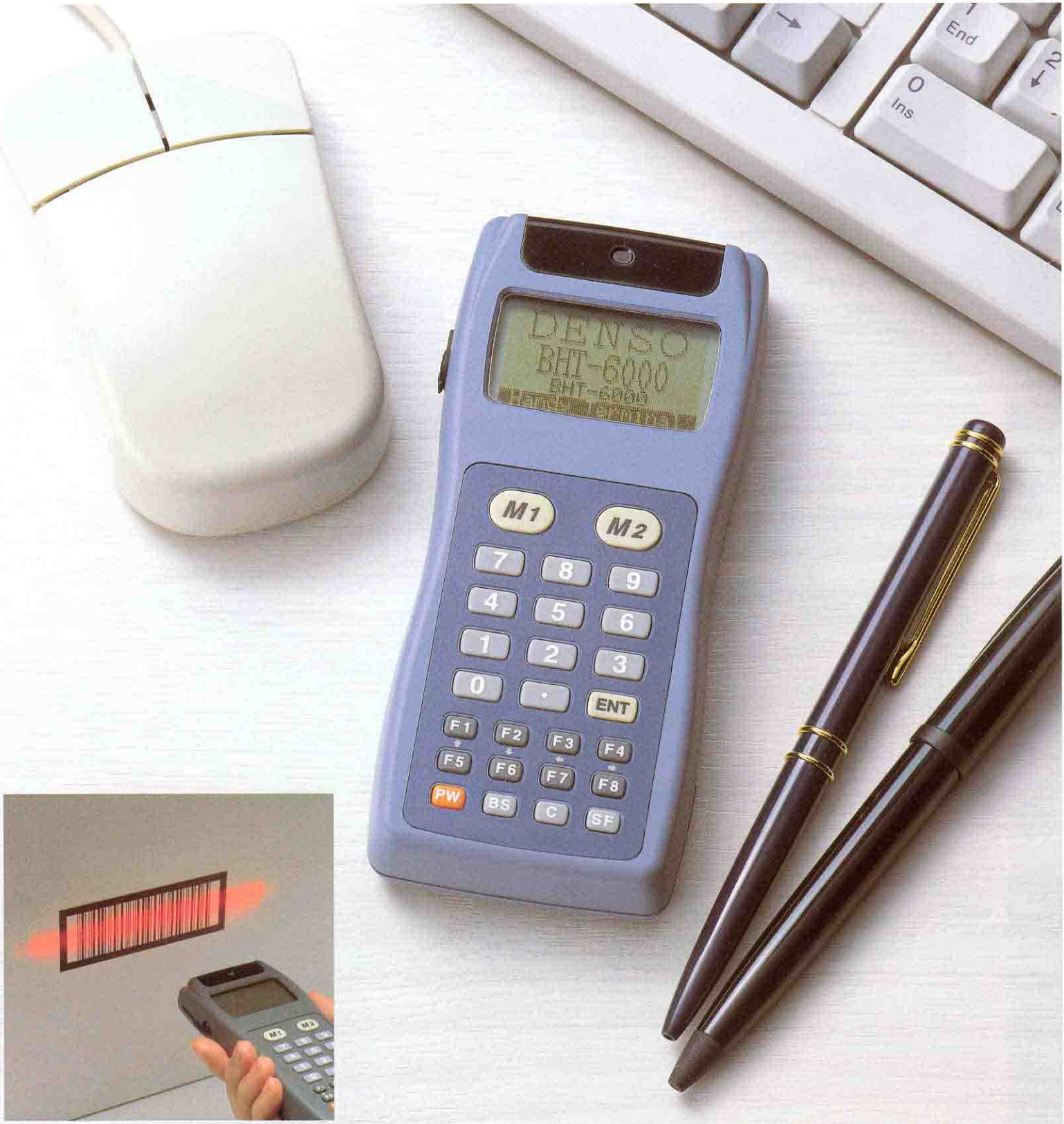
DENSO



## BAR CODE HANDY TERMINAL

# BHT-6000/6000D



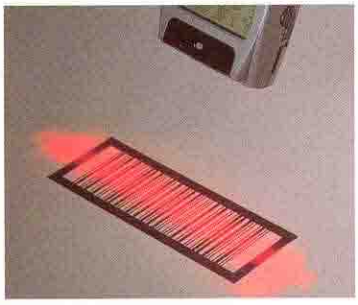
# Pocket This ...and Pocket the Savings

## IrDA Communications

With the integrated IrDA-compliant communications device, the BHT-6000(D) directly transfers data and programs to/from other IrDA-compliant equipment such as personal computers at speeds of up to 115.2 Kbps.

## Choice between Normal-range Scanner and Enhanced Long-range Scanner

You can choose between the normal-range scanner (BHT-6000) and enhanced long-range scanner (BHT-6000D). Both allow you to read bar codes in touch scanning and in distance scanning modes. The enhanced BHT-6000D scanner can read bar codes at a distance of 300 mm (11.8") from the reading window.



## Ultra-compact and Lightweight

The design goal of best portable devices is here, BHT-6000(D). The BHT-6000(D) is 135 x 59 x 20 mm (5.3 x 2.3 x 0.79") and weighs only approx. 130 g includ-ing batteries. Pocket this anytime and anywhere.


BHT-6000D

## Magic Keys

You can assign various functions such as trigger switch and ENT key to two magic keys.

## Two Display Modes

The high-resolution display allows you to select 16-dot or 12-dot display mode. The 16-dot mode displays characters in large size; the 12-dot mode displays many characters.

## Battery Option

The BHT-6000(D) can be powered by either two AAA alkaline manganese batteries or a rechargeable Ni-MH battery cartridge. The AAA batteries run the BHT-6000(D) for approx. 100 hours and the Ni-MH battery cartridge for approx. 20 hours. (When reading bar codes twice every 10 seconds)


## Powerful Software Lineup (Option)

### BHT-BASIC 3.5

The BHT-BASIC 3.5 is a simple programming tool for developing user programs. You can easily use it with programming knowledge of the BASIC language. This is compatible within the complete DENSO BHT series lineup. It runs on MS-DOS, MS-Windows 3.1, Windows95, and Windows NT.

