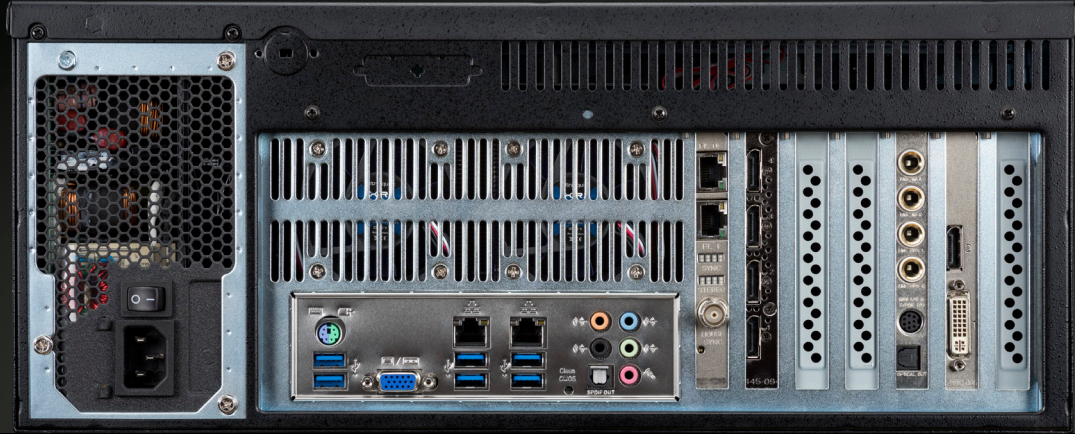




# WINGS ENGINE PRO

Technical Specifications



<b>Product Type</b>	<b>Universal Media Server</b>	
Available models	Dual   Triple   Quad	
Art. Nr.	SMW-PR2   ..PR3   ..PR4	
<b>Physical</b>		
Case Dimension (WxDxH)	428 x 506 x 178 mm	
Max. Product Dimension*	485 x 546 x 178 mm	
Product Weight	26kg	
Shipping Dimension	590 x 680 x 340mm	
Shipping Weight	32,3kg	
<b>Hardware</b>		
Server Grade Hardware Components	Yes	
CPU Type	Intel i7	
CPU # of Cores/# of Threads	8/16	
CPU Frequency	3,0GHz	
RAM	16GB	
ECC RAM	-	
Touch Display	-	
<b>Power</b>		
Power Supply	100-240VAC, 50-60Hz	
Power Consumption Peak	1000W	
Power Consumption Average with High Load*)	320W	
Redundant Power Supply Hot-Plug	-	

<b>Operating System Storage</b>		
Operating System Amount of Physical SSDs	1	
Operating System Capacity (Net)	240GB	
Operating System RAID Level	-	
<b>Data Storage</b>		
Data Storage Amount of Physical SSDs	1	
Data Storage Capacity (Net)	480GB	480GB   960GB   1,92TB   3,84TB
Data Storage RAID Level	-	
Data Storage Max. Read Rate	500MB/s	
Data Storage Max. Read Rate with Defective SSD	-	
Seamless Playback with Defective SSD	-	
Uncompressed Content Playback	-	
Playback Duration Uncompressed Content (Single Stream)	-	
<b>Video Outputs</b>		
Licensed Video Outputs	Dual: 2   Triple: 3   Quad: 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	
<b>Connection</b>		
USB	2x USB2 Front, 6x USB3 Back	
Network (Not all configs possible*)	2x Gbps	
<b>Video Inputs (Not all configs possible*)</b>		
DVI/RGB/YUV	Dual, Triple: 1   Quad: 2	2   4
HDMI 2.0	-	2   4
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	
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!

