

IP VIDEO SOLUTIONS FOR CORPORATE, EDUCATION, GOVERNMENT AND NEW MEDIA



COMMUNICATE WITH POWER

Thanks to VBrick's industry-leading solutions, Enterprise IP Video is now a practical reality—and a clear competitive advantage. Since 1997, organizations of all kinds have used VBrick solutions to meet their most important communications challenges. VBrick customers are located in over 50 countries, include dozens of Fortune® 500 companies, more than one hundred US Federal Agencies, well over a thousand schools and universities, and numerous innovative media companies.

VBRICK ADVANTAGES:

- **Live.** No one does live Enterprise IP Video better. Combine it with our on-demand capability for a killer combination.
- **End-to-end.** We offer the only complete Enterprise IP Video solution on the market.
- **Reliability.** You get industry-leading reliability, validated by over a decade of field performance data.
- **Price performance.** Save lots of money, even when compared with lesser solutions.
- **Ease of use.** With over 60,000 installations, we've learned what our users want and need.
- **Network citizenship.** We know what it takes to transport video traffic without disrupting your other valuable LAN/WAN traffic.
- **Standards-based.** VBrick plays a leading role in IP Video standards bodies.

CUSTOMER TESTIMONIALS:

"Only VBrick could offer an end-to-end solution to enable our teams to use high-impact IP video streaming to more effectively communicate across a vast network of 79,000 employees and offices in 27 countries on five continents."

Dr. Armin Hessler
Head of Customer and IT Service Operations, Vodafone

"We were looking for a durable, foolproof video technology that was always ready to go and didn't need to be booted up like a computer."

Bryan Norcross
President and CEO, America's Emergency Network

"Over 21,000 students across Murrieta Valley USD viewed the live multicast streaming of President Obama taking the oath of office via a VBrick encoder and C-SPAN."

Ken Balliger
Director of Technology, Murrieta Unified School District

"With VBrick, I can immediately record, playback, and present any video on the web. I used to have to design my own website to do that... It's an amazing thing."

David Hoffman
Network Manager, AVIA

"People were just blown away. All of us felt we were truly communicating – from the CEO and operating committee level, to every teammate in the company – first hand, not through a filtered medium."

Ray Birden
Senior Vice President, Marketing, CARQUEST

"Everyone across the board has been happy with the system. They love the quality of the videos and the easy access."

Daniel Greene
Media Production Specialist, Bryant University

A WORLD OF APPLICATIONS

VBrick provides the most flexible IP Video solutions in the market designed with the application needs of teachers, executives, commanders, and entrepreneurs in mind.

MEETING AND EVENT BROADCASTS

Now you don't have to choose between costly face-to-face meetings or impersonal phone calls and emails. VBrick lets you deliver high-impact, rich media event broadcasts, product launches, and more across your enterprise.

Example customers: [Boeing](#), [Putnam Investments](#), [7-Eleven](#), [Metro Transit Authority \(NYC\)](#), [Salem High School](#), [Federal Deposit Insurance Corporation \(FDIC\)](#)



TRAINING AND EDUCATION

Reach your employees or students in a format they understand and use every day. Video grabs people's attention and helps them learn at their own speed. With VBrick IP Video, educators and trainers can reach students anywhere in the world with an engaging, immersive experience.

Example customers: [Naval Postgraduate School](#), [Gallaudet University](#), [Bankers Life and Casualty](#), [Washoe County Regional Training Center](#)



TELEVISION DISTRIBUTION

The possibilities for television are wide open with VBrick. Imagine having the major news and financial channels available on your desktop. How about distributing subscription television programming as a service to your entire student body? Why not bring video content into every classroom and training room?

Example customers: [ABM-AMRO](#), [Goldman Sachs](#), [Cleveland City Schools](#), [US Army](#), [US Air Force](#), [Trinity University](#), