

SynChron™

wireless vector gating
system for CT



Improve Throughput

Simplifies patient setup utilizing the first vector gating algorithm for CT.

Automatically triggers from the vector providing optimal signal.

Moves with the table eliminating lead or electrode displacement as the table advances.

Instant Feedback

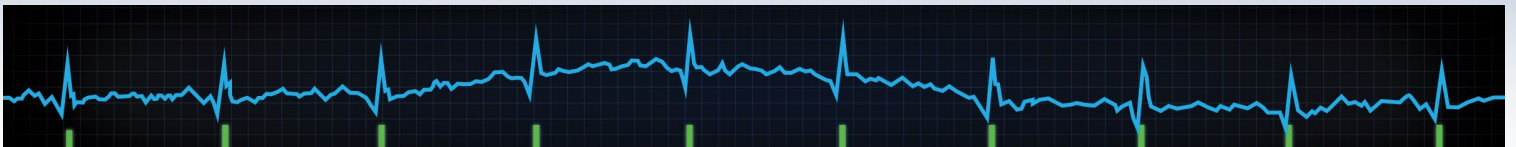
Each patient lead has a dedicated LED, allowing the user to immediately identify a bad connection.

Heart rate displayed on the device.

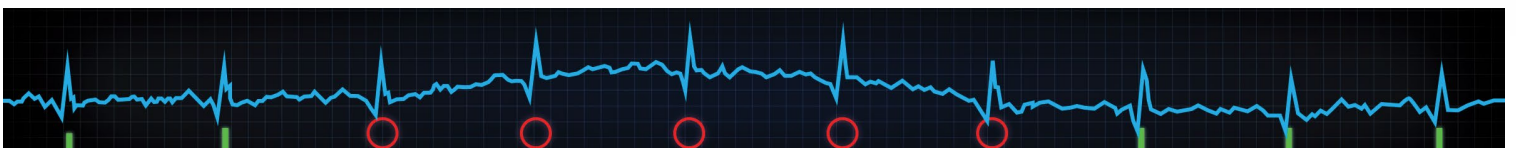
Integration

ECG waveform and trigger signal displayed at the CT gantry and at the operator console eliminating the need for a separate stand alone monitor, reducing room clutter.

Simultaneous data collection from SynChron™ wireless vector gating system and competitive system



SynChron™ wireless vector gating system provides robust trigger detection.






Nonvector gating system did not detect all triggers.

**Data is on file at NeoCoil*

SynChron™ wireless vector gating system by NeoCoil is the first wireless CT gating system and the first CT gating system to utilize vector gating providing robust and reliable gating in a compact efficient design.

The system consists of a small battery powered device that acquires ECG signals from the patient and wirelessly transmits the signals and trigger pulse data to a receive module on the Aquilion CT.

Specifications			
	Physiologic Acquisition Module (PAM)	Receiver Interface Module (RIM)	Battery Charging Dock
L x W x H	13.3cm x 7.6cm x 2.9cm	13.4cm x 15.8cm x 3.4cm	21cm x 12cm x 6cm
Weight	154g	158g	386g
Device	 <p>A compact, lightweight device that acquires the patient's ECG signals and wirelessly transmits ECG waveform and trigger pulses. The PAM is battery powered, which eliminates cumbersome cables to the patient, simplifying setup.</p>	 <p>The RIM receives waveform and trigger pulse data wirelessly from the PAM and outputs them to the scanner via cable connection.</p>	 <p>The system includes a 4-slot charging dock that allows the technologist to charge PAM battery packs when not in use. The charging dock is compact and provides options for either desktop or wall mount.</p>

Device Functions				
PAM	RIM	Charging Dock	Battery / Battery Life	Radio
<ul style="list-style-type: none"> • Initialization • Heart Rate Display • ECG Lead Select • Clear channel assessment at power on • 4x radio redundancy 	<ul style="list-style-type: none"> • Pair • Reset 	<ul style="list-style-type: none"> • Power • Battery Status Indicator • Simultaneous charging of up to 4 battery packs • Charging time < 6 hours 	<ul style="list-style-type: none"> • Removable • Rechargeable Li-Po 3.7V • 1000 mAh • Up to 8 hours of continuous gating • Acute power save mode 	<ul style="list-style-type: none"> • 2.4 GHz ISM band

Compatible Scanners

Aquilion ONE 320, Aquilion ONE 640, Aquilion ONE Vision, Aquilion PRIME 40, Aquilion PRIME 80, Aquilion PRIME 160

