Thank You and Congratulations on your purchase of Polaris, the latest standard definition camera in the dental video imaging product line from Air Techniques, a leading manufacturer of dental equipment since 1962. Polaris offers the flexible benefits of USB Plug-N-Play technology that is easily integrated into any practice. The lightweight one-piece handpiece is extremely maneuverable and produces crisp, clear images.

This document provides brief information to help you get started using your Polaris for the first time. Please refer to the Operator’s Manual PDF file on the Drivers and Utilities Disk for detailed information.

1 Components

- Polaris Camera Handpiece
- Handpiece Holder with Wall Mount
- Quick Start Guide
- USB 2.0 Cable, 10 Feet
- Disposable Camera Sheaths Sample Pack
- Software Drivers and Utilities Disk

2 Software Installation

Before connecting Polaris to your computer or attempting to use it for the first time, run the Setup program on the Drivers and Utilities Disk. This CD contains the necessary device drivers to communicate with the imaging software installed on the user’s computer.

Note: If the startup screen does not appear, double-click My Computer, double-click the CD drive and then double-click Autorun.exe.

3 Handpiece Connection

Do not twist or turn the Handpiece Cable connector. The connector is keyed and mates straight on with Handpiece connector.

1. Using the black molded connector end of the Handpiece Cable, align the connector key with the keyway of the Handpiece connector.
2. Insert straight into Handpiece connector until it securely snaps into place.

4 USB Interface Connections

IMPORTANT: Use a High Power (500 mA) USB 2.0 Port Only

1. Connect the USB Type A connector side of the Handpiece Cable to any available USB 2.0 high speed, high power port on the user supplied Computer System.
2. Always make sure to use the same USB port whenever re-connection of the USB cable is necessary.
3. A self-powered USB hub can be used to extend the handpiece cable length.
4. Do not use a BUS - powered hub or extension cable.

Note: Desktop computers shown. Laptop can be used.
Pre-Operation Preparation

1. Verify Polaris software and hardware setup.
2. Clean Polaris (first time use) as necessary.
3. Install a new Camera Sheath on the handpiece for each patient.

Camera Sheath Installation -
1. Insert the handpiece tip between the second and third layers with the camera/light facing towards the paper layer. See A and B.
2. Completely insert tip until it is fully into the narrow section of the sheath.
3. Squeeze the illuminated tip to ensure that the optically clear area of the Camera Sheath is flat against the lens tip. See C.
4. Peel away and discard the top plastic layer and the bottom paper layer. See D.

The Camera Sheath must be used for only one patient and disposed of properly in accordance with local code.

Maintenance

Surface Cleaning Instructions:
Clean the handpiece following each patient use. The cleaning instructions must be followed carefully to prevent damage to the camera housings, and internal components. Cleaning products containing active ingredients listed to the right are prohibited for use with Polaris. These chemicals can cause damage to the camera and could void the warranty.

1. Disconnect the USB cable. Remove the Camera Sheath and dispose in accordance with local regulations and clean handpiece as follows.
2. Moisten a cloth with warm water and remove any excessive moisture from the cloth before wiping the handpiece.
3. Wipe outer camera body with the moist cloth to ensure no pooling of water surrounds capture switch, ON/OFF switch or USB connection.
4. Window Lens may be cleaned with a cotton swab which is moistened with alcohol.
5. Allow the handpiece sufficient time to air dry before applying a new Camera Sheath, or storing the camera prior to the next use.

Operating Procedure

1. Start the imaging software.
2. Press the ON/OFF button to activate
3. Verify that the blue-violet LED lamps turn on.
4. Place the camera lens window over area of interest and view image on computer display monitor.
5. Press and release the top keypad button on the handpiece to freeze (ie. capture) the image.
6. Press and release the top keypad button again to unfreeze it.
7. Press and release the bottom keypad button to save the captured image and then to return to a live image display.
8. Press the ON/OFF button to turn the camera OFF.

Important:
Patient Safety - Make sure you are using a new Camera Sheath for each patient.

Caution – Prohibited Chemicals:
Cleaning products formulated with active ingredients listed below are prohibited for use with Polaris. These chemicals can cause damage to the camera and could void the warranty.

- Benzene
- Ethanol
- Isopropyl alcohol (higher than 70%)
- Glutaraldehyde
- Methyl Ethyl Ketone
- Ammonium Chloride
- Phenol based compounds
- Ethylene Glycol Monobutyl Ether

The PDF version of Operator’s Manual for Polaris is included on the CD. Also included are USB Device Drivers, Demonstration Program and Utilities and Adobe Acrobat Reader

Authorized imaging software, purchased from your dealer or other company, must be installed on the computer in order to operate Polaris.

Make sure that the computer meets all requirements necessary to support the Polaris. See Minimum Computer System Requirements in the Instruction Manual.

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