



RAW SERVER

Technical Specifications



	RAW SERVER	4k1	4k2	4k3	4k4	Options
Product Type	Uncompressed Media Server					
Available models	Quad					
Art. Nr.		SMW-RW41	SMW-RW42	SMW-RW43	SMW-RW44	
Physical						
Case Dimension (WxDxH)	446 x 715 x 178mm					
Max. Product Dimension*	482 x 796 x 178mm					
Product Weight		25,4kg	25,8kg	26,2kg	31,4kg	
Shipping Dimension	595 x 930 x 310mm					
Shipping Weight		37,2kg	37,6kg	38kg	43,2kg	
Hardware						
Server Grade Hardware Components	Yes					
CPU Type	Intel Xeon					
CPU # of Cores/# of Threads	8/16					
CPU Frequency	3,4GHz					
RAM	64GB					
ECC RAM	Yes					

Power		4K1	4K2	4K3	4K4	Options
Power Supply	100-240VAC, 50-60Hz					
Power Consumption Peak	1000W					
Power Consumption Average with High Load*)		480W	480W	480W	620W	
Redundant Power Supply Hot-Plug	Yes					
Operating System Storage						
Operating System Amount of Physical SSDs	2					
Operating System Capacity (Net)	480GB					
Operating System RAID Level	RAID 1					
Data Storage						
Data Storage Amount of Physical SSDs		8	16	24	32	
Data Storage Capacity (Net)		1,92TB	3,84TB	5,76TB	7,68TB	15,36TB 30,72TB 61,44TB 92,16TB
Data Storage RAID Level	RAID 10					
Data Storage Max. Read Rate		1,85GB/s	3,7GB/s	5,55GB/s	7,5GB/s	
Data Storage Max. Read Rate with Defective SSD		1,75GB/s	3,5GB/s	5,25GB/s	6,4GB/s	
Seamless Playback with Defective SSD	Yes					
Uncompressed Content Playback		1x 4k60	2x 4k60	3x 4k60	4x 4k60	
Playback Duration Uncompressed Content (Single Stream)		21min (4k60)	42min (4k60)	64min (4k60)	85min (4k60)	170min 340min 680min 1020min (4k60)
Video Outputs						
Licensed Video Outputs	4					
Physical Video Outputs	4					
Video Output Standard	DP1.2					
Video Output Resolution (Max.)	4096x2160 @60Hz					
EDID Management	Yes					
Genlock	Yes					
Framelock	Yes					
GUI Outputs						
GUI Outputs	2					
GUI Output Standard	1x DVI, 1x DP1.2					
Max GUI Output Resolution	DVI: 1920x1200, DP1.2: 4096x2160					

Connection		4K1	4K2	4K3	4K4	Options
USB	2x USB2 Front, 6x USB3 Back					
Network (Not all configs possible*)	2x 10 Gbps				(max. 270MB/s)	
Video Inputs (Not all configs possible*)						
DVI/RGB/YUV	-					2
HDMI 2.0	-					2
3G-SDI	-					2 4 8
Audio (Not all configs possible*)						
Analog Unbalanced Out	Stereo (3,5mm TRS)					2 (RCA), Stereo-Phones (6,3mm TRS)
Analog Balanced Out	-					4 (6,3mm TRS)
SPDIF Out	-					1 (RCA)
AES Out	-					1 (XLR)
ADAT Out	-					1 (Optical)
ADAT In	-					1 (Optical)
Analog Balanced In	-					-
MIDI	-					In/Out
Environmental Specifications - Operating						
Temperature (altitude less than 1000m, no direct sunlight)	10°C to 30°C					
Maximum Temperature Gradation	10°C per hour					
Temperature De-Rating (altitude more than 1000m)	Reduce max. temp. by 1°C per 300m					
Maximum Altitude	3000m					
Relative Humidity (noncondensing)	20%RH to 80%RH					
Maximum Humidity Gradation	10%RH per hour					
Environmental Specifications -Storage						
Temperature (no direct sunlight)	-30°C to 55°C					
Maximum Temperature Gradation	20°C per hour					
Relative Humidity (noncondensing)	5%RH to 95%RH					
Maximum Humidity Gradation	10%RH per hour					

General		4K1	4K2	4K3	4K4	Options
Warranty	2 years					
Optional Warranty	Total 3 4 5 years					

Software						
Software - OS		4K1	4K2	4K3	4K4	Options
Operating System	Windows 7					
Software - Pixera						
Pixera Software License	Pixera Server					
Vioso Camera Calibration	Optional					
Layers	Unlimited					
Playout	Unlimited					
Local Editing	Yes (GUI Output recommended)					
3D Visualisation	Yes (GUI Output recommended)					
Network Master / Manager	Yes					
Rendering (Output, Visu)	Yes (GUI Output recommended)					
Avio License	Avio Basic					
Avio Manager	Yes					

FHD = 1920x1080, Uncompressed Datarate at 60fps = 360MB/s

UHD = 3840x2160, Uncompressed Datarate at 60fps = 1,4GB/s

4k = 4096x2160, Uncompressed Datarate at 60fps = 1,5GB/s

* Power Consumption Average with High Load = Tested with very high CPU, GPU and SSD load

* Not all configs possible = Not all configurations of video input, network, audio cards are possible. Please ask.

* Wings Engine OS = Based on Windows embedded x64

* Max. Product Dimension = Product dimension incl. front handles, back handles, rubber bumpers, etc.. Handles can not be removed on all products!

