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Acquisition Features:**0.4 second rotation: The speed of the full 360° rotation provides the basis for high-quality cardiac imaging at a superior temporal resolution.DoseRight Cardiac:**
Our ECG dose modulation reduces the mAs of the X-ray beam up to 80% during acquisition of non-desired phases (for an estimated overall dose reduction to the patient of about 45% for single-phase, end-diastolic imaging). For example, only one phase may be required for a coronary CTA exam, so the system will reduce the mAs during the other portions of the acquisition, saving considerable dose.Retrospective Tagging:
Helical retrospective tagging allows Philips CT systems to acquire a volume of data while recording the patient's ECG. The acquired data is "tagged" and reconstructed at the desired phase(s) of the cardiac cycle with Philips' patented Beat-to-Beat Variable Delay Algorithm. This algorithm automatically tracks each heartbeat and adjusts this delay based on the prior R-R intervals to image the heart at the optimal time, compensating for varying heart rates during a scan. Prospective Gating:

The prospective gating feature automatically triggers axial multislice scan acquisitions on Philips CT scanners using patient information from the ECG monitor. Our prospective gating package uses Philips-patented Beat-to-Beat Variable Delay Algorithm. Only our Beat-to-Beat Algorithm automatically finds the best phase for cardiac CT imaging.Integrated ECG Monitor:
Our integrated ECG monitor with accompanying stand is used to collect the patient's ECG signal and transfer the signal to the scanner for gated cardiac CT imaging. Additionally, the ECG signal is stored on the system for later recall and can be displayed on either the console or the extended Brilliance Workstation (optional). Correlating the ECG waveform to the acquired raw data allows the user to interactively complete raw data reconstructions at different portions of the ECG cycle, which may be useful for correcting reconstruction artifacts caused by irregular heartbeats.

Features:

COBRA Reconstruction (COBRA Cardiac):
Philips 3-D ConeBeam Reconstruction Algorithm (COBRA) along with the adaptive multi-cycle recon algorithm (MaxCycle) automatically adjusts according to the patient's heart rate to deliver the best temporal resolution possible all of the time (as low as 42mseconds) in full 3-D conebeam resolution for stable, clear cardiac imaging. This exceptional technology allows

- **Rate Responsive Features•**
- **0.4 Second Rotation**
- **DoseRight Cardiac**
- **Retrospective Tagging**
- **Prospective Gating**
- **Integrated ECG Monitor**
- **COBRA Reconstruction**

All attempts have been made to ensure accurate data. Medical Imaging Resources, Inc. assumes no responsibility for any unintentional errors or omissions.