Digital 3D systems	overview	version as of Nov 20				
type of solution			single projector			dual projector
	PAND beyond ciness	DOLBY. 3D DIGITAL CINEMA	The Premier Digital 3D Experience	master mage The next paradigm of display	SONY	
	XPAND (formerly NuVision)	Dolby	RealD	masterImage	Sony CineAlta supports specific RealD-variant	2K-DLP-projectors "do it yourself - 3D"
basic technology	active shutter glasses + triple flash	colour wavelength modulation + triple flash	active circular polarisation + triple flash	rotating polarisation filters	simultaneous & parallel projection of 2 pictures from a single projector	polarisation / simultaneous & parallel projection of 2 pictures with 2 projectors
screen	matt white or perlux	matt white or perlux	"silver screen" (gain 2.6 or higher)	"silver screen" (gain 2.6 or higher)	"silver screen" (gain 2.6 or higher)	"silver screen" (gain 2.6 or higher)
max. screen size evaluation	15 meters Xpand also provide "alternative content" in 3D		25 meters business model is license model + issues with 2D- projection onto silverscreen ("hotspotting")	tbc business model is license model + issues with 2D- projection onto silverscreen ("hotspotting")		30 meters  cost of 2 projectors + issues with 2D-projection onto silverscreen ("hotspotting")
	old style (top), new style (bottom)	CLISSARY STUD	60 REALD	0	GO REALD	
type of glasses workflow	active (with batteries) dispensation, collection after	passive Dolby-type dispensation, collection after	passive Real-D-type disposable-use or	passive disposable-use or	passive Real-D-type disposable-use or	passive disposable-use or
	screening & cleaning mandatory	screening & cleaning mandatory	"Katzenberg"-clip, dispensation, collection after screening & cleaning imaginable, but not reality low	"Katzenberg"-clip, dispensation, collection after	"Katzenberg"-clip, dispensation, collection after	"Katzenberg"-clip, dispensation, collection after screening & cleaning imaginable, but not reality low
cost of glasses evaluation	high life expectancy limited by					
		small glasses, limited field of view, wear & tear, theft risk			environmental issue / collection & re-use of glasses prefered	environmental issue / collection & re-use of glasses prefered
					RealD-static circular	
	emitter to sync active shutter		"Z-screen" in front of projector	(acc above)	polarisation filters to be	static polarisation filters (one in
type of projector	glasses 2K-DLP	inside PJ 2K-DLP	lens + controller 2K-DLP	(see above) 2K-DLP	installed in Sony 3D-adaptor 4K-SXRD	front of each projector's lens) 4K-SXRD oder 2K-DLP
supported servers	all (but Sony)	Dolby, Doremi, XDC	all	tbc (will need to support triple- flash)	Sony media-block LMT-200	all (Sony would need two servers to be synced)
light efficiency	middle	low	high	tbc	rather high	superior
technical quality	In best case full 2K, 10 Bit, 4:2:2, old installations with lower resolution		in best case full 2K, 10 Bit, 4:2:2, old installations with lower resolution	in best case full 2K, 10 Bit, 4:2:2, old installations with lower resolution	true 2K, 12 Bit; 4:4:4	true 2K, 12 Bit; 4:4:4
quality evaluation		triple-flash-artefacts, sequential projection might cause eye- and brain-fatigue + limited field of view limits 3D-experience in particular in the front rows needs "ghostbusting" (to	triple-flash-artefacts, sequential	projection might cause eye-	dual-projector quality from a single projector solution / "easy on the eye" needs "ghostbusting" (to	dual-projector-quality, might have visual geometry issues, head movements critical if only linear polarisation is used
particular requirements for		compensate crosstalk between	compensate crosstalk between		compensate crosstalk between	
DCP subjetive quality	none		left- and right-eye-images)	tbc	left- and right-eye-images)	none excellent (in case of circular
options	good	fair (good)	good	good	excellent 60Hz-playback for alternative	polarisation) 60Hz-playback for alternative
portability between	./.	./. no, colourwheel installed in	./. possible (requires silver screen	./. possible (requires silver screen	content possible (requires silver screen	content
screens	possible	individual projectors	in all cinema auditoria)	in all cinema auditoria) How long will distributors /	in all cinema auditoria)	no, needs 2 projectors
cost	theft of glasses, workflow issues, limited life expectancy	colorwheel might cause	How long will distributors / studios supply glasses free of charge with the movie?	studios supply glasses free of charge with the movie? Seems like a sort of adventurous /	How long will distributors /	studio support might become an issue (in particular with Disney), geometrical distortion, reliability of setup
			license model includes z- screen & software, requires silver screen		screen & software, requires silver screen (same as 2K-	2nd projector + filters + silverscreen required
remarks					CURRENTLY ONLY	currently NOT SUPPORTED BY SONY WITH 4K-SXRD