### Ir-Transfer Utilities

At high speed of 115.2 Kbps, Ir-Transfer Utility can transfer data between the BHT-6000(D) and host computer. It is available in two versions--Ir-Transfer Utility C and Ir-Transfer Utility E. The former transfers data via the CU-6000(G) IrDA-compliant commu-nications unit. The latter does directly with any commercially available IR transceivers and IR port-integrated computers.
Ir-Transfer Utility C runs in MS-DOS, Windows 3.1, Windows 95, or Windows NT environment. Ir-Transfer Utility E runs in Windows 95 or Windows NT environment.
For both utilities, DLL-based versions are also available, which allows you to embed the transfer utility in your applications.

### These utilities run on:

- PC/AT series
- PS/2 series

### Easy Pack Pro

This is an easy-to-use data collection software package exclusively designed for the BHT-6000(D). Just by interactive key operation, you can easily use Easy Pack Pro immediately after introduction.

### BHT-BASIC Extension Library

This library provides graphic functions which help you make programs for displaying ruled lines or simple graphics (e.g., straight lines and trapeziums), and translation functions which convert data from ASCII codes to binary or packed decimals.

## Peripherals

### CU-6000(G) IrDA Communications Unit

Just placing the BHT-6000(D) on this unit enables error-free communications of data and programs with the host computer at speeds of up to 115.2 Kbps.
This IrDA unit allows the BHT-6000(D) to communicate with the host computer at a distance of approx. 80 cm in wireless mode.
The CU-6000(G) is available in two models --CU-6001(G) and CU-6002(G). The former has a battery charger and the latter does not.

