Configuration and Use of CT Dose Alert and Dose Notification – Biograph mCT and TruePoint Scanners

The purpose of this Step by Step instruction is to assist the customer in setting up and using the Dose Alert and Dose Notification features on their Biograph mCT and TruePoint Scanners

Definitions:

Dose Alert: User is notified if accumulated dose to the patient per study, which may include multiple CT scans, exceeds the preconfigured threshold.

Dose Notification: User is notified if delivered dose to the patient per CT scan exceeds the preconfigured threshold.

Dose Alert Configuration

1. Pull down menu item Options → Configuration

2. Open Examination

3. Select the Dose tab and enter the CTDIvol and DLP thresholds for both Adult and Child.
4. Click **OK** to the Examination configuration.

**Configuring Dose Notification**

1. Pull down the menu **Options** and select **Configuration**.
2. Open **Examination**.
3. On the Dose tab, check the **Dose Notification** box under display options. This will enable the pop up message to be displayed.
4. Next, open **Scan Protocol Assistant** in the Configuration menu. The Scan Protocol Assistant window will open.

![Scan Protocol Assistant](image)

5. For Step 1, select **Change Parameters**.

![Change Parameters](image)
6. For Step 2, select the protocols you wish to configure.

7. For Step 3, enter the desired Dose Notification values for CTDIvol and/or DLP for each of the scan series.
Using Dose Alert

Dose Alert will appear as a pop up message when a cumulative exam dose would exceed a user-defined justifiable value.

1. If you attempt to load a series or repeat a CT scan that would result in a dose that exceeds the configured Dose Alert thresholds, a pop up will alert you. It is not possible to load the examination at this time.

2. The dialog box includes mandatory field for the user name and an optional field for diagnostic reason for requested exposure. After those entries are filled, click Load to proceed.

3. All appearances of the Dose Alert are stored in a retrievable Dose Log in the H:\SiteData\DoseLogs folder.
Using Dose Notification

You are notified if the dose, per CT scan, will exceed the preconfigured threshold.

1. When setting up the CT acquisition, you select LOAD. If the CTDIvol and/or the DLP values exceed the preconfigured thresholds, the value will be highlighted in red.

2. A Dose Notification dialog will also appear. You are requested to enter a diagnostic reason for exceeding the thresholds. Enter the reason and click Load. This entry is optional. It is still possible to load the examination without entering a reason.

3. If Dose Notification values have been configured but the Dose Notification pop up has been disabled in Options → Configuration → Examination, the system will display the proposed CTDIvol and DLP in red if they exceed the configured values.
4. All appearances of the Dose Notification are stored in a retrievable Dose Log in the H:\SiteData\DoseLogs folder.