

CT/AMI

FSN 72800720/88200522

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URGENT - Field Safety Notice

Revision: 01

Medical Device Correction

Ingenuity CT, IQon Spectral CT, iCT, Brilliance 64 CT, Ingenuity TF, Vereos Step and Shoot Incorrect Image Phase Labeling

<Hospital/Clinic Name>

cc: Chairman Medical Board and relevant Head of Departments

Dear Customer,

A problem has been detected in the Philips Ingenuity CT, iCT, Brilliance 64, IQon Spectral CT, Ingenuity TF PET/CT, and Vereos PET/CT scanners, that, if it were to re-occur, could pose a risk for patients or users. This Field Safety Notice is intended to inform you about:

- what the problem is and under what circumstances it can occur
- the actions that should be taken by the customer / user in order to prevent risks for patients or users
- the actions planned by Philips to correct the problem.

This document contains important information for the continued safe and proper use of your equipment

Please review the following information with all members of your staff who need to be aware of the contents of this communication. It is important to understand the implications of this communication.

Please retain a copy with the equipment Instruction for Use.

If you need any further information or support concerning this issue, please contact your local

Philips representative: For North America and Canada, contact the Customer Care Solutions

Center (1-800-722-9377 and follow the prompts).

Healthcare Representative/Modality Engineer: 1800-744-5477 or (Overseas Number).

This notice has been reported to the appropriate Regulatory Agency.

Sincerely,



Holly Wright Lee

Sr. Manager, Post Market Corrections and Removals



Philips Medical Systems (Cleveland), Inc. 595 Miner Road, Highland Heights, Ohio 44143 U.S.A



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AFFECTED PRODUCTS	Ingenuity CT Ingenuity Core 128 Ingenuity Core iCT iCT SP Brilliance 64 IQon Spectral CT Ingenuity TF PET/CT Vereos PET/CT
PROBLEM DESCRIPTION	 There are 3 scenarios users may experience which result in identical images that are incorrectly labeled as phase tolerance images: When performing a Step and Shoot acquisition with phase tolerance selected, images may be reconstructed identically (a single phase), but are labeled as different phases. This occurs when "Start Final Recon" is selected prior to display of the ECG wave at the top of the acquisition window. When performing a Step and Shoot acquisition with phase tolerance selected, images may be reconstructed identically (a single phase), but are labeled as different phases. This occurs if ECG leads become disconnected mid-acquisition or when the acquisition is halted prematurely due to an application crash. By system design, in certain instances when a patient exhibits an arrhythmia or varying heart rate during a Step and Shoot acquisition, images from the acquisition following the heart rate variation, may be
HAZARD INVOLVED	 labeled in the incorrect phase. If phase labeling is incorrect, and not noticed by the clinician, images could be misinterpreted, potentially leading to serious injury due to incorrect treatment. For cases where the images are unable to be used for diagnosis a rescan may be required.





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HOW TO IDENTIFY AFFECTED PRODUCTS	Determine whether you have a potentially affected system, then determine your AFFECTED PRODUCTS software version. To identify the software version of your product: Click the "Help" button Select "About" and the software version is then displayed Software versions 4.x, 3.x, and 2.x are potentially affected
ACTION TO BE TAKEN BY CUSTOMER / USER	 When performing a Step and Shoot acquisition with phase tolerance selected, images may be reconstructed identically (a single phase), but are labeled as different phases. This occurs when "Start Final Recon" is selected prior to display of the ECG wave at the top of the acquisition window. Reconstructed phases display as identical in online reconstruction, but reconstruct correctly during offline reconstruction. This occurs when the user clicks 'Start Final Recon' prior to the Console/Host receiving the ECG wave. Weese review the ECG wave and R tog detection before pressing Start Recon A:x Graphical User Interface example How to avoid in 4.x: Wait until the ECG strip is at the top of the acquisition window to starting the reconstruction.





