

Data sheet

# HELISCAN M



THE IDEA FACTORY!

height:  
185 mm



depth: 35 mm

width: 75 mm

*FULL-SCALE*

**TECHNICAL DATA**

Subject to modifications and amendments.

Display		128 X 64 dots, LC graphic display, backlight
Keypad	Material	Foil ( Polyester 150 µ )
	Layout	21 membrane keys ( alphanumeric )
Sound		Piezo ( Volume control by software )
Real time clock		Year-Month-Day-Hour-Minute-Second / Alarm (2x)
Memory	SRAM	1 MB
	Flash	4 MB ( 1 MB program + 3 MB data )
Processor ( CPU )		M - Core 32 bit ( 2107 ), 29,5 MHz
Radio-technology	GSM - Module (internal)	Wavecom Modem ( 900/1800 MHz ) GPRS
Power consumption	Standby	30 mA ( without backlight, with: 70 mA )
	Receive	40 mA ( without backlight, with: 80 mA )
	Send	200 mA
	Scanner	extra: CCD 180 mA / Laser 110 mA
Operating time ( 100% Akku-Capacity )	Standby	up to 300 hours
	Standard efficiency	depending on application
Scanengine ( CCD )	Light	Red-light optional: Infra-red
	Scan-rate	270 / s
	Reading-distance	max. 49 cm ( depending on barcode )
	Resolution	0,05 cm / 2 mil
	Barcode-sizes	UPC (A+E), EAN, Code 39/11/128, EAN 128, Matrix, Interleaved, Industrial, Standard 2of5, Codabar, Code 93, MSI-Plessey, UK-Plessey, Telepen, CSBT 128
	Ambient light	100.000 Lux
Transponder-Reader	Frequency	125 kHz -standard
	Read only	EM 4002, EM 4102 (40 Bit) EM 4025, EM 4125 (without anticollision) ISO 11784 / 11785 (64 Bit)
	Read & Write	EM 4050, EM 4150, EM 4350 EM 4055 (without anticollision) Hitag 1, Hitag 2 (without Crypto-Mode) Q5 (T5555), Q7 (T5557)
	Reading-distance	up to 7 cm (depending on form and antenna)
Current supply	Internal	Li-ION Akku, 1,800 mAh / 3,7 V. opt.: 1,800/1,950 mAh
	External	Vehicle: Cable for cigarette lighter ( 12-24V ) Stationary: Cable incl. Power supply ( AC/DC Adaptor 3VA )
Accumulator temperature	Charging temperature	0 to + 45 °C
	Operating temperature	-20 to + 60 °C
	Storing temperature	-20 to + 45 °C
Housing		ABS housing
Dimensions	( H / W / D )	185mm / 75mm / 35mm
Weight	Unit with CCD	275 gram ( inclusive Akku )
	Unit with Laser	245 gram ( inclusive Akku )
Temperature/Humidity	Operating temperature	-10 to + 55 °C
	Store temperature	-30 to + 60 °C
	Relative humidity of the air	5% to 95%
Interfaces		Infra-red (IR), RS 232, RS 485 ( 1.200 - 115.200 Baud )
Protection Class		IP 54
Operating system		HCOS ( Helicom Operating System ), multitasking
Programming language		C [ Gnu C Compiler (GCC) ]
Data rate	CSD	9600 Baud
	GPRS	Class 2
Falling-test		1,2 meter on concrete