

### Mandatory Requirements

#### VCAST Mini Encoder M200 (VC-M200)

##### 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, Aux, Line, Mic Mini-jack 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 (4-pin mini-DIN)</li> <li>• Composite Video (RCA)</li> </ul>
<b>Media File Input Source:</b>	<b>Audio:</b>
	<ul style="list-style-type: none"> <li>• Aux Stereo (Mini-jack)</li> <li>• Line / Mic Stereo (Mini-jack)</li> <li>• Camera Mic Mono (Mini-jack)</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 2Mbps@30fps (S-video / Composite)</li> </ul>
<b>Concurrent Streams:</b>	<ul style="list-style-type: none"> <li>• 1 independent video stream in multiple bit-rates or format</li> <li>• Internal video/audio multiplexing</li> <li>• Up to 5 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 320x240 30 fps (NTSC) or 352x288 25 fps (PAL) of S-video / Composite</li> </ul>

#### Hardware Specifications

<b>Processor:</b>	<ul style="list-style-type: none"> <li>• Intel® Atom™ processor 330</li> </ul>
<b>Memory:</b>	<ul style="list-style-type: none"> <li>• 1 x 1GB Unbuffered DDR2 RAM</li> </ul>
<b>Video Input Interface:</b>	<ul style="list-style-type: none"> <li>• 1 x S-Video (4-pin mini-DIN)</li> </ul>



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<b>Mandatory Requirements</b>	
<b>Audio Input Interface:</b>	<ul style="list-style-type: none"> <li>• 1 x Composite Video (RCA)</li> <li>• 1 x Aux Stereo (Mini-jack)</li> <li>• 1 x Line / Mic Stereo (Mini-jack)</li> <li>• 1 x Camera Mic Mono (Mini-jack)</li> </ul>
<b>Storage Capacity:</b>	<p><b>Main Storage:</b></p> <ul style="list-style-type: none"> <li>• 1 x 500GB SATA2 HDD</li> <li>• Optical Drive (DVD+/-DL, DVD+/-RW, DVD+/-R, DVD-RAM, CD-ROM, CD-RW)</li> </ul> <p><b>Optional Upgrades:</b></p> <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>• 1 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>• 200W</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>	<p>90 x 270 x 265 (H x W x D) mm</p>
<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>