



**Laser-Scanner**














**2D-Scanner CMOS Kamera**

	hl40	hl41	hl42	hk80	hk81	hk82
Optical characteristics	Laser diode VLD			CMOS Video Chip		
Wave length/Infrared viewable nm	650			650 (630 target stream)		
Scanning system	Vibration reflector			1024 x 1280 CMOS Sensor		
Scans/s	100			-		
Printing contrast (PCS) min. %	45			25 (linear) / 35 (2D)		
Least resolution mil/mm	6 / 0,15			1024 x 640 optically		
Range mm	330			508		
Inclination in grade	+/- 59			+/- 60		
Angle of rotation in grade	+/- 75			+/- 60		
Ambient light up to LUX	50.000			96.890		
<b>Linear Barcodes</b>						
Code 39, 93, 128, EAN 8, 13, 128						
Interleaved 2/5, UPC A, E	■			■		
Codabar	■			■		
IATA, Industrial 2/5, Matrix 2/5	■					
JAN 8, 13	■			■		
ISBN, ISSN	■					
S-Code	■					
<b>2D Barcodes and Fonts</b>						
Maxicode, MicroPDF, QR Code				■		
Data Matrix, Aztec, GoCode				■		
PDF 417				■		
UCC Composite				■		
<b>Control/Test</b>						
Green LED by decoding	■			■		
Different tones for decoding and malfunction message	■			■		
Different tones for transmission to the base station				■ with BlueTooth®		
<b>Interfaces</b>						
Keyboard PS/2			■			■
USB	■			■		
Serial RS 232			■			
with power supply 230 Volt ~/50 Hz				□		
Bluetooth						■
<b>Electronics</b>						
Power supply VDC	4,5 up to 5,5			5		
Current drain Operation/5 VDC mA	50			110		
Current drain standby mA	10			28		
Operating time				3000 Scans		
<b>Ambient conditions</b>						
Operating temperature in °C	5 up to 50			0 up to 40		
Storage temperature in °C	-20 up to 60			-20 up to 60		
Humidity not condensing in %	20 up to 80			0 up to 95		
Height of fall in m	1,5			2		
Laser protection class	Laser Class 1			Class 2 (target stream)		
Safety regulations	CE			CE, FCC		
Equivalent protection class	IP 42			IP 97		
<b>Dimensions and Weight</b>						
Height mm	159			97		
Width mm	57			46		
Depth mm	32			109		
Weight (ex cable) g	90			130		

■ Standard □ Option

# Delivery program CCD and Laser Scanner

Part-No.	Description	Part-No.	Description
	<b>5570785</b> Laser Scanner hl40 USB Shipment: Laser Scanner hl30 USB connector cabel USB, Stand, Programming manuel		<b>5570790</b> 2D-Scanner hk80 USB Shipment: 2D-Scanner hk80 Battery LiON 1300 mAH
	<b>5570786</b> Laser Scanner hl41 RS232 Shipment: Laser Scanner hl31 RS232 Connector cabel RS232 9-polig, Stand, Power supply, Programming manuel		<b>5570791</b> Connector cable RS232 for 2D-Scanner hk80
	<b>5570787</b> Laser Scanner hl42 PS/2 Shipment: Laser Scanner hl32 Keyboard, Y-Cabel Keyboard PS/2, Stand, Programming manuel		<b>5570792</b> Power supply for connector cable RS232 for 2D-Scanner hk80
			<b>5570795</b> 2D-Scanner hk81 PS2 including battery
			<b>5570796</b> Connector cabel PS2 for hk81
			<b>5570797</b> 2D-Scanner hk82 BlueTooth, including battery
		no picture	<b>5570799</b> USB Dongle hk82 BlueTooth
		no picture	<b>5570798</b> Scanner holder for hk80 / hk81 / hk82
			<b>5570793</b> Spare battery LiON 1300 mAH for 2D-Scanner hk80 / hk81 / hk82
			<b>5570794</b> Battery charger for 2D-Scanner hk80 / hk81 / hk82 incl. Power supply

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