



Mandatory Requirements

VCAST Streaming Encoder 1020R (VC-EN1020R)

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

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	
Live Input Source:	Video:
	<ul style="list-style-type: none"> • S-Video (4-pin mini-DIN) • Composite Video (RCA)
Media File Input Source:	Audio:
	<ul style="list-style-type: none"> • Aux Stereo (Mini-jack) • Line / Mic Stereo (Mini-jack) • Camera Mic Mono (Mini-jack)
Media File Input Source:	<ul style="list-style-type: none"> • 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
Live and Archive Streaming Output Format:	<ul style="list-style-type: none"> • Windows Media 6, 7, 8, 9 and SMPTE VC-1 (Plus Silverlight publishing) • Real, Real Helix 9, 10
Encoding Bit-rate & Frame Rate	<ul style="list-style-type: none"> • Up to 20Mbps@30fps (S-video / Composite)
Concurrent Streams:	<ul style="list-style-type: none"> • 2 independent video stream in multiple bit-rates or format • Internal video/audio multiplexing • Up to 50 live streaming connections output
Capture Format:	<ul style="list-style-type: none"> • Motion JPEG Compressed Video • Uncompressed Video (YUV4:2:2, YUV4:2:0, or RGB)
Supported Live Input Source Resolution & Frame Rates:	<ul style="list-style-type: none"> • Up to 640x480 30 fps (NTSC) or 704x576 25 fps (PAL) of S-video / Composite

Hardware Specifications	
Processor:	• Dual Core Intel® Core2Duo E8500 or above
Memory:	• 1 x 2GB Unbuffered DDR2 ECC RAM
Video Input Interface:	• 2 x S-Video (4-pin mini-DIN)



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Mandatory Requirements	
Audio Input Interface:	<ul style="list-style-type: none"> • 2 x Composite Video (RCA) • 2 x Aux Stereo (Mini-jack) • 2 x Line / Mic Stereo (Mini-jack) • 2 x Camera Mic Mono (Mini-jack)
Storage Capacity:	<p>Main Storage:</p> <ul style="list-style-type: none"> • 2 x 500GB SATA2 HDD (RAID 1) • Optical Drive (DVD+/-DL, DVD+/-RW, DVD+/-R, DVD-RAM, CD-ROM, CD-RW) <p>Optional Upgrades:</p> <ul style="list-style-type: none"> • External USB Floppy Disk Drive
Network Interface:	<ul style="list-style-type: none"> • 2 x 10/100/1000Mbps Ethernet (RJ45, Copper)
Power Input Voltage:	<ul style="list-style-type: none"> • 115 VAC (90 to 132 VAC related input) or 230 VAC (180 to 264 VAC related input)
Output Power:	<ul style="list-style-type: none"> • 510W
Keyboard & Mouse:	<ul style="list-style-type: none"> • Wired keyboard and mouse
Chassis Enclosure and Dimension:	<ul style="list-style-type: none"> • 3U 19' inch rack-mountable chassis • 660 x 430 x 132 (D x W x H) mm
Preinstalled OS & Software:	<ul style="list-style-type: none"> • Microsoft® Windows Embedded Standard (32bit) • Microsoft® Windows Media Encoder 9 • Microsoft® Windows Media Player 11 • Remote control tools for remote administration via TCP/IP