

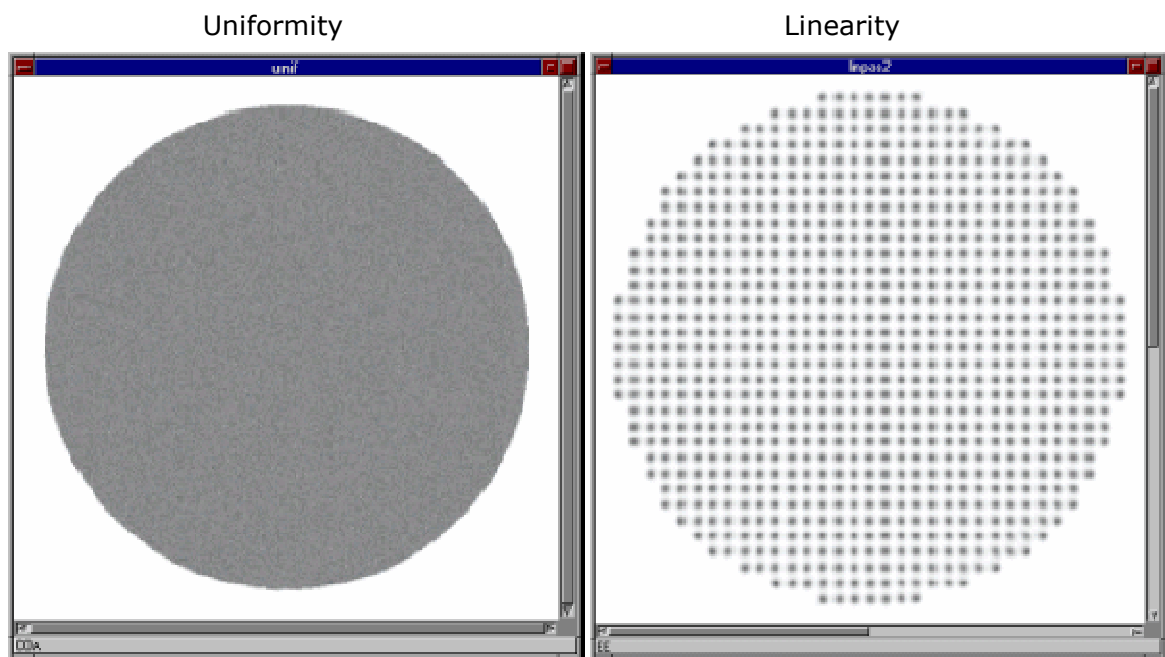
Upgrade of Orbiter Gamma Cameras for using with IM512P/E*

New System Features

- ALL DOT BIN boards removed. DOT terminal removed. All DOT terminal tasks are now done in the IM512P/E.
- Detector energy & linearity correction boards not used anymore.
- Less boards, more reliability.
- Less power consumption, less heat generated.
- New motion controller. New detector controller. New IM512PE acquisition & processing software.
- On the fly energy, linearity, uniformity corrections done by acquisition software.
- Real time isotope spectrum display.
- Intrinsic and user uniformity correction maps for any isotope-collimator pair.
- Better linearity & uniformity specifications.
- Last generation USB V2 Acquisition Interface.
- PC with last generation processor + Windows XP/Vista/7**.
- Easy to Maintain and Upgrade.

Specifications

	Original	IM512P/E Upgrade
Resolution: FWHM UFOV [mm]	3.94	3.92
Resolution: FWTM UFOV [mm]	7.52	7.39
Absolute linearity UFOV [mm]	0.9	< 0.5 (0.35 typ.)
Absolute linearity CFOV [mm]	0.5	< 0.4 (0.30 typ.)
Integral uniformity UFOV [%]	4.3	< 2.5 (1.6 typ.)
Differential uniformity UFOV [%]	3.0	< 2.0 (1.4 typ.)
Maximum raw count rate [kcps]	> 200	> 200
Multiple window registration [mm]	< 2.0	< 2.0



Connectivity

- To and from most of current systems via DICOM.
- Via Interfile to and from systems with this option implemented.
- Exported graphic formats: PCX, JPG, AVI. Can convert local and imported cine displays into standard AVI files to be seen in any Windows** based computer.
- Remote help desk & service via integrated VNC® with file transfer.

* Orbiter is a trademark of Siemens Medical Systems Inc.

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