



Upgrade for Apex Gamma Cameras with IM512P/E Acquisition and Processing Software

Features of the new System

- Last generation DSP based Front End and a DAC board to control PMTs and HV.
- The digital front end acquisition interfaces directly with detector signals (analog summer) and replaces all analog front end boards and digital correction & processor hardware: less power consumption, less heat (no fans required), less noise.
- More stable: analog signal path is reduced to a minimum, no signal drifts.
- Smaller footprint: bulky consoles, monitors and keyboard can be removed.
- All boards inside de floor cabinet are removed. Existing HV and LV power supplies are used. Original APEX gantry and detector remain unmodified.
- Six analog input channels. Six high speed / high resolution ADCs. Real time high speed integration of all six channels
- High count rate (>500Kcps) , low dead time (1 μ s typical).
- Valid event detection.
- Pre window energy discrimination.
- Position Normalization.
- Pulse pile-up detection and correction.
- Event buffering
- USB 2.0 (480 Mbps) interface to IM512P Acquisition Software.
- New opto-isolated ECG gating module. Analog ECG interface for standard ECG monitor / gate: digital input for "R" wave synchronization; analog input for ECG waveform display.
- Last generation PC that hosts the IM512P Acquisition and Processing Software linked by a high speed USB2.0 interface.
- Last generation Windows* operating system.
- All image corrections are done in real time by our software
- Final camera specs are usually better than the original (analog front end) camera.

* Windows is a registered trademark of Microsoft Corporation.

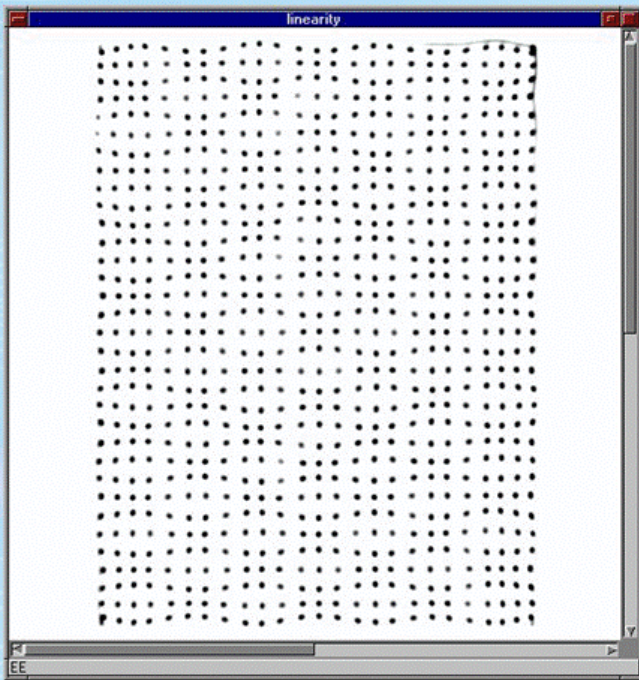
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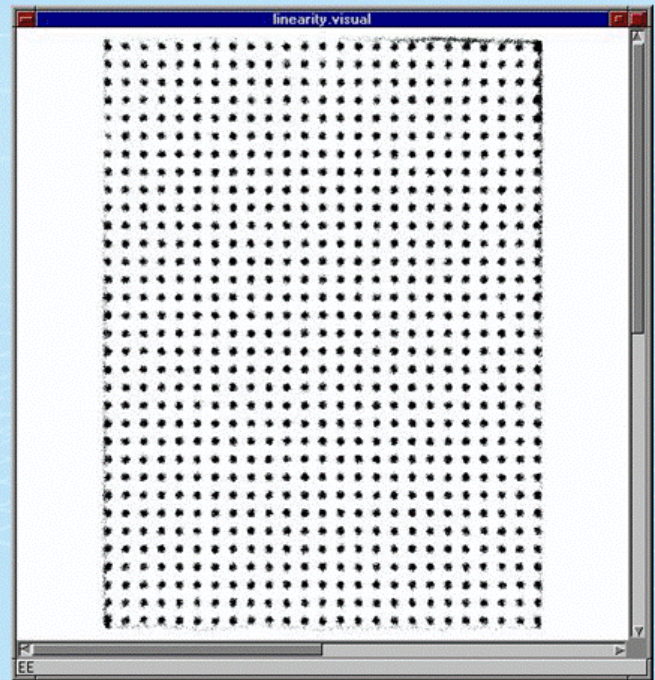
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SP6 HR

Uncorrected Linearity Mask Acquisition



Lin. Mask with Linearity Correction Applied



SP6 HR

Raw Uniformity Flood (all corrections OFF)



Flood with Energy, Linearity & Uniformity ON

