

# ACP-200 & 216

## 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



The Model ACP-200 Optical Mark Reader is the latest design developed by Chatsworth Data to support gaming, evaluation, and data collection applications. The ACP (Accessible Card Path) design was specifically developed for use in Gaming/POS applications with a jam free feed path and, incorporates 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-200 reads one side of an input form, *inserted in either orientation*, automatically and without error as it transports, and scans the data. Once the form has been scanned, the resulting data string is automatically transmitted to the communication port of the attached computer. Utilizing a powerful command set allows the end-user to easily program the output data format.

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-200 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.

Two Command Sets are available to modify the default configuration of the ACP-200 to support a wide variety of form layouts and application requirements, one set for Gaming applications, and one for Commercial applications.

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

The Model ACP-200 is supplied complete with an external Universal Power Supply (100-240V / 47-63Hz), Serial or USB Cable, Operator Guide, and Test Cards.

The durable design, simplicity of use, and versatility of the ACP-200 makes it an ideal device for a wide variety of data gathering applications.

*The ACP-200 was developed as an alternative to the ACP-100 when the applications requires more flexibility and processing capabilities than can be supported by the ACP-100.*

#### **ACP-200 Advantages:**

- **Twice the Scan Rate (200 dpi) which will support the detection of narrower marks**
- **12K bytes of Ram vs 512 bytes on the ACP-100, this allows full data capture providing consistent output when the form is inserted from either end.**
- **The additional Ram also makes it possible to incorporate many types of printed receipts to be read.**
- **Available programmable memory has been expanded from 64K bytes external to 256K bytes (flash) to provide flexibility for custom program features.**
- **A more powerful dual command set allows the end-user more control over the configuration and data output formats.**

# CHATSWORTH

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## Specifications

- Paper Path:**  
The ACP-200 series 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
- Scan Area:**  
Reads up to 12 rows at .25 inch centers x 80 mark positions.
- Optional 14 rows at 5mm spacing (ACP-216)**
- Feed Method:**  
Manual insertion with powered transport  
Feed through or auto reciprocate  
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
- From Marking (Visible Red):**  
#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) or optional USB (Universal Serial Bus)
- OMR Status/Version/Serial Num.**  
Dynamically request a 7 bit status byte or Firmware/serial number of 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 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 or Offset (data between timing marks)
- 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)
- Calibraton:**  
Re-calibration mode via command set.
- Certifications:** TUV, FCC, CE

## OMR-Forms

Form design and printing are an integral part of developing and implementing a successful application. The Chatsworth Data ACP-200 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.



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.