### C-600 Battery Charger (4-slot)

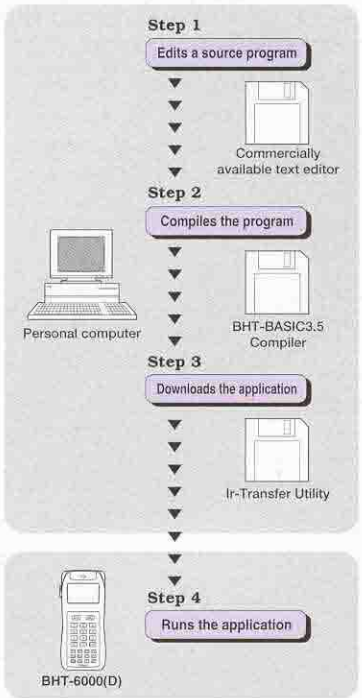
The C-600 can charge up to four BHT-6000(D) Ni-MH battery cartridges at a time.

### B-60N Ni-MH Battery Cartridge

This is a rechargeable battery cartridge exclusively designed for the BHT-6000(D). It is capable of running the BHT-6000(D) for approx. 20 hours. (When scanning bar codes twice every 10 seconds.)

### Application Development and Tools

(example on BHT-6000(D))



## BHT-6000/BHT-6000D Specifications

| | | | BHT-6000 | BHT-6000D |
|---|---|---|---|---|
| Controller | CPU | | 16-bit C-MOS | |
| | Flash ROM*1 | Size | 512 Kbytes or 1 Mbyte | |
| | | System area | 160 Kbytes | |
| | | Kanji code table area | 256 Kbytes (Kanji font files) | |
| | | User area | 64 Kbytes or 576 Kbytes | |
| | RAM | | 512 Kbytes | |
| Display | Resolution | | 96 x 48 dots | |
| | Display device | | Liquid crystal dot-matrix display | |
| | Capability | Alphanumerics and Katakana | 16 chars by 6 lines (16-dot mode),16 chars by 8 lines (12-dot mode) | |
| | | Full-width characters | 6 chars by 3 lines (16-dot mode),8 chars by 4 lines (12-dot mode) | |
| | | Half-width characters | 12 chars by 3 lines (16-dot mode),16 chars by 4 lines (12-dot mode) | |
| | Backlight | | Yes (LED) | |
| Scanner | Scanning system | | CCD | |
| | Scanning area | | Max. 215 mm (8.5")*2 | Max. 300 mm (11.8")*3 |
| | Readable bar codes | | UPC-A/E, EAN-13/8, UPC/EAN with supplemental codes, ITF, STF, NW7, CODE39, and CODE128 | |
| | Resolution | | 0.1 mm (3.9 mils)*4 | 0.15 mm (5.9 mils)*5 |
| | Reading confirmation LED | | 2-color LED (red and green) | |
| Keypad | Number of keys | | 24 keys plus 2 magic keys | |
| Communications | Optical interface | Communications system | Infrared interface (IrDA-SIR1.0 compliant) | |
| | | Transmission speed | Max. 115.2 Kbps | |
| | | Transmission Distance | Approx. 0.8 m | |
| | Cable interface | Synchronization | Start-stop (asynchronous) | |
| | | Transmission speed | Max. 38,400 bps | |
| | | PC interface | RS-232C (ISA COM port compatible) | |
| Power Supply | Main power (selective option) | | Two AAA alkaline manganese batteries or Ni-MH battery cartridge | |
| | Backup power | | Electric double layer capacitor | |
| Auxiliary Functions | Calendar clock | | Year, month, day, hour, and second (with auto-correction on February 29) | |
| | Beeper | | Sound controllable in volume and tone | |
| | Battery output indication | | Yes (bar indicator on the LCD) | |
| Weight | | | Approx. 130 g (including alkaline batteries) | |
| Environmental Requirements | Operating temperature | | -5 to 50°C | |
| | Drip-proof | | JIS Drip-proof II | |
| Color | | | Blue | Gray |

