

## FEATURES & BENEFITS

Ergonomic shape and lightweight design allow easy one-handed operation

Rugged design for use in rough outdoor environments

Integrated dual-radio wireless connectivity:

- 802.11b
- Bluetooth<sup>™</sup> wireless technology

Ergonomically placed frontmounted speaker, microphone and earpiece for optimal acoustic performance

High performance CMOS imager with 1D and 2D barcode decoding

Bright, backlit transflective color display with tempered glass touchscreen

Backlit keypad with 5-way navigation key

Microsoft® Windows® Mobile Operating System

omputer - W

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Exceptional power management for extended battery performance

Strong application development support with C/C++ and .NET (C#) software development kits and versatile software loader

Terminal emulation ready

Host of communication/charging cradles and accessories



# Designed to Meet the Rigorous Demands of Today's Mobile Workforce

Motorola introduces the HC700-L, a full featured handheld computer for the enterprise. The HC700-L provides integrated data capture capability and WLAN connectivity in a rugged design that seamlessly and securely links people, assets and critical business information. The HC700-L is designed and tested to military environmental specifications to withstand the rigorous demands of a mobile workforce.

The HC700-L provides your mobile workforce with access to your enterprise applications so they can respond rapidly and appropriately to any situation, which helps increase productivity and performance at the point-of-activity.

## PHYSICAL CHARACTERISTICS

Model	F3129
Dimensions (H x W x D)	197.6 mm (7.78") x 81.2 mm (3.20") x 48.6 mm (1.91") tapered down at grip to 197.6 mm (7.78") x 62.6 mm (2.46") x 42.4 mm (1.67")
Weight	508g (17.9 oz) fully loaded with battery (128g) and handstrap (11g)

USER INTERFACE	
Keypad	40-key plus Power
	5-way navigation key
	Send/End keys for voice communications
	Alphanumeric (ABC with numeric overlay)
	Terminal Emulation (F1-F12)
	Backlit with tactile feedback plus Power
Indicators	2 tri-color LEDs:
	Right: Charging status and bad battery (in cradle), suspend and critical low battery
	Left: Application-controlled
Display	3.5" QVGA (320x240), high contrast, anti-reflective, transflective TFT display for bright daylight conditions and
	backlit for low-light conditions
	Tempered glass touchscreen
Audio	Speaker: 80 dB SPL @ 30cm (at 2700Hz), 0.5W

# PROCESSING POWER

Operating System	Microsoft® Windows® Mobile 2003 SE
Processor	Intel <sup>®</sup> XScale PXA270™ Processor @ 416MHz
Memory Configuration Flash/SDRAM	64/64, 128/64, 128/128 MB
Memory Expansion	Secure Digital (Mini SD), accessible protected slot
Application Development	C/C++ SDK using Embedded Visual C++ 4.0
	.NET (C#) SDK based on Compact Framework 2.0 to use with Visual Studio 2005

DATA CAPTURE				
Imager	1D/2D Adaptus	™ imaging technology	752 x 480 pixel CMOS area imager	
Illumination	Red or Green L	ED		
Aiming	Green LED			
Skew and Pitch	± 40 degrees			
Roll (tilt)	360 degrees on	360 degrees omni-directional scanning		
Ambient light	Darkness to 100	Darkness to 100,000 lux, with some Depth Of Field degradation in low lighting conditions		
Supported Symbologies	1D: China Post, Code 49, Code Post, MSI, Ples: Straight 2 of 5 I UPC-A, UPC-A PDF417: EAN•L 2D: 4-CB (4-Sta Data Matrix, ID Postnet, QR Co (Note: Symbolo	Darkness to 100,000 lux, with some Depth Of Field degradation in low lighting conditions   1D: China Post, Codabar, Codablock F, Code 11, Code 16K, Code 32 Pharmaceutical (PARAF), Code 39,   Code 49, Code 93 and 93i, Code 128, EAN- 8, EAN- 13, Interleaved 2 of 5, ISBT 128, Matrix 2 of 5, Korea   Post, MSI, Plessey Code, PosiCode, Reduced Space, Symbology (RSS-14, RSS Limited, RSS Expanded),   Straight 2 of 5 IATA (two-bar start/stop), Straight 2 of 5 Industrial (three-bar start/stop), Telepen, Trioptic Code,   UPC-A, UPC-A with Extended Coupon Code, UPC-E, UPC-E1   PDF417: EAN+UCC Composite, MicroPDF417, PDF417, TCIF Linked Code 39 (TLC39)   2D: 4-CB (4-State Customer Barcode), Australian Post, Aztec Code, Aztec Mesas, British Post, Canadian Post,   Data Matrix, ID-tag (UPU 4-State), Japanese Post, KIX (Netherlands) Post, MaxiCode, OCR, Planet Code,   Postnet, QR Code   (Note: Symbologies in bold type are enabled by default )		
Field of View (FOV)	Distance	Vertical	Horizontal	
	5″ 7″ 9″	2.4" 3.4" 4.3"	3.8" 5.3" 6.7"	

# DATA CAPTURE (continued)

Depth of Focus (DOF) with Red Illumination (typical)

Code	Near	Far
Code 39, 15 mil	2.1 "	12.8″
Code 39, 10 mil	3.2"	9.2″
Code 39, 8 mil	3.5″	7.6″
UPC, 13 mil 100%	2.1″	13.2″
Postnet	4.0"	5.9″
12-point OCRA	2.3"	9.4"
12-point OCRB	2.5″	10.4"
PDF417, ECL4 10 mil	3.1″	9.0″
PDF417, ECL4 8 mil	3.3″	8.0"
PDF417, ECL4 6.6 mil	4.5″	6.2″
MaxiCode, 35 mil	2.0"	13.0″
DataMatrix, 15 mil (ECC200)	2.3″	10.2"

# WIRED INTERFACES

Physical	19-pin ruggedized connector	
USB	v1.1 client	
RS232	with full hardware flow control	
Power In (charging)	11-15VDC	

WIRELESS DATA COMMUNIC	CATIONS	
WPAN	Bluetooth™ v1.2 Class 2 (typical 1mW, minimum 10m), internal antenna	
Bluetooth Supported Devices	Tested Bluetooth Printers	
	HFI200 Hands-Free Imager (future)	
Supported Bluetooth Profiles	GAP, GEOP, SPP, DUN (client), FTP (OBEX file transfer), LAP (client), OPP	
Bluetooth Security	Mode 1 and 3	
WLAN	802.11b, internal antenna. 802.11b/g (future)	
WLAN Security Standards	WEP, WPA	
	Wi-Fi Certified	
WLAN Authentication and		
Access Control	WEP (open and shared key)	
	LEAP	
	PEAP (PEAP-EAP-MSCHAPv2)	
WLAN Encryption	WEP, TKIP	
POWER		
Battery Pack	Lithium-Ion, 7.2V, 1800mAh, user replaceable. Hot swapable up to 30 minutes	
Battery Operation Time	10 hours, application dependent	
Maximum Charging Time	4 hours	
Charging Cycles	400 full discharge cycles with minimum 80% capacity remaining	
Power Saving Modes	Configurable with SDK	

#### ENVIRONMENTAL

Operating Temperature	-20°C to +60°C (-4° to 140° F) with some degradations below 0°C and above 50°C
Storage Temperature	-30°C to +85°C (-22° to 185° F) without battery
High Humidity	95%@50°C for 8 h (non-condensing)

#### DURABILITY

Rain and Dust	IP64, IEC60529
	MIL-STD-810F, Method 506.4 Proc III - Drip Rain
Salt Fog	MIL-STD-810F, Method 509.4 (8 hours soak, 24 hours dry out)
Drop	Multiple up to 6 feet (1.8m) drops at various temperatures
Vibration	MIL-STD-810F method 514.5, Figure 514.5C-1
	(1 hour per axis)
	TIA/EIA 603 para. 3.3.4
Shock (Functional)	MIL-STD-810F Method 516.5, Procedure I
Shock (Crash Hazard when	
in Vehicle Cradle)	MIL-STD-810F, Method (Crash Hazard) 516.5 Proc V
Ball Impact	130 g (4.6 oz) steel ball from 35 cm (13.8") height
Electro Static Discharge (ESD)	±8K Contact, ±15KV Per EN61000-4-2
Solar Radiation	MIL-STD-810F Method 505.4 Procedure I

## SAFETY REGULATORY

Flammability	ANSI/UL-94 and ASTM Standards
Electrical Safety	US: UL60950 Canada: CSA C22.2 No. 60950
EMI/RFI	US: FCC Part 15 Subpart C section 15.247 and Subpart B Canada: RSS210 Issue 5

#### ACCESSORIES

Personal Desktop Cradle	with USB, RS232 pass through and spare battery charging
4-slot Communication Cradle	with RS232 and Ethernet ports
8-slot Communication Cradle	with RS232 and Ethernet ports
Vehicle Cradle	with USB and RS232 pass through
Vehicle Power Adapter	12V, quick disconnect
Serial Cables	DB25, DB9, quick disconnect
Travel Charger	220/110Vac
Belt/Shoulder Holster	without shoulder strap
Spare Stylus	Pack of 5
Spare Tethered Stylus	Pack of 5
Spare Hand Strap	User replaceable
Spare Battery	1800mAh, 7.2V



Back view showing handy hand strap.

Note: All specifications are subject to change



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