



WINGS ENGINE STAGE

Technical Specifications



Product Type	Ruggedized Media Server	Options
Available models	Quad	
Art. Nr.	SMW-S4	
Physical		
Case Dimension (WxDxH)	434 x 720 x 222mm	
Max. Product Dimension*	482 x 760 x 222mm	
Product Weight	34kg	
Shipping Dimension	550 x 820 x 340mm	
Shipping Weight	37,8kg	
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	
Touch Display	8,9" with full GUI	
Power		
Power Supply	100-240VAC, 50-60Hz	
Power Consumption Peak	1000W	
Power Consumption Average with High Load*)	410W	
Redundant Power Supply Hot-Plug	-	

Operating System Storage		
Operating System Amount of Physical SSDs	1	
Operating System Capacity (Net)	240 GB	
Operating System RAID Level	-	
Data Storage		
Data Storage Amount of Physical SSDs	2	
Data Storage Capacity (Net)	1,9TB	3,8TB 7,6TB
Data Storage RAID Level	RAID 0	
Data Storage Max. Read Rate	1GB/s	
Data Storage Max. Read Rate with Defective SSD	-	
Seamless Playback with Defective SSD	-	
Uncompressed Content Playback	2x FHD60	
Playback Duration Uncompressed Content (Single Stream)	92min (FHD60)	
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		
USB	2x USB3 Front, 3x USB3 Back	
Network (Not all configs possible*)	2x Gbps	
Video Inputs (Not all configs possible*)		
DVI/RGB/YUV	2	4
HDMI 2.0	-	2 4
3G-SDI	2	4 8
Audio (Not all configs possible*)		
Analog Unbalanced Out	Stereo-Phones (6,3mm TRS)	
Analog Balanced Out	6 (6,3mm TRS)	
SPDIF Out	1 (RCA)	
AES Out	1 (XLR)	
ADAT Out	1 (Optical)	
ADAT In	1 (Optical)	
Analog Balanced In	2 (6,3mm TRS)	
MIDI	-	

Software		
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	
Wings Avio	Avio Advanced	Avio PR PM UT
Avio Manager	Yes	
Wings Touch	Yes	
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 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		
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!

