



UltraSPECT Connectivity Solutions

Revision 08-2011



1. New Added Connectivity Solutions

- a. **Philips Brightview SPECT/CT camera support with ACSC**
- b. **Philips EBW workstation**
- c. **Philips – Jetstream workstation – Gated Cardiac processing**
- d. **Optima – legacy GEMS Cardiac Camera**

2. Camera direct connection scheme

A direct connectivity scheme is presented on Fig 1. below.

In this configuration:

- the raw data (projections) acquired by the camera is automatically sent to the UltraSPECT.gate processing unit;
- the raw projections data sent from the acquisition station is in standard DICOM format
- UltraSPECT.gate processing unit performs automatic WBR processing and transfers the raw data and reconstructed transaxial slices in DICOM format to processing/ viewing station for the further clinical processing.

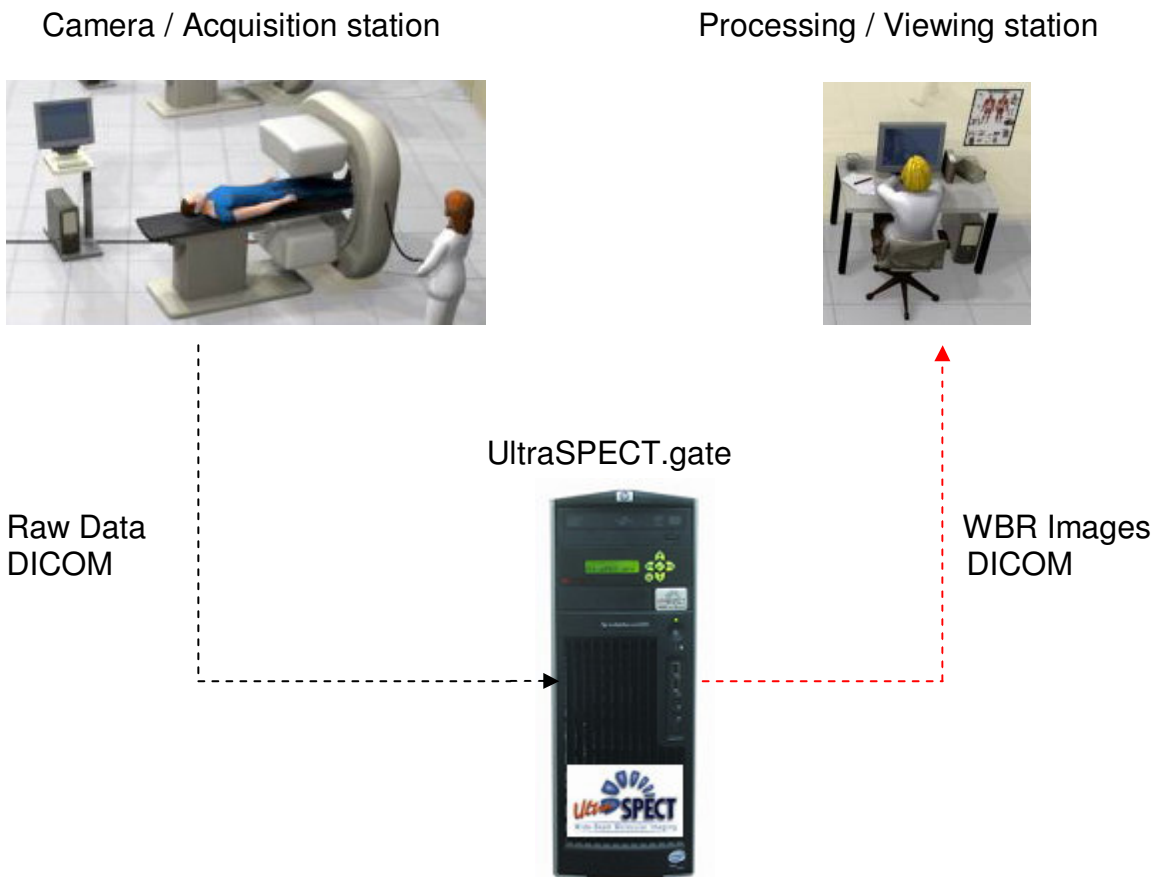


Fig 1. Direct UltraSPECT.gate connectivity configuration

3. Workstation connection scheme

The alternative connectivity configuration scheme is presented on Fig. 2. This scheme is very generic and provides connectivity solutions for the old gamma cameras, which do not have an option to create and send projections in DICOM format.

