

**Setup of  
Laptop when in  
Nicaragua optical  
Clinic**

**1-16-2004**

**Revised: 4/21/2004**

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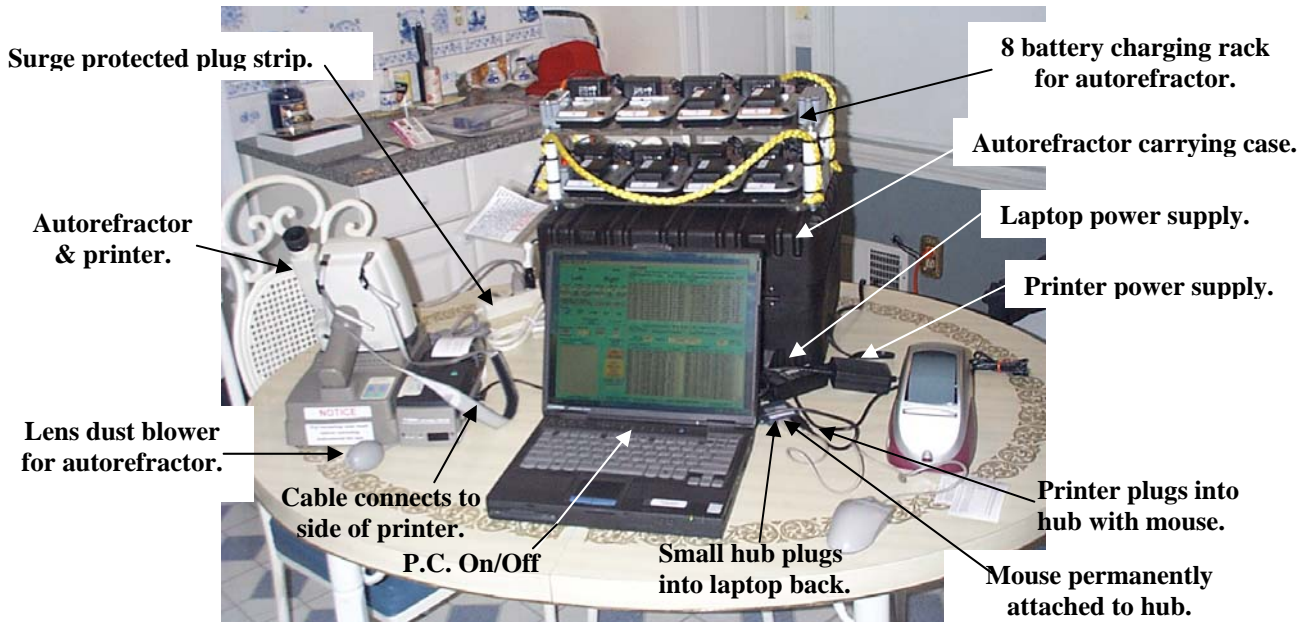
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### 1.0 Pictures of Setup.

