Form design and printing are an integral part of developing and implementing a successful application. The Chatsworth Data ACP-100 allows flexibility in form design and construction. Our design department is available to assist in developing custom forms or in recommending printers to assist you in design and production.

Full-page forms are used by simply placing a microperf 3 1/4 inches from the right edge of the form leaving the left side of the form available for questions, instructions, etc.

MEGA 9 OMR form with a grid of bubbles for marking answers. The form includes a header with 'MEGA 9' and 'LOTERIAS CAIXA' logos, a name field, a course selection field, and an answer grid. The grid has columns for questions 01-48 and rows for answers A, B, C, D, E. A 'ANSWERS' key is provided at the bottom of the grid.

If you prefer to produce your own forms, a manual which contains complete specifications for design and production, is available.

Design can be as simple as a single cut card or as complex as a booklet with multiple double-sided forms.

Evaluation Form for Healthcare Improvement. The form includes a header with 'Institute for Healthcare Improvement' and 'LONG ISLAND UNIVERSITY' logos, a marking instructions section, and a grid of bubbles for marking responses. The grid has columns for questions 1-30 and rows for responses A, B, C, D, E. A 'Thank You!' message is at the bottom.