PIXERA mini Rev. 2

Basic technical specifications

PIXERA mini Rev. 2
Technical product details

Product	PIXERA mini
Available models	PIXERA mini Dual | Quad
Art. Nr.	PXM-2 | PXM-4
Physical	
Case Dimension (WxDxH)	215 x 230 x 44,4mm
Max. Product Dimension*	PXM: 215 x 230 x 44,4mm | PSU: 63 x 190 x 41mm
Product Weight	PXM: 2,5kg | PSU: 0,6kg
Shipping Dimension	500 x 310 x 110mm
Shipping Weight	4,5kg
Hardware	
CPU Type	Intel Core i5
CPU # of Cores / # of Threads	6/6
CPU Min/Max Frequency	2,4/4,4GHz
RAM	8GB
RAM Channels used	2
Power	
Power Supply	100-240VAC, 50-60Hz
Power Consumption Peak	150W
Power Consumption Average with High Load*)	120W
Heat Dissipation Peak	520BTU/h
Heat Dissipation Average with High Load*)	410BTU/h
Operating System + Data Storage NVMe	
Data NVMe Amount of Physical Drives	1
Data NVMe Capacity (Net)	500GB (optional 1,9TB)
Data NVMe max. Constant Read Rate	1,6GB/s
Video Outputs	
Licensed Video Outputs	PIXERA Director | 2 | 4
Physical Video Outputs	4 (4xFHD, or 1x4k)

Video Output Standard	mDP1.4a
Video Output Resolution (Max.)	4096x2160 @60Hz
EDID Management	Yes
Connection	
USB	1x USB2 Front, 4x USB3 Rear
Network	2x 1Gbps
Audio Outputs (Not all configs possible*)	
Analog Unbalanced	Stereo (3,5mm TRS)
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 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

Software	
Software - OS	
Operating System	Windows 10 IoT x64
Software - PIXERA	
PIXERA Software License	PIXERA Server
Vioso Software License	Optional (Autocal, Autocal Plus)
Layers	Unlimited
Playout	Unlimited
Local Editing	Yes, Not recommended during playback! (Via Video Outputs)
3D Visualisation	Yes, Not recommended during playback! (Via Video Outputs)
Network Master / Manager	Yes
Rendering (Output, Visu)	Yes, Not recommended during playback! (Via Video Outputs)
PIXERA control GATE License	Yes

FHD	=	1920x1080, Uncompressed Datarate at 60fps	=	375MB/s
UHD	=	3840x2160, Uncompressed Datarate at 60fps	=	1,5GB/s
4K	=	4096x2160, Uncompressed Datarate at 60fps	=	1,6GB/s

* Power Consumption Average with High Load = Tested with very high CPU, GPU and SSD workload
* Heat Dissipation Average with High Load = Calculated with very high CPU, GPU and SSD workload
* Not all configs possible = Not all configurations of video input, network, audio cards are possible. Please ask.
* Max. Product Dimension = Product dimension incl. front handles, back handles, rubber bumpers, etc.
  Handles can not be removed on all products!
* Case Dimensions, Product Dimensions: Please note that due to the production process there may be
  deviations in the dimensions.

PIXERA MEDIA SERVER
PERFORMANCE CHARTS

PIXERA mini

This overview shows the maximum number of content streams per codec, that can be played back at the same time.

<table>
<tr><th rowspan="6">FHD@60fps</th><th>Codec</th><th>Content Data Rate</th><th></th></tr>
<tr><td>HAP</td><td>477 Mbit/s</td><td>15</td></tr>
<tr><td>HAPQ</td><td>984 Mbit/s</td><td>6</td></tr>
<tr><td>NotchLC</td><td>1170 Mbit/s</td><td>7</td></tr>
<tr><td>H264</td><td>42.4 Mbit/s</td><td>4</td></tr>
<tr><td>H265</td><td>19 Mbit/s</td><td>4</td></tr>
</table>

All videos had a frame rate of 60 fps, four outputs with 1920x1080px @60Hz were used for this test.

<table>
<tr><th rowspan="6">UHD@60fps</th><th>Codec</th><th>Content Data Rate</th><th></th></tr>
<tr><td>HAP</td><td>1871 Mbit/s</td><td>6</td></tr>
<tr><td>HAPQ</td><td>3775 Mbit/s</td><td>2</td></tr>
<tr><td>NotchLC</td><td>3980 Mbit/s</td><td>2</td></tr>
<tr><td>H264</td><td>90.4 Mbit/s</td><td>2</td></tr>
<tr><td>H265</td><td>44.4 Mbit/s</td><td>1</td></tr>
</table>

All videos had a frame rate of 60 fps, one output with 3840x2160px @60Hz were used for this test.

Pixera workspace rendering was disabled.
Please note that the kind of content used may influence the performance of individual video codecs. The test results are approximate values.
Performance results will differ when using VIOSO or FRAMEBLENDING.