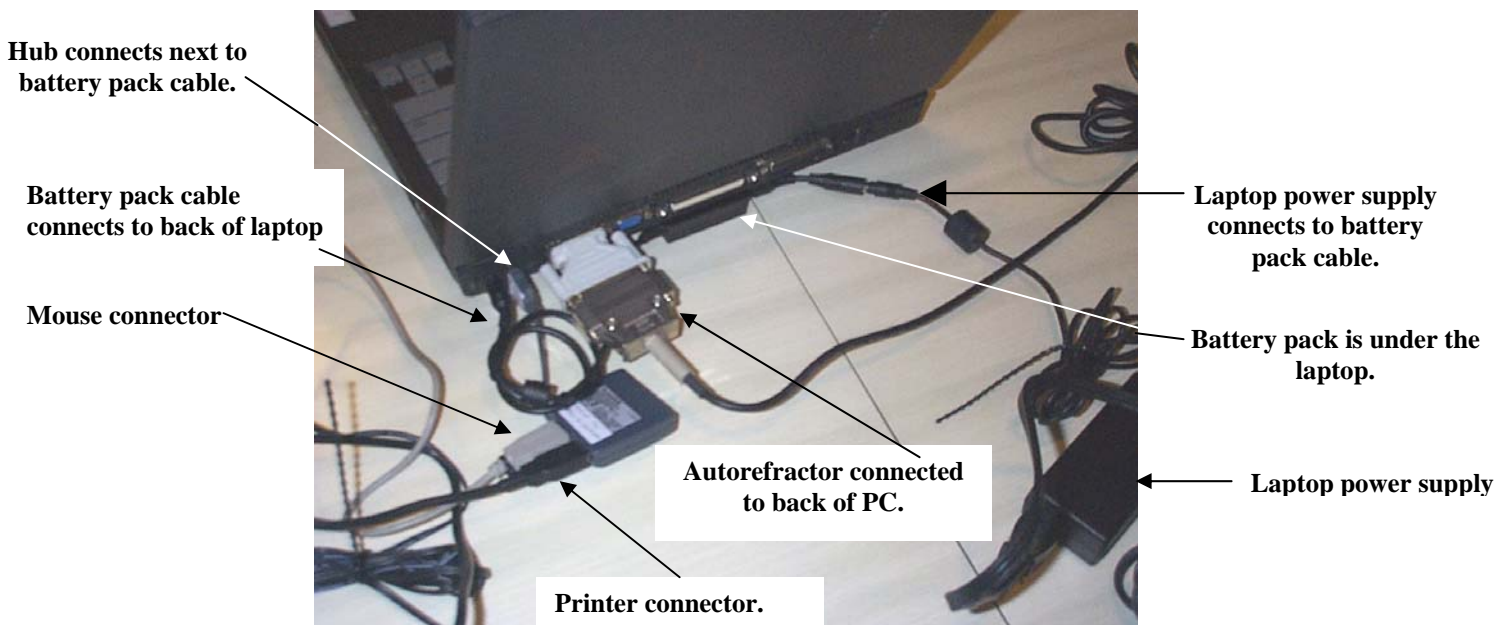
Use the following pictures to setup your laptop and associated equipment in the Nicaragua Optical clinic. At the end of this document are step-by-step instructions which refer to the pictures by their figure number.

## Setup of laptop when in Nicaragua optical clinic.



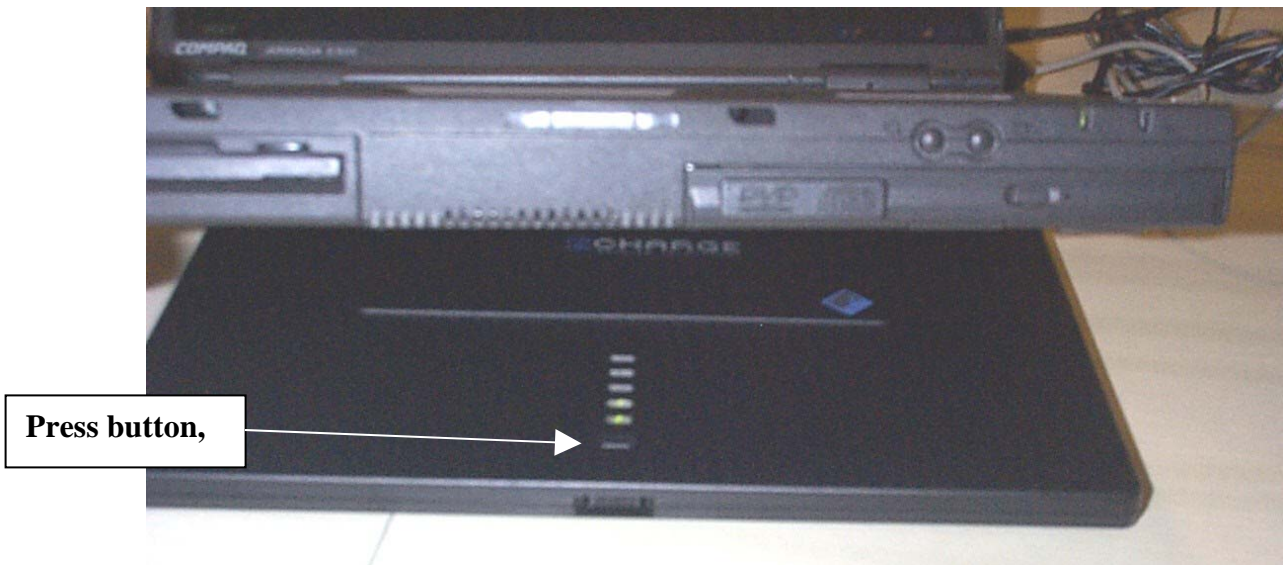
**FIGURE 1**

## Rear view of laptop setup.



**FIGURE 2**

### Checking remaining power in battery pack.

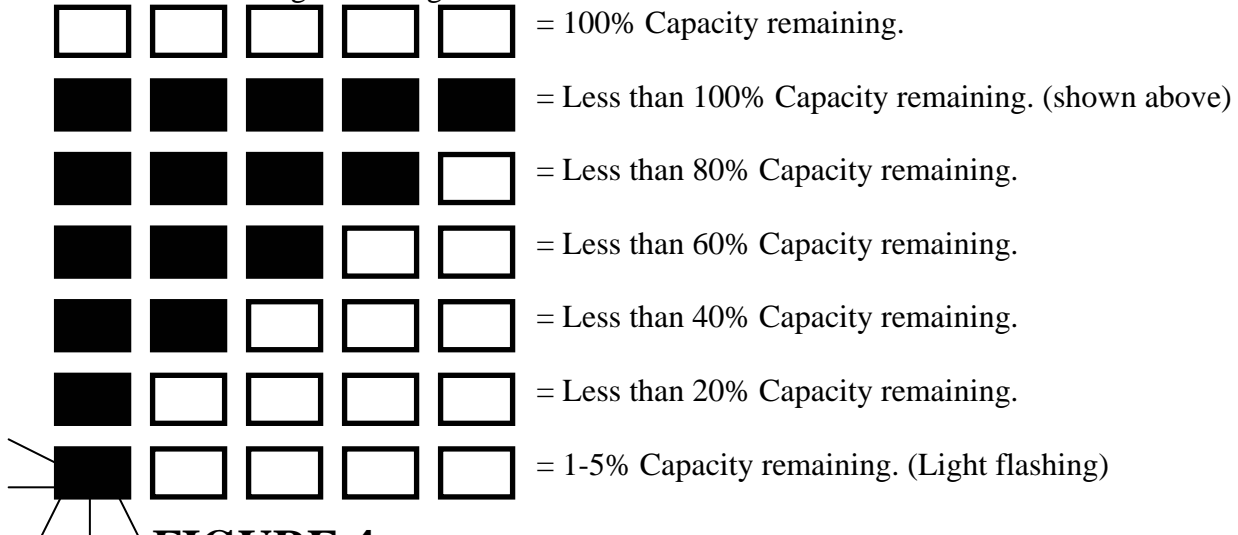


**FIGURE 3**

During charging, the Charge Level indicator LEDs of the N-Charge Power System will illuminate and begin to flicker, approximately every 2 seconds. If the LEDs do not light up immediately, allow the N-charge system to continue charging for at least one hour.

