

# HX2 Rugged Wearable Computer



## HANDS-FREE COMPUTERS

**Impact resistant screen made from the same materials found in fighter-jet cockpit windows.**

**Magnesium alloy front ensures survival in rugged environments.**

**Crisp sunlight-readable display allows easy viewing in any lighting condition.**

**Innovative arm band avoids slippage by comfortably securing the HX2 where you want it.**

**Touch screen for easy input.**

**Crucial components break away from snags improving operator safety.**

**Standard and extended battery options.**

**Small, light-weight design (< 5" wide) offers comfort for full-shift operations.**

**Keypad options:**

- new double tap
- new triple tap
- legacy (triple tap)

**Large, backlit keys are fully mappable so you can customize for specific applications.**

**Multiple data-capture options with laser ring scanner or 2D imager ring.**

## LXE is\_RUGGED RELIABLE MOBILE COMPUTERS.

**Compact and comfortable**  
The HX2, designed to be worn on the arm or waist, frees both hands enabling more efficient warehouse inventory moves. Loaded with the latest Windows® CE 5.0 Professional OS, and an 802.11b/g radio with Bluetooth option, you're prepared for the real-time business of today and tomorrow.

An innovative arm band comfortably secures the HX2 to the operator, preventing the unit from rotating - a common frustration associated with other wearables.

The unit's large backlit variably-sized keys (w/multiple keypad options) are specially designed for high-speed picking, and its extraordinarily bright, sunlight-readable color display offers easy viewing in any lighting condition and from any angle.

**Tough as nails**  
The light-weight HX2's magnesium alloy front and impact-resistant display keep the unit in service and out of the repair shop. And the LXE ring scanners are built as tough as the main computer.

*The HX2 is supported by LXE's award-winning support team, Mobile Star Award™ winners for best customer service, six years in a row.*



# HX2

## Technical Specifications



### Processing & Memory

- XScale® PXA255 CPU 400MHz
- 128MB SDRAM
- 128MB or 512MB Flash

### Operating System

- Windows® CE 5.0 Professional Plus
- Non-volatile storage of resident drivers, applications and settings

### Optional Software

- RFTerm® (VT220, TN5250, TN3270)
- AppLock utility controls user application access & unwanted configuration chgs
- Personal JAVA 1.2 JVM
- Localization for English, simplified Chinese, traditional Chinese, Korean, Thai and Japanese
- Barcode wedge, RF, audio mixer, power management and diagnostic utilities
- voice recognition

### Application Development

- Free SDK available through LXE's Developer Portal
- <http://www.lxe.com/developer>
- Sample code for each API call
- Complete example applications
- Developer related FAQs

### Keyboard

- 23-key alpha-numeric backlit keyboard
- Full keyboard mapping support
- Two orderable options for alpha entry:
  - Double-tap alpha entry via color-coded legend
  - Triple-tap alpha entry (cell phone style)

### Displays & Touch Screen

- Sunlight readable 320 x 240 (¼ VGA) TFT color display, 350 NIT brightness
- High impact resistant touch screen with stylus - accepts finger input
  - Touch screen can be disabled

### Power System & Management

- 10+ hr standard battery (w/typical use)

- 20+ hr extended battery (w/typical use)
- Batteries are remotely tethered for added flexibility and comfort
- Backup battery w/automatic charging for main battery hot swap
- Active power management (configurable)

### Interfaces

- Ring scanner interface
- Built-in microphone & speaker
- Speaker supports > 102 dB volume
- Headset port
- USB host, USB client, RS-232 through cradle
- Power input

### Radio Card Support

- 802.11b/g WLAN radio (Wi-Fi certified)
- Supports WPA and WPA 2
- Internal diversity antenna
- Bluetooth 2.0+EDR w/class 2 radio

### Enclosure

- Magnesium alloy bezel with high impact plastic case
- Dimensions: 4.98" x 3.51" x 1.43" (12.6cm x 8.9cm x 3.6cm)
- Weight:
  - HX2 - 9.3oz (264g)
  - SR laser ring - 1.5 oz (42g)
  - Standard battery - 4.0oz (114g)

### Environmental

- Temperature Rating
  - Operating: -4°F to 122°F (-20°C to 50°C)
  - Storage: -4°F to 158°F (-20°C to 70°C)
- Humidity Operating: 5% to 90% RH non-condensing at 104°F (40°C)
- Drop Specification:
  - 4ft (1.2m) multiple drops to concrete
- Ingress protection enclosure rating: IEC 60529 compliant to IP54

### Barcode Ring Scanner

- SR laser ring - 45" scan distance
- 2D imager ring - 21" scan distance
  - Enhanced white LED flash illumination
- Both rings available w/long cables to attach to hip flip or voice case

### Approvals

- Emissions (EMI)
  - FCC Part 15 Subpart B, Class A
  - Industry Canada ICES-003 Class A
  - EN 55022, Class A (CISPR22)
- Immunity (EMC)
  - EN 55024:1998
- Safety
  - UL 60950
  - CSA C22.2 No. 60950
  - EN 60950, IEC 60950
- Laser Safety
  - CDRH:21 CFR 1040.10,
  - EN 60825-1 and IEC 60825-1
- Radios separately approved to:
  - FCC Part 15, Subpart C
  - Industry Canada RSS 210, RSS 102, RSS 139 and/or 210
- R&TTE Directive:
  - EN 300 328, EN 300 826, EN 60950
  - FCC Part 15 Subpart B, Class A
  - Industry Canada ICES-003 Class A
- RoHS compliant

### Wearable Accessories

- Arm band - fully adjustable comfort straps, snap-on HX2 attachment, quick-slide battery pocket. Designed for right or left hand usage. --switching between arms is simple
- Belt mounted hip-flip
- Belt mounted voice case

### Accessories

- 6 bay battery charger w/analyzer
- Desktop cradle - powers HX2, 2 battery charging slots, USB host, USB client and RS-232.
- HX2 ActiveSync cable (does not require cradle)
- HX2 headset adapter cable
- HX2 replacement battery cable
- HX2 battery extension cable (allows battery to be worn a greater distance from the HX2)
- USB host cradle cable
- USB client cradle cable
- RS-232 cradle cable

