The "Smart" Wand
Model MSH-220/230/240

Features

♦ *Internal decoder and interface*

♦ *Auto-discriminates among major bar code symbologies*

♦ *Optional LED indicator light; optional On/Off switch*

♦ *Entirely replaceable ruby ball tip & cable*

♦ *Bar code menu programmable*

Built-In Decoder
The MSH-220/230/240 "Smart" Wand has a built in decoder which eliminates the need for a separate decoder box. It is simple to program to match your specific application. Available with an assortment of connectors, Opticon wands may be configured for use with PC or laptop (RS232 only) computers.

Easy to Maintain
The MSH-220/230/240 has a durable ruby ball tip and rugged cable construction. Easy to service, the wand tip and cable can be removed and replaced without any special tooling. The MSH-220/230/240's versatile design also reads a wide range of bar codes, including marginal quality dot matrix labels in direct sunlight or under strong fluorescent lighting.

The Bottom Line
The competitively priced MSH-220/230/240 eliminates the cost and clutter of a separate decoder box!

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TECHNICAL DATA

Optical

Illumination Wavelength	Red, λ = 660 nm
Resolution	5 mil (min.)
Tilt Angle	35° max.
Depth of Field	Contact scanner
Print Contrast Ratio	0.35 min.
Scan Velocity	2 to 60 inches/second
Ambient Light Rejection	100 kilolux sunlight; 2 kilolux fluorescent

Electrical

Supply Voltage	4.5 to 5.5 VDC
Operating Current	Less than 90 mA
Standby Current	Less than 20 mA

Environmental

Temperature	
Operating	0 to +49° C (+32 to +120º F)
Storage	-9 to +71° C (+15 to +160° F)
Operating Humidity	up to 90% non-condensing

Physical

Case Material	Polycarbonate
Dimensions	159 x 32 x 19 mm (6.25 x 1.25 x 0.75 in)
Weight	85 g (3 oz.)
Tip	Synthetic ruby ball

Accessories

Part Number	Description
28-WAND2-01	Desktop stand
61-MSH02-01	Ruby ball wand tip replacement
32-00532-02	Power Supply; 120V AC to 5V DC
41-PAT06-01	Patch Cable; DB25M to DB9F w/5V Connector
41-PAT07-01	Patch Cable; DB25M to DB25F w/5V Connector
41-W0001-01	Y Cable /AT
41-W0002-01	Y Cable /PS2
25-WEDGE-04	Manual /Wedge
25-MSH23-01	Manual /RS232

Warranty

Five (5) years, including parts & workmanship. Extended service contracts available.

Technical Support / Sales

Opticon's experienced, well trained technical staff are available to answer questions and assist you in every way possible in support of our products. Call today to find out how the scanner can be adapted to your design: **(800) 636-0090,** or visit our web site at: ***www.opticonUSA.com***

Standard Pin-outs

RS232C (DB25F)

Pin	Function
1	FGnd
2	RX
3	TX
4	CTS
5	RTS
7	SGND
25	+5V

Wedge (DB9M)

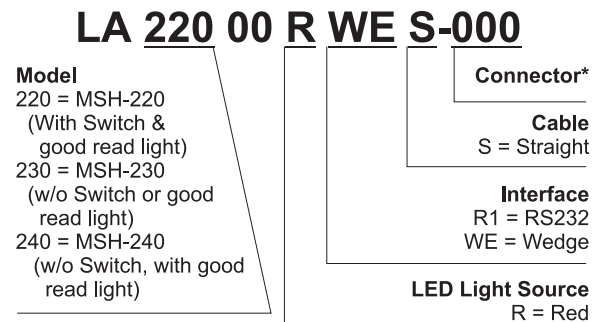| Pin	Function
1	SGnd
2	FGnd
3	+5V
5	CP CK
6	KB CK
7	KB DA
9	CP DA

Decodable Symbologies

WPC: EAN, JAN, UPC
Code 39
Standard 2of5
Interleaved 2of5
Code 128
Code 93
MSI/Plessey

Interface Options

RS232C	Asynchronous Serial Output
WEDGE	Keyboard Emulation

Ordering Information

LA 220 00 R WE S-000

Model
220 = MSH-220 (With Switch & good read light)
230 = MSH-230 (w/o Switch or good read light)
240 = MSH-240 (w/o Switch, with good read light)

Connector*

Cable
S = Straight

Interface
R1 = RS232
WE = Wedge

LED Light Source
R = Red

* Ask our customer service department for assistance in selecting the connector that best suits your needs.

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