*1. Deleting Kanji font files from the Kanji code table area enables you to extend the user area by 256 Kbytes. After you delete them, you may selectively use Kanji characters you need by using the optional Kanji Utility.
*2. Scanning at a distance of 200 mm (7.9") from the reading window under these conditions--narrow bar: 1.0 mm (39.4 mils) min., ambient illuminance: 500 lux min.
*3. Scanning at a distance of 300 mm (11.8") from the reading window under these conditions--narrow bar: 1.0 mm (39.4 mils) min., ambient illuminance: 500 lux min.
*4. Touch-scanning of ITF, STF, NW7, or CODE39 under these conditions--PCS: 0.9 min.
*5. Scanning of ITF, STF, NW7, or CODE39 at a distance of approx. 68 mm (2.7") under these conditions--PCS: 0.9 min.

## CU-6001/CU-6002 Specifications

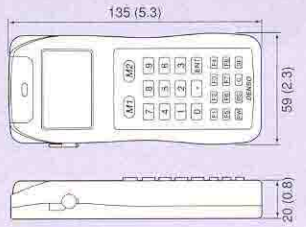
| | | | CU-6001(G) (With battery charger) | CU-6002(G) |
|---|---|---|---|---|
| Communications | Between BHT and CU | Communications system | Infrared interface (IrDA-SIR1.0 compliant) | |
| | | Transmission speed | Max. 115.2 Kbps | |
| | | Transmission distance | Approx. 0.8 m | |
| | Between CU and host | Synchronization | Start-stop (asynchronous) | |
| | | PC interface | RS-232C (ISA COM port compatible) | |
| Battery Charger | Battery loaded in BHT-6000(D) | | 10-hour charge | — |
| | Battery alone | | 10-hour charge | — |
| Status Indicator | LEDs | | Power LED, communications LED, and charge LEDs | — |
| Power Source | | | AC/DC adapter | |

**NOTES**
- Before use, read the user's manual carefully.
- Use your machines only at the rated voltage.
- Specifications are subject to change without notice.
- Information on this catalogue is current as of June 1999

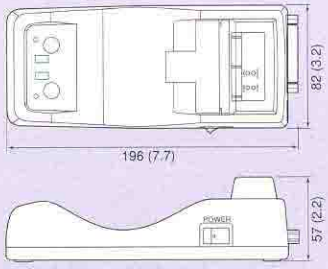
CAUTION
LASER LIGHT-DO NOT STARE INTO BEAM
1mW MAXIMUM OUTPUT ; 650nm LASER
CLASS II LASER PRODUCT
THIS DEVICE COMPLIES WITH 21 CFR CHAPTER 1, SUBCHAPTER J.

## Dimensions

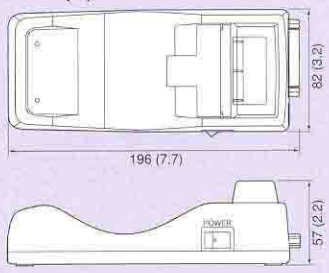
BHT-6000/6000D Unit: mm (inches)



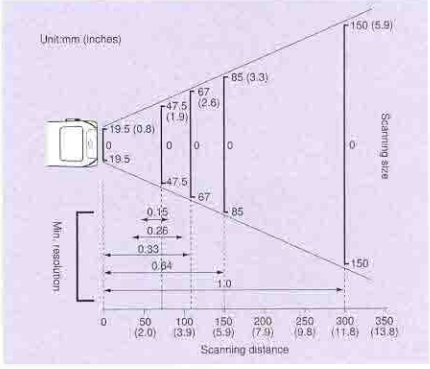

CU-6001(G)




CU-6002(G)




## BHT-6000D Scanning Performance




**Accessories**
- Hand strap
- Clip holder

**Options (sold separately)**
- CU-6001(G) IrDA communications unit(with battery charger)
- Cu-6002(G) IrDA communications unit
- C-600 battery charger (4-slot)
- Ni-MH battery cartridge

**Software (optional)**
- BHT-BASIC 3.5 Compiler
- BHT-BASIC Extension Library
- Easy Pack Pro
- Ir-Transfer Utilities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