

*Ангиографической системы сверхвысокого разрешения с конвейерной 2D обработкой и визуализацией реального времени и интегрированным компьютерным томографом высокого разрешения 100мкм.*

<b><i>Микросекундный рентгеновский детектор</i></b>	MSR-100mkm "COURSE-ASI"
Interface Detector connection	PCI-e v.2.0
Active Pixel Area	400mm(h) x 300mm(v) (16" x 12")
Pixel matrix	4000(h) x 3000(v)
Pixel Pitch	100 mkm * 100 mkm
Limiting resolution	~ 5.0 lp/mm @ 60 FPS ( binning 1x1) ~ 2.5 lp/mm @ 240 FPS ( binning 2x2)
Maximal Acquisition Frames <b>Fluoro, Cine/DA, DSA</b>	60 FPS @ 4000x3000x12b (binning 1x1) = 12Mp 240 FPS @ 2000x1500x12b (binning 2x2) = 3Mp 60 FPS @ 2000x1500x14b (binning 2x2) = 3Mp
Minimal Acquisition Frames	0.25 FPS
Dynamic Range Fluoro Mode	From 4000 (12bit) up to 16000 (14bit) in to 16b
Dynamic Range X-Ray Frame & DSA	Up to 16000 (14bit) in to 16b (64000)
Energy Range. Work Temperature Range.	(20 – 160) kV. (0 – 40)C°
Size X-Ray Detector	380mm x 460mm x 360mm
<b><i>Микросекундный рентгеновский генератор</i></b>	
High voltage, Power imp., Power integ.	40 – 150 kV, 15/30kW, 0.75/1.5kW
Focus, duty cycle	0.10x0.10 / 0.15x0.15 / 0.30x0.30 mm, >=20:1
Stereo Fluoro, Cine	Dual cathode mode of operation
<b><i>Real Time Video Processor</i></b>	19" 4U Sixteen Core/ 64GB RAM/ 2 x 4GB Video Memory
Real Time Conveyor Video Processing & Visualization	16b Real Time Video Processing & Visualization
- Size frames of RT Processing	<= 4000 x 3000 pixels (12.0 Mpix)
- Size frames of RT Visualization	<= 2666 x 2000 pixels (4.0 Mpix)
DSA acquisition mode (max)	60 FPS @ 4000 x 3000 ( binning 1x1) = 12 Mp 240 FPS @ 2000 x 1500 ( binning 2x2) = 3 Mp
Operation Video Memory Ring Buffer <b>Fluoro, Cine</b> <b>DA &amp; DSA</b>	Up to 16 GB RAM Up to 8 GB RAM
Operation Images Storage Buffer	PCI-e SSD RAID 2000GB (1.5 GB/s)
X-Ray Generator Impulse Control	for Fluoro & Cine (1ms -:- 40ms) for DA & DSA (4ms -:- 0.25s)
X-Ray Generator kV & mA Control	
Video Monitor for 2 or 1 images Монитор изображения на 2 кадра	DICOM Diagnostic monitor 36" 4096x2160x10b (8.8Mpix)
<b><i>DICOM Image Monitors:</i></b>	Interface – (HDMI or DPort)/monitor
! for 1 images ! 4000 x 3000, zoom = ~1:1	27" DICOM monitor 5120 x 2880 pix (15Mp)
! for 2 images ! 2000 x 1500, zoom = ~1:2	31.5" DICOM monitor 3840 x 2160 pix (8.3Mp)
Control Monitor	24" DICOM monitor 1920 x 1200 pix (2.3Mp) DVI, DP, HDMI 1.4.
DICOM Standard	DICOM 3.0
DICOM Server Data Base	In Firebird 2.0 Client-Server DB
DICOM Server Storage	(16 -:- 24)TB in RAID 60 HDD