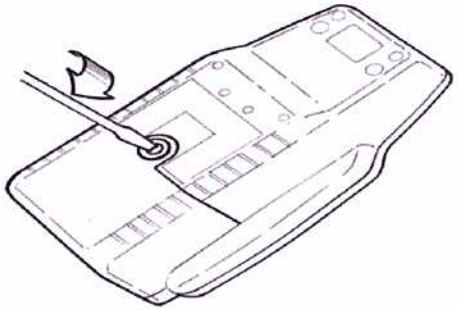
BP 1500 Battery Pack

The NOVAS incorporates a user-replaceable battery pack with a set of high capacity Nickel Metal Hydride (NiMH) cells and a complete battery charging circuit. The circuitry can properly charge the batteries and simultaneously power the unit. A fully charged battery can power the unit for about 10-12 hours, depending on the options installed and the specific application(s) used. An internal charger fast-charges the batteries from a fully discharged to a fully charged state in less than 4 hours. The charger automatically turns on when proper external power is applied to the unit; it can maintenance-charge the batteries indefinitely if proper external power is applied to the batteries. The charger also prevents the battery pack from being overcharged when the unit is frequently placed in and removed from a cradle or docking station.

Battery Charging Status LED:
Orange indicates charge pending;
red indicates active charging;
green shows a fully charged battery.

Battery Pack Removal

* Turn locking screw one quarter turn counterclockwise.
* Move the pack away from the main unit and slowly disengage the three legs from the base of the unit.



Battery Pack Installation

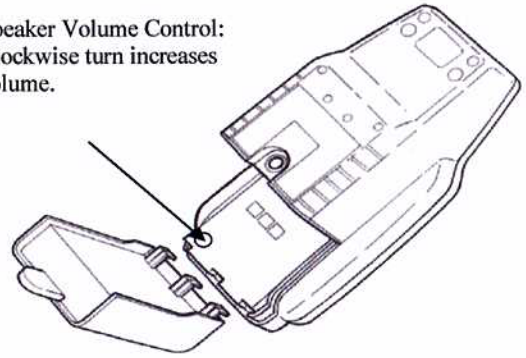
* Insert the battery pack legs into the main unit.
* Pivot the pack upward until the top engages the main unit.
* Turn the locking screw one quarter

Battery Warnings

Dispose of battery pack in conformity with local safety regulations. Replace Battery Pack with Factory Authorized Replacements Only.

Adjusting Speaker Volume

Speaker Volume Control:
Clockwise turn increases volume.



Humidity and Temperature

The NOVAS was designed for almost any physical operational environment. The surfaces of the control keys and the screen area are sealed to prevent liquids from interfering with normal operations. The NOVAS has been tested under very severe conditions and is rated for operating in relative humidity of 5 to 95%. Rated temperature ranges are:

- Operating: -4° to +122° F (-20° to +50° C)
- Storage: -4° to +158° F (-20° to +70° C)

However, due to the nature of NiMH batteries, charging temperature is limited to +10° to +35° C.

GLOBAL DATA
GRANITE COMMUNICATIONS

400024 Rev C

NOVAS

Care and Use Guide

Global Data Granite Communications
13 Columbia Dr, Suite 6
Amherst, NH 03031

☎ Phone: (603) 881-8666
Fax: (603) 881-4042
Internet: www.gcicom.com
Email: sales@gcicom.com

Regulatory Standards (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and the receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

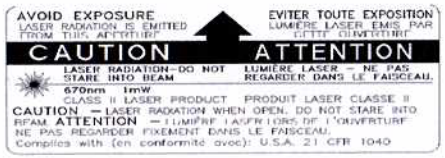
Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission rules.

* In order to maintain compliance with FCC regulations shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception.

Industry Canada ICES-003

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

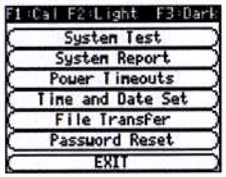
Cet appareil num¾rique de la classe B respecte toutes les exigences du RÀglement sur le matériel brouilleur du Canada.



Bar Code Scanning

The bar code scanner may be activated by the user using the built in setup application. In order to scan a bar code follow the following procedure.