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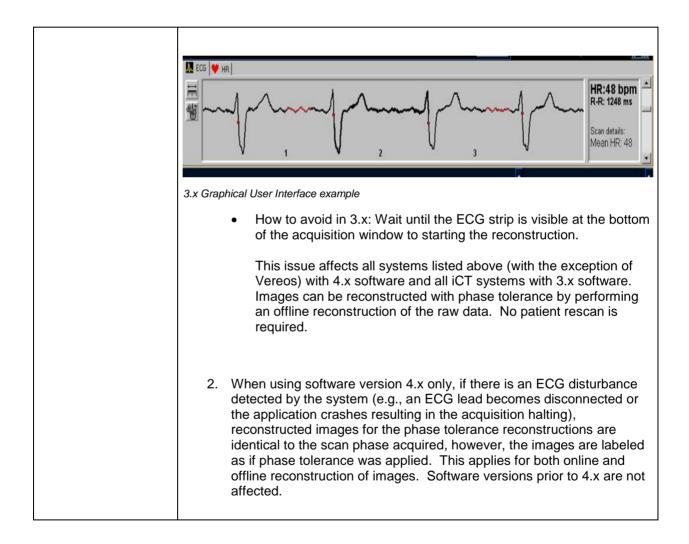
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This can occur with version 4.x software
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Should this occur, the user will receive the following console message:
Exam Application Form ECG leads disconnected. Only untag-reconstruction is possible. OK
 Images will be incorrectly labeled as if phase tolerance has been applied, however, the images will be reconstructed without phase tolerance. How to avoid: Ensure that the leads are securely attached to the patient prior to starting the acquisition and the length of table travel
 When this issue occurs, images may still be used but are not labeled with the correct ECG phase. If images with phase tolerance are needed, a rescan may be required.





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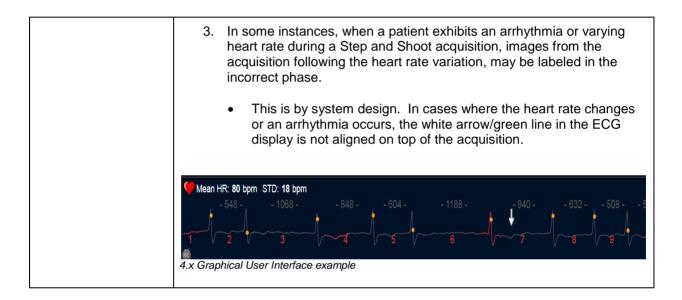
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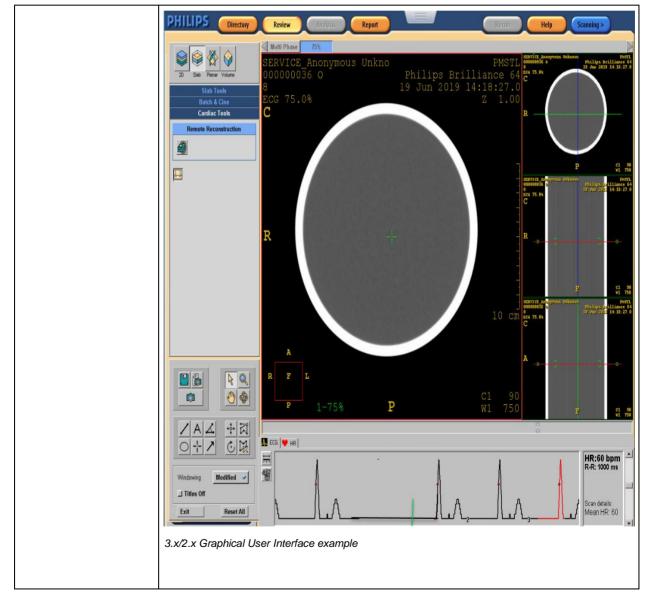
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	 Arrhythmia Compensation Functionality Description: After you start the Step & Shoot Cardiac scan, the planned scanning sequence proceeds normally until an arrhythmia/heart rate change is detected. If X-rays are being generated during the arrhythmia, the irradiation is stopped. The system waits for the heart to stabilize (approximately one heart cycle). Radiation begins again on the next heart cycle. How to avoid: Follow Philips Patient Qualification recommendations as listed in your Instructions for Use: Patient Qualifications Not all patients qualify for the Step & Shoot Cardiac scan. To acquire images with satisfactory image quality, it is recommend that the scanned patient: have a stable heart rate, with mean lower than 75 BPM for iCT/IQon have a stable heart rate, with mean lower than 65 BPM for Brilliance 64, Ingenuity, Ingenuity TF, Vereos have no severe known arrhythmias not be extremely obese And be extremely obese
ACTIONS PLANNED BY PHILIPS	Philips investigation into a potential correction for this issue is still under way. At this time Philips is notifying customers of the issues and steps to take to avoid them while a solution is considered.
FURTHER INFORMATION AND SUPPORT	If you need any further information or support concerning this issue, please contact your local Philips representative: Healthcare Representative/Modality Engineer: 1800-744-5477 or (Overseas Number) North America and Canada, contact the Customer Care Solutions Center (1- 800-722-9377 and follow the prompts).





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Customer Response Form

Please email completed form to: Philips

By signing this form, you acknowledge having received, read, and understood the content of this letter and have taken appropriate actions.

Name (please print)

Title

Signature

Date

Contact information:

Phone

Email

