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					
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					
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
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					

		4K1	4K2	4K3	4K4	Options
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 Termperature 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 Termperature 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!

STAGE SERVER

Technical Specifications

Product Type	Rugedized 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	
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 Termperature 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 Termperature 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!

WINGS PLAYER

Technical Specifications

	WINGS PLAYER	LITE	PRO	Options
Product Type	Compact Media Server			
Available models	Single | Dual | Triple			
Art. Nr.		SMP-LT1 | ..LT2 | ..LT3	SMP-PR1 | ..PR2 | ..PR3	
Physical				
Case Dimension (WxDxH)	354 x 218 x 90mm			
Max. Product Dimension*	354 x 218 x 94mm			
Product Weight	5kg			
Shipping Dimension	405 x 305 x 150mm			
Shipping Weight	6kg			
Hardware				
Server Grade Hardware Components	Yes			
CPU Type	Intel i7			
CPU # of Cores/# of Threads	4/8			
CPU Frequency	3,4GHz			
RAM	16GB			
Power				
Power Supply	100-240VAC, 50-60Hz			
Power Consumption Peak	450W			
Power Consumption Average with High Load*)	150W			

Operating System Storage				
Operating System Amount of Physical SSDs	1			
Operating System Capacity (Net)	256GB			
Data Storage				
Data Storage Amount of Physical SSDs	1			
Data Storage Capacity (Net)		240GB	480GB	
Data Storage Max. Read Rate	500MB/s			
Video Outputs				
Licensed Video Outputs	Single: 1 | Dual: 2 | Triple: 3			
Physical Video Outputs	4			
Video Output Standard	MiniDP1.2			
Video Output Resolution (Max.)	4096x2160 @60Hz			
EDID Management	Yes			
Connection				
USB	2x USB3 Side, 6xUSB3 Back			
Network (Not all configs possible*)	2x Gbps			
Audio (Not all configs possible*)				
Analog Unbalanced Out	Stereo (3,5mm TRS)			
Software				
Operating System	Wings Engine OS*			
Backup and Snapshot Manager	Yes			
Wings Vioso Software		Wings Vioso RX Lite	Wings Vioso RX Pro	
Vioso Camera Calibration		Flat surface/2D, Single Client	Any surface, Multi Client	
Video Layers		Single: 2 | Dual: 4 | Triple: 6	Unlimited	
Image Layers	Unlimited			
Audio Layers	Unlimited			
Show Control Layers	Unlimited			
Marker Layers	Unlimited			
Group Layers	Unlimited			
Performance Monitoring	Yes			

		Avio Lite	Avio Advanced	Avio AD|PR|PM|UT
Offline Preview	Yes			
Wings Avio		Avio Lite	Avio Advanced	Avio AD|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 Termperature 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 Termperature 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!

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Technical information contained in this document is subject to change without prior notice. Should you need further clarification/information, please contact AV Stumpfl directly.

AVIO MASTER

Technical Specifications

AVIO MASTER
Technical product details

	Avio Master
Product Type	Solid State Show Controller
Available models	Lite | Advanced | Pro | Premium | Ultimate
Art. Nr.	SCI-AM/LT | ..AD | ..PR | ..PM | ..UT
Physical	
Case Dimension (WxDxH)	116 x 110 x 65mm
Max. Product Dimension*	116 x 110 x 65mm
Product Weightw	0,8kg
Shipping Dimension	170 x 170 x 130mm
Shipping Weight	1,5kg
Hardware	
Server Grade Hardware Components	Yes
CPU Type	Intel Celeron
CPU # of Cores/# of Threads	4/4
CPU Frequency	1,83GHz
RAM	8GB
Power	
Power Supply	100-240VAC, 50-60Hz
Power Consumption Peak	36W
Power Consumption Average with High Load*)	18W
Operating System Storage	
Operating System Amount of Physical SSDs	1 (shared with Data)
Operating System Capacity (Net)	39GB
Data Storage	
Data Storage Amount of Physical SSDs	1 (shared with OS)
Data Storage Capacity (Net)	117GB
Data Storage Max. Read Rate	250MB/s
GUI Outputs	
GUI Outputs	2
GUI Output Standard	HDMI
Max GUI Output Resolution	1920x1200

Connection	
USB	1x USB3 Front, 1x USB2 Front, 2x USB2 Back
Network (Not all configs possible*)	2x Gbps
Audio (Not all configs possible*)	
Analog Unbalanced Out	Stereo (3,5mm TRS)
Software	
Operating System	Wings Engine OS*
Backup and Snapshot Manager	Yes
Wings Vioso Software	Wings Avio Master
Video Layers	2
Image Layers	2
Audio Layers	Unlimited
Show Control Layers	Unlimited
Marker Layers	Unlimited
Group Layers	5
Offline Preview	Yes
Wings Avio	Avio Lite|Advanced|Pro|Premium|Ultimate
Avio Manager	Yes
Wings Touch	Yes
Environmental Specifications - Operating	
Temperature (altitude less than 1000m, no direct sunlight)	10°C to 30°C
Maximum Termperature 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 Termperature 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!