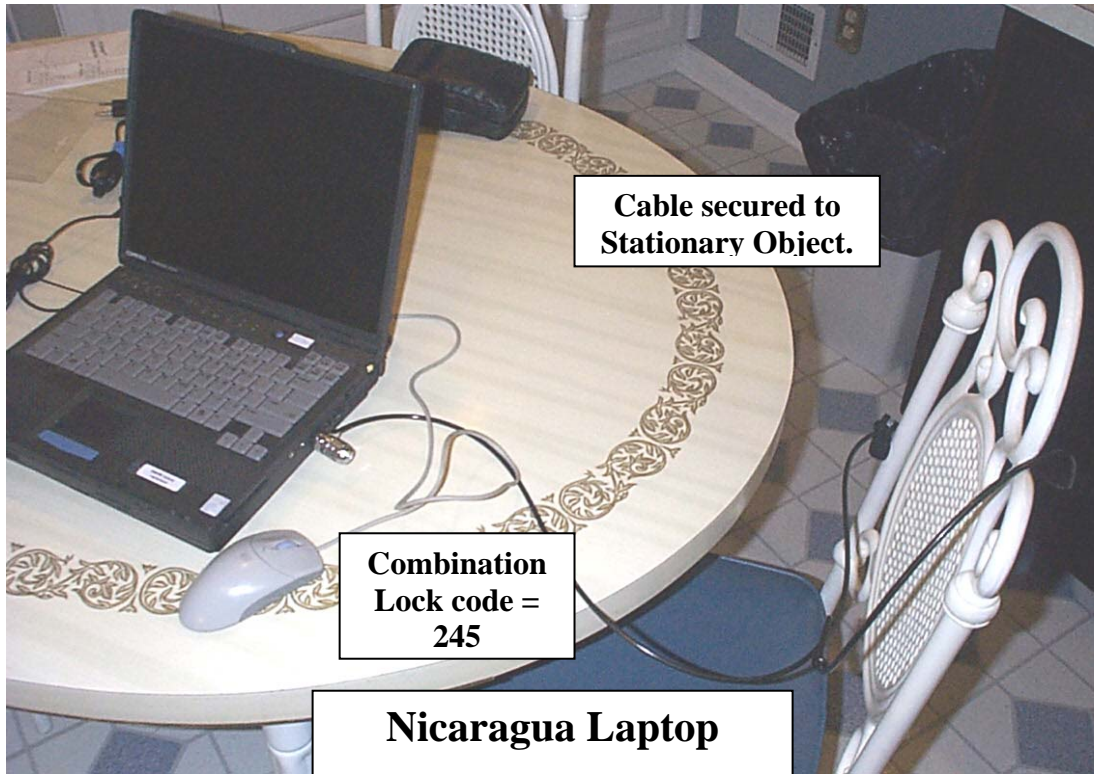
Estimated life when laptop is in use is 8-10 hours. Press the button as shown above to see the charge left in the battery pack.

Here are the meanings of the lights:



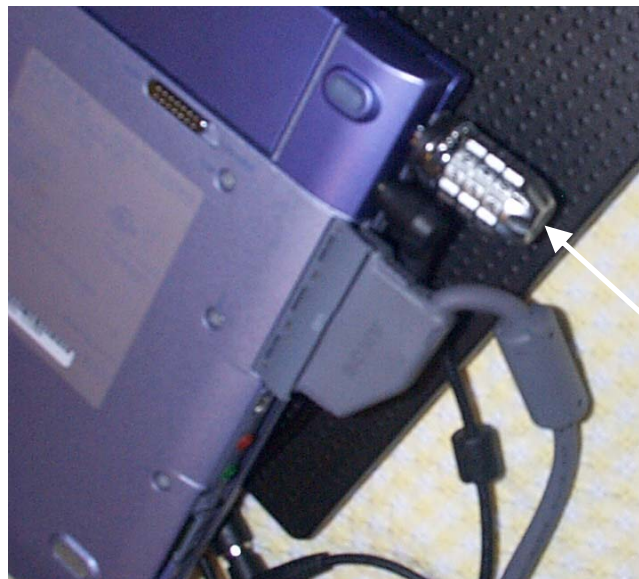
**FIGURE 4**

## Securing the laptop to protect it from theft.



**FIGURE 5**

**FIGURE 6**



Bottom view of Honduras laptop showing code lined up with the mark on dial.

Above code is set to "245" lined up with mark on wheel. This is the position you must have the wheel to remove and insert the cable into the hole on the side of the laptop.

**Steps to insert cable:** 1) Secure cable to a stationary object, 2) Set wheels at the proper combination. 3) Put lock into hole in side of the laptop turning 90 degrees to get all of lock into hole. 3) Press black washer firmly against the laptop. At this point change the wheels to something other than 245 and the cable is locked.

**Steps to remove cable:** 1) Set wheels to proper combination, 2) Pull unit and then turn 90 degrees to remove the lock from the laptop hole.

## 2.0 Step by Step setup

Follow these steps when setting up the laptop:

1. Setup the battery charging rack as shown in Figure 1. Connect this rack directly to a source of AC power. Do not connect to the UPS.
2. Setup the UPS as shown in section 3. This will be connected to the main power source in the optical clinic.
3. Place the laptop, autorefractor and Dymo labeler on a table in the optical clinic as shown in Figure 1. Make sure the autorefractor printer is attached to the side of the autorefractor stand and the power switch on the right side of the printer is turned on.
4. Connect the black autorefractor cable as indicated by the point "**Cable connects to side of printer**" shown in Figure 1 to the side of the autorefractor printer.
5. Connect this black cable to the back of the PC as shown by the point "**Autorefractor connected to back of PC**" in Figure 2.
6. Connect the laptop power supply shown by the point "**Laptop power supply**" in Figure 2 on one side to the battery pack cable (Point: **Laptop power supply connects to battery pack cable**). The power cord of the power supply will connect to a receptacle on the UPS.
7. After placing the battery pack under the laptop make sure its cable connects to the back of the laptop as shown in Figure 2.
8. Connect the miniature USB hub to the back of the laptop as shown at point "**Hub connects next to battery pack cable**" in Figure 2.
9. Make sure the mouse connector connects to the miniature USB hub as shown at point "**Mouse Connector**" in Figure 2 also the point "**Printer plugs into hub with mouse**" of Figure 1.
10. Connect the Dymo printer cable to the miniature USB hub as shown at point "**Printer connector**" in Figure 2 also the point "**Printer plugs into hub with mouse**" of Figure 1.
11. Connect the power cord from the printer power supply shown at point "**Printer Power supply**" in Figure 1 to a power receptacle on the UPS.
12. Connect the power cord for the autorefractor shown in Figure 2 at point "**Autorefractor and Printer**" to the back of the autorefractor stand and the other side to a receptacle on the UPS.
13. Secure the laptop to a hard to move object using the security cable as shown in Figures 5 and 6.
14. Power up the UPS as shown in section 3. Also apply power to the battery rack so that the batteries can begin charging.
15. Power up the computer as shown in point "**P.C. On/Off**" in Figure 1.

The system will come up and be ready for use.

Note a good reference is in the Optical Kit along with the other manuals. The manual is called "Nikon Retinomax 2 Usage Instructions".

### 3.0 UPS Setup.

The purpose of this section is to make you aware of a power protection system which is available to both the Honduras and Nicaragua Optical teams. This equipment is called a UPS (Uninterruptible Power Supply). This small unit will keep the optical equipment running for some time including the autorefractor, printer, and laptop. The best thing about this unit is it stabilized the power thereby preventing damage to the equipment through the power lines. The purpose of this section is to describe how to setup and use this equipment.

The equipment looks like a wide plug strip with 6 outlets. You can see this unit to the right. As you can see the unit has a yellow tag on it telling you that the battery for the unit is unplugged. When not in use, you should leave the battery unplugged.



Looking at the below pictures, turn the unit over and remove the single screw (#1). Slide the door to the right and re-connect the battery terminal. Rotate the battery back into place (#2) and close the door back and replace the screw (#3). You can now plug in and power up the unit for use (#1 arrow).

#### 1. Reconnect battery terminal



#### 2. Put battery in place



#### 3. Close door back and replace screw



Please be sure to use this unit every time you set up the optical equipment. Plug this unit into the wall and plug your equipment into it. It is not necessary to plug the battery charge rack into this unit. Plug it into the wall. This unit will protect the equipment from damage which might be coming through the electrical power.