



# WINGS ENGINE RAW

Technical Specifications

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Technical product details



	WINGS ENGINE RAW	4k1	4k2	4k3	4k4	Options
Product Type	Uncompressed Media Server					
Available models	Quad					
Art. Nr.		SMW-RW41	SMW-RW42	SMW-RW43	SMW-RW44	
<b>Physical</b>						
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	
<b>Hardware</b>						
Server Grade Hardware Components	Yes					
CPU Type	Intel Xeon					
CPU # of Cores/# of Threads	8/16					
CPU Frequency	3,2GHz					
RAM	64GB					
ECC RAM	Yes					
Touch Display	-					

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					
<b>Operating System Storage</b>						
Operating System Amount of Physical SSDs	2					
Operating System Capacity (Net)	480GB					
Operating System RAID Level	RAID 1					
<b>Data Storage</b>						
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)
<b>Video Outputs</b>						
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					
<b>GUI Outputs</b>						
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 Gbps	2x 10Gbps	2x 10Gbps	2x 10Gbps	2x 10Gbps (max. 270MB/s)	
<b>Video Inputs (Not all configs possible*)</b>						
DVI/RGB/YUV	-					2
HDMI 2.0	-					2
3G-SDI	-					2   4   8
<b>Audio (Not all configs possible*)</b>						
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
<b>Software</b>						
Operating System	Wings Engine OS*					
Backup and Snapshot Manager	Yes					
Wings Vioso Software	Wings Vioso RX Pro					
Vioso Camera Calibration	Any surface, Multi Client					
Video Layers	Unlimited					
Image Layers	Unlimited					
Audio Layers	Unlimited					
Show Control Layers	Unlimited					
Marker Layers	Unlimited					
Group Layers	Unlimited					
Performance Monitoring	Yes					
Offline Preview	Yes					

		4K1	4K2	4K3	4K4	Options
Wings Avio	Avio Advanced					Avio PR   PM   UT
Avio Manager	Yes					
Wings Touch	Yes					
<b>Environmental Specifications - Operating</b>						
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					
<b>Environmental Specifications -Storage</b>						
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					
<b>General</b>						
Warranty	2 years					
Optional Warranty	Total 3   4   5 years					

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!

