Updates to the Reference Guide and Editable Self Service Customer Procedure Guide

1 Purpose

This Technical Bulletin provides updated information for Chapter 4 Startup and Shutdown of the Reference Guide and Editable Self Service Customer Procedure Guide for ORTHO VISION® and ORTHO VISION® Max Analyzer for ID-MTS™ Gel Cards.

2 Applicability

This Technical Bulletin is applicable for both the ORTHO VISION® and the ORTHO VISION® Max Analyzers for ID-MTS™ Gel Cards.

3 Changes to User's Guide

A future version of the following Guides will be revised to include the information within this bulletin:

- ORTHO VISION® Analyzer – ID-MTS™ Gel Cards Reference Guide (J40050EN)

- ORTHO VISION® Max Analyzer – ID-MTS™ Gel Cards Reference Guide (J55656EN)

- ORTHO VISION® Analyzer/ORTHO VISION® Max Analyzer – ID-MTS™ Gel Cards Editable Self Service Customer Procedure Guide (J56102EN)

3.1 Chapter 4 Startup and Shutdown

Overview

Qualified Ortho Clinical Diagnostics service personnel perform initial setup and startup of the system, and upon completion, the system may remain operational 24 hours a day. When the system is operational, the software checks the environmental conditions of all stored liquids and reagents.

IMPORTANT: Restart the system when it is slow to respond.

Review this chapter when starting up of the system for the first time, or when you must shut down the system and start it up again.

System Setup

Upon completion of the first system setup, we recommend checking the following before starting the system, or when starting the system after it remained idle for an extended period:

- The Load Station is empty.

- The Doors are closed.

- The system is plugged into a grounded receptacle.

- The Power Cord and Data Cables are connected to the system.

- The Waste Tray is empty, or if the system is configured for external waste, the Waste Tray is removed.

- All the Liquid Containers are full.

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System Startup

The system startup begins when you power on the system using the Power Switch on the right side of the analyzer, and it is complete when the login prompt displays on the Home screen. For more information, see Power-on (page 4-4) and Login (page 5-2).

During system startup, a series of initialization processes occur, including a hardware initialization, a component inventory, and a consumable inventory.

Hardware Initialization

During the hardware initialization, the software checks that all the system components are functioning properly and that they are ready for operation, validates the System ID, confirms each system component (for example, the Centrifuge and Incubator) is ready for test processing, checks all Door Locks, and begins the environmental controls for the Deck, Centrifuge, and Incubator.

Component Inventory

During the component inventory, the system completes a series of inventory checks on the following components:

Component	Description
Liquid System	Confirms the capacitive liquid level of the Probe.
Imaging System	Confirms that there are no items present in the Imaging System.
Waste Drawer	Confirms that the Waste Tray is present or not present in the Waste Drawer depending on the system configuration. **IMPORTANT**: The system assumes that the Waste Tray is empty at startup and does not inventory the waste levels. Ensure that the Waste Tray is empty before you power on the system.
Incubator	Confirms that the Incubator is empty. If new, used, or partially used Cards are present in the Incubator, the system moves them to the Dual-Purpose Drawer.
Punch Tool	Confirms that the Punch Tool is present in the designated area. During this procedure, the system temporarily moves the Punch Tool to the Imaging System for identification.
Centrifuge	Confirms that the Centrifuge is empty. If Cards are present in the Centrifuge, the system moves them to the Dual-Purpose Drawer. **Note**: This includes any used, unused, and partially used Cards.

Consumable Inventory

During the consumable inventory, the system scans all positions on the Sample Rack, Reagent Rack, and the Supply Drawer to find any consumables loaded on the system. The system records the volume of each identified reagent.

Note: The system marks all samples found during startup as expired, and all reagents found in the Reagent Rack as requiring agitation.

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Sleep Mode

When the system is not in use, it automatically enters Sleep mode. During Sleep mode, a saline flush occurs every 2 hours to move liquids through the system and prevent crystallization of the system components. When the system is in Sleep mode for an extended period, the system conserves saline by stopping the saline flushes and filling the system with deionized water.

When does the system enter Sleep mode?

The system automatically enters Sleep mode after three saline flushes occur, or after

approximately 6 hours of inactivity.

Will the system enter Sleep mode when the deionized water is low?

No, the system will not enter Sleep mode if the deionized water is low. When the system detects a low level of deionized water, the software shows the liquid container as empty and "0 L" displays on the User Interface. A saline flush occurs every 2 hours until the system is operational again.

How will I know when the system is in Sleep mode?

When the system is in Sleep mode, the annunciator light stays green, the Errors tab on the User Interface is yellow, and "APSW02 – Instrument in Sleep mode" displays in the error list.

How can I wake the system from Sleep mode?

You can wake the system from Sleep mode by performing any action with a sample, reagent, consumable, or test.

Can I change the configuration settings for Sleep mode?

No, users cannot configure the Sleep mode settings.

What is the benefit of Sleep mode?

The benefit of Sleep mode is a reduction of saline usage. Sleep mode is especially beneficial when the system is idle for extended periods like overnight or a weekend.

System Shutdown

Normal Shutdown

Do the following to shut down the system:

1. Touch Home > Shut Down.
2. When "Do you want to shut down?" displays on the screen, select Yes.

   CAUTION: Moving the power switch to the off position before a system prompt displays on the screen can cause loss of data or a corrupt operating system.

3. Wait until the system completes the clean-up procedure.

   Note: During the clean-up procedure, the system completes all in-process orders, confirms that the Centrifuge is clear, moves partially used cards to the Dual-Purpose Drawer, and flushes the Pipette with deionized water.

4. Wait until "It is now safe to power off the system" displays on the screen.
5. Locate the Power Switch on the right side of the analyzer.
6. Move the Power Switch to the off position.

For more information, see Shut Down the System (page 4-4).

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Emergency Shutdown

If the system does not respond to the normal shut down procedure, do the following to complete an emergency shut down:

1. Touch Stop Processing > Perform Urgent Stop.

2. Wait for the system to shut down.

   Note: During the emergency shut-down procedure, the system stops all tests and marks them as failed, cancels all pending tests, and records the name of the active user.

For more information, see Stop Processing Action Button (page 5-12).

Startup and Shutdown Procedures

Refer to the following procedures in Startup and Shutdown:

Power on the System (page 4-4)

Shut Down the System (page 4-4)

Power on the System

1. Locate the Power Switch on the right side of the analyzer.

2. Move the Power Switch to the on position.

3. Wait for the system to initialize.

Shut Down the System

1. Touch Home > Shut Down.

2. When "Do you want to shut down?" displays on the screen, select Yes.

   CAUTION: Moving the power switch to the off position before a system prompt displays on the screen can cause loss of data or a corrupt operating system.

3. Wait until the system completes the clean-up procedure.

   Note: During the clean-up procedure, the system completes all in-process orders, confirms that the Centrifuge is clear, moves partially used cards to the Dual-Purpose Drawer, and flushes the Pipette with deionized water.

4. Wait until "It is now safe to power off the system" displays on the screen.

5. Locate the Power Switch on the right side of the analyzer.

6. Move the Power Switch to the off position.

   Note: Access to the shut-down screen is based on a user's settings. Contact your system administrator to obtain access.

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4 Storing this Bulletin

- Place this bulletin in the front section of your ORTHO VISION® and ORTHO VISION® Max Analyzer for ID-MTS™ Gel Cards Reference Guide and Editable Self Service Customer Procedure Guide.

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