Press F1 immediately after the power key is pressed until the NOVAS emits a tone. At this time the NOVAS will enter the Setup application.



Press the System Test Option. The following options will appear:

Press the Scan Bar Codes option. The following options will appear:

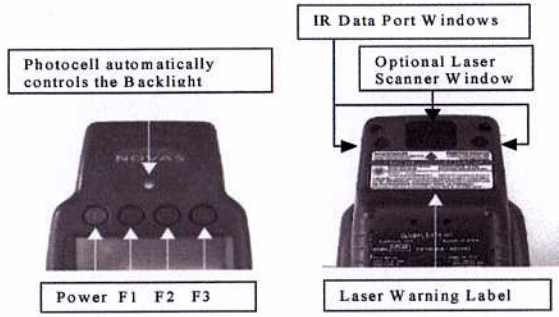
Hold the NOVAS such that the Laser Scanner window is pointed at the Bar Code that you want to scan. Press and hold the Touch to Scan Key on the Touchscreen in order to scan a Bar Code. The Bar code scanner will stop when the Bar Code is read or the user releases the "Touch to Scan" Key.

CAUTIONS

DO NOT clean the laser window with the power applied; users must avoid potential exposure to laser radiation.

DO NOT activate the laser scanner in any manner inconsistent with its intended use.

DO NOT expose fellow workers or passers-by to laser radiation.



Truncated Front and Rear views of the NOVAS

NOVAS Side View showing RS-232 Port

Screen Care & Cleaning

Use only a slightly dampened (water only) chamois or a clean, dry cloth to remove fingerprints or residue from the case or the IR/laser window. Do not use alcohol or ammonia based cleaners.

Controls

There are four push-button finger controls. The first **(Power)** control turns the unit on; the second **(F1)**, in conjunction with the first, calls up the Setup menu; the **F2**
and **F3** keys perform functions specified programmatically, e.g., contrast control in the Setup program. **F3**, when pressed simultaneously with the Power key, invokes
the Fail Safe Boot routine discussed in the NOVAS Software Integration Guide. Pressing **F1**, **F2**, and **F3** simultaneously will perform a hard reset of the NOVAS.

The speaker volume adjustment screw (see diagram on back page) may be turned clockwise with a jeweler's screwdriver to increase volume.

Power

The NOVAS operates in any of four power configurations. They are **1)** an internal battery pack (with internal battery charging); **2)** an external power source applied to the battery pack; **3)** an external power source applied through the NC-9 cradle; or **4)** an external power source applied through a serial port DIN

NOVAS-*RFID*

Preliminary Specifications

Size/Weight

- 19.1cm x 10.4cm x 7.6cm
- .5kg with battery pack

Processor

- Vadem VG330

Memory

- 2MB DRAM
- 2MB Flash ROM Expandable to 4MB

RFID

- 13.56 MHz Read/Write
- 125 KHz Read/Write

Mass Storage

- 2MB Flash memory module
- Compact Flash up to 96MB

Operating System

- DOS 6.22

Application Development

- PenRight!

Display

- Monochrome-Transflective
- EL auto-sensing backlight
- 10cm diagonal

Digitizer

- Transparent resistive touch panel
- Stylus or finger activation

PC Card

- Internal PC Card Type II Slot

Control Switches

- On/Off Power
- Three application specific function keys

Status Indicator Lights

- Charging status on battery pack

I/O Ports

- Power
- Infrared to NC-9 Cradle
- RS-232

Power

- High-capacity NiMH battery pack

Barcode Scanner

- Optional 1-D integrated laser barcode scanner

Accessories

NC-9 cradle

- Supports RS-232, RS-422 and RS-485
- Provides charging power to unit

Vehicle Adapter

- Connects to vehicle cigarette lighter

AC Adapter

- Connects to charger jack

Environmental

- -20C to 50C Operating
- -20C to 70C Storage
- 5% to 95% Humidity non-condensing
- 1.2 meter drop to a concrete surface

GLOBAL DATA

Granite Communications
13 Columbia Drive, Suite 6
Amherst, NH 03031
Ph: 603-881-8666
Fax: 603-881-4042
Email: sales@gcicom.com

Regulatory Approvals Pending

400144, Rev B— 5/16/2000