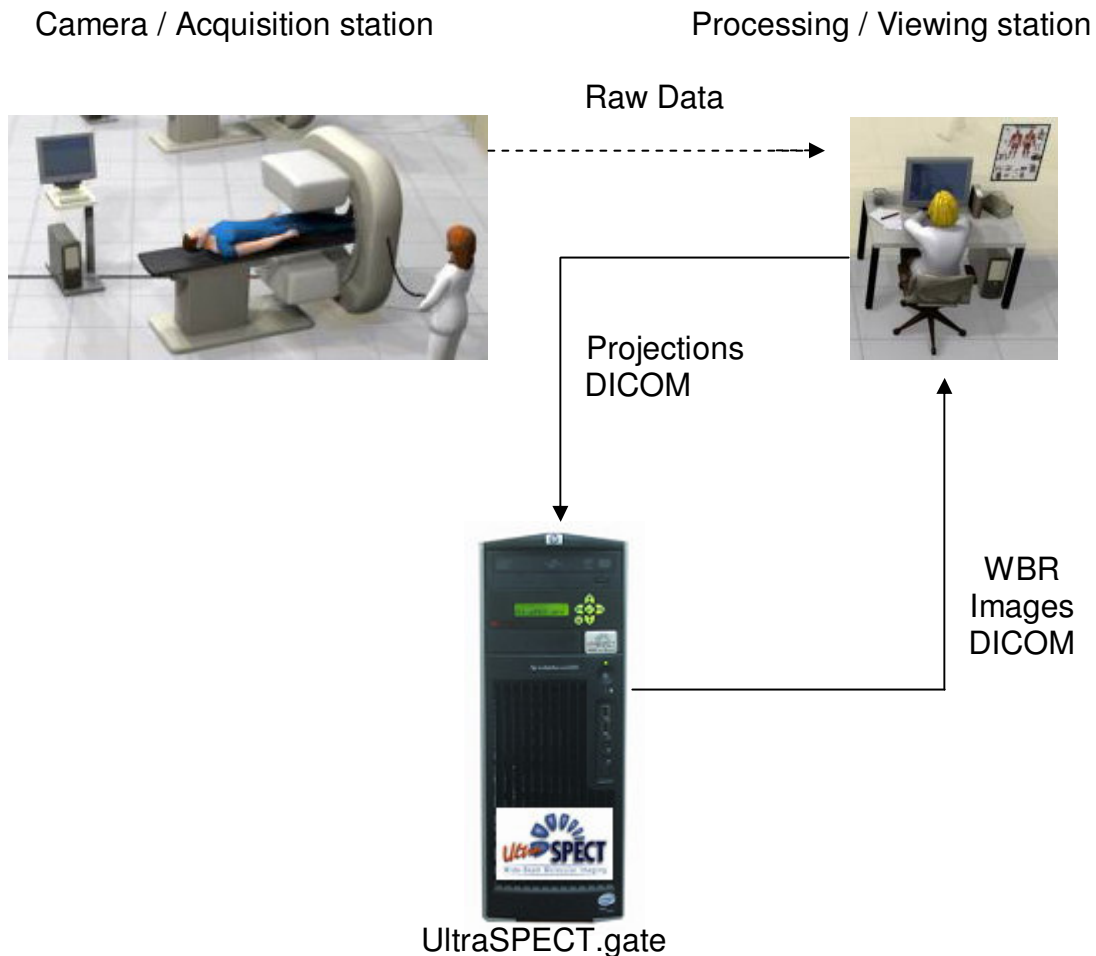


Fig 2. Workstation UltraSPECT.gate connectivity configuration

4. Connectivity between the UltraSPECT.gate and workstations

Company	Workstations / SW versions	Comments
GEMS	Entegra v 2.5	DICOM connectivity
GEMS	Xeleris v 1	DICOM connectivity
GEMS	Xeleris v 2	DICOM connectivity
GEMS Elscint	Xpert v 5.5	Bone support only, Cardiac data can be sent through Xpert to UltraSPECT.gate for processing
Philips	Pegasys v4.2 & 5.0	Non DICOM Connectivity- Native ADAC format
Philips	JetStream EBW	DICOM connectivity . New SW (Ver 3.33) solves Jetstream problem of saving gated short axis images. Support EBW processing with CT attenuation correction
Siemens	e.Soft v 2.5 - 6	DICOM connectivity
Medx	NuQuest	Full Connectivity, workstation serves as a Gate for connectivity to all old cameras (Optima GEMS, Orbiter)
Segami Picker – Philips	Mirage v 5.3 Oddysee v	DICOM Connectivity DICOM Connectivity

Table 1. Connectivity – UltraSPECT.gate - workstations

5. Connectivity between the UltraSPECT.gate and cameras

Vendor	Camera	Connectivity scheme - Direct /WS	Comments
GEMS			
	Ventri	Direct / WS	
	Infinia / Infinia Hawkeye	Direct / WS	
	Varicam/ VG	Direct / WS	
	MG/ Magicam / Myosight/ MC	Direct / WS	Acquisition version GenieAcq 4 and up.
	SPX-4	WS	
	SPX-6	WS	
	Helix	WS	
	Cardial	WS	
	Starcam	WS	
	Optima	WS	NuQuest (MedX) , Validated
	XCT/XRT	WS	
	400 ACT	WS	
	APEX	WS	
	Maxxus 4000i	WS	
Philips			
	BrightView XCT	Direct	
	CardioMD	Direct	
	SKYlight	WS	
	Argus/Genesys	WS	
	Axis/Irix	WS	
	Forte	WS	
	Vertex Plus	WS	

Siemens			
	Symbia T-T16	Direct	
	Symbia	Direct	
	c-Cam	WS	
	e-Cam	WS	
	Orbiter	WS	
SMV			
	DST-Xli		Verified
MedX	C-Quest		
Positron	IS2-Pulse		

Table 2. Connectivity – UltraSPECT.gate - cameras

6. Collimators support

All LEHR collimators are supported.