

### Mandatory Requirements

#### VCAST Streaming Encoder 2800R (SAS) (VC-EN2800R)

##### General Features:

- Support high-quality video/audio broadcast at various bit-rates for multiple devices (PC, TV via VBOX or Windows Mobile)
- Support live and on-demand video / audio broadcasting via any TCP/IP networks
- Ease of support and maintenance with remote management
- Support latest streaming technologies for best user experience over Internet, Intranet or Wireless
- Reliable for 7/24 operation with high availability and backup options
- Provided by **Certified Windows Media Hardware Product Vendor** (Integrated Capture/Encoding Solutions and Appliances) listed in [http://www.microsoft.com/windows/windowsmedia/service\\_provider/Hardware/default.aspx#capture](http://www.microsoft.com/windows/windowsmedia/service_provider/Hardware/default.aspx#capture)

##### Encoding Features:

- Professional turnkey streaming video encoder with video/audio inputs and streaming outputs
- Support real-time encoding in multiple bit-rates for each channel
- Support professional quality of audio and video encoding from live input(s) and transcoding from archived media files
- Support conventional and professional audio and video interfaces (e.g. S-Video, Composite Video and XLR Balanced and 1/4" jacks Balanced audio)
- Fully synchronized audio and video streaming
- Elastic Frame Buffer architecture for absolute reliability and high image quality
- Integrated professional video and audio processing (e.g. high performance scalars, audio processor, video processor, AV matrix switch, etc)

#### Encoding Specifications

<b>Live Input Source:</b>	<b>Video:</b> <ul style="list-style-type: none"> <li>• S-Video (2 x BNC)</li> <li>• Composite Video (BNC)</li> </ul> <b>Audio:</b> <ul style="list-style-type: none"> <li>• XLR Balanced Stereo</li> <li>• 1/4" jacks Balanced Stereo</li> </ul>
<b>Media File Input Source:</b>	<ul style="list-style-type: none"> <li>• AVI, MP3, MPEG1, MPEG2-PS, MPEG2-TS, MP4, Windows Media, Real Media v9,10 (rm), Real Media v9,10 (rmvb), Flash VP6, Flash H.264, Quicktime-3GPP2, Quicktime-3GPP, Quicktime-iPod, Quicktime-iTune and Quicktime-Sorenson</li> </ul>
<b>Live and Archive Streaming Output Format:</b>	<ul style="list-style-type: none"> <li>• Windows Media 6, 7, 8, 9 and SMPTE VC-1 (Plus Silverlight publishing)</li> <li>• Real, Real Helix 9, 10</li> </ul>
<b>Encoding Bit-rate &amp; Frame Rate</b>	<ul style="list-style-type: none"> <li>• Up to 20Mbps@30fps (S-video / Composite)</li> </ul>
<b>Concurrent Streams:</b>	<ul style="list-style-type: none"> <li>• 8 independent video stream in multiple bit-rates or format*</li> <li>• Internal video/audio multiplexing</li> <li>• Up to 50 live streaming connections output</li> </ul>
<b>Capture Format:</b>	<ul style="list-style-type: none"> <li>• Motion JPEG Compressed Video</li> <li>• Uncompressed Video (YUV4:2:2, YUV4:2:0, or RGB)</li> </ul>
<b>Supported Live Input Source Resolution &amp; Frame Rates:</b>	<ul style="list-style-type: none"> <li>• Up to 640x480 30 fps (NTSC) or 768x576 25 fps (PAL) of S-video / Composite</li> </ul>

#### Hardware Specifications

<b>Processor:</b>	<ul style="list-style-type: none"> <li>• 2 x Quad Core Intel® Xeon E5405A or above</li> </ul>
<b>Memory:</b>	<ul style="list-style-type: none"> <li>• 2 x 1GB ECC Fully Buffered DDR2 RAM</li> </ul>
<b>Video Input Interface:</b>	<ul style="list-style-type: none"> <li>• 16 x BNC (1 x S-video / 2 x Composite) (Breakout Box)</li> </ul>
<b>Audio Input Interface:</b>	<ul style="list-style-type: none"> <li>• 4 x XLR and 1/4" jacks Balanced Stereo (Breakout Box)</li> </ul>



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Mandatory Requirements	
	<ul style="list-style-type: none"> <li>• 4 x 1/4" jacks Balanced Stereo (Breakout Box)</li> </ul>
<b>Storage Capacity:</b>	<b>Main Storage:</b> <ul style="list-style-type: none"> <li>• 1 x 146GB SAS hot-plug HDD</li> <li>• 2 x 146GB SAS hot-plug HDD (RAID 0)</li> <li>• Support RAID stripping with Advanced Data Streaming™ technology</li> <li>• Optical Drive (DVD+/-DL, DVD+/-RW, DVD+/-R, DVD-RAM, CD-ROM, CD-RW)</li> </ul>
	<b>Optional Upgrades:</b> <ul style="list-style-type: none"> <li>• External USB Floppy Disk Drive</li> </ul>
<b>Network Interface:</b>	<ul style="list-style-type: none"> <li>• 2 x 10/100/1000Mbps Ethernet (RJ45, Copper)</li> </ul>
<b>Power Input Voltage:</b>	<ul style="list-style-type: none"> <li>• 115 VAC (90 to 132 VAC related input) or 230 VAC (180 to 264 VAC related input)</li> </ul>
<b>Output Power:</b>	<ul style="list-style-type: none"> <li>• 510W</li> </ul>
<b>Keyboard &amp; Mouse:</b>	<ul style="list-style-type: none"> <li>• Wired keyboard and mouse</li> </ul>
<b>Chassis Enclosure and Dimension:</b>	<ul style="list-style-type: none"> <li>• 3U 19' inch rack-mountable chassis</li> <li>• 660 x 430 x 132 (D x W x H) mm</li> </ul>
<b>Preinstalled OS &amp; Software:</b>	<ul style="list-style-type: none"> <li>• Microsoft® Windows Embedded Standard (32bit)</li> <li>• Microsoft® Windows Media Encoder 9</li> <li>• Microsoft® Windows Media Player 11</li> <li>• Remote control tools for remote administration via TCP/IP</li> </ul>

\* Support up to 8 streams at 384x288 video resolution or 6 streams at 768x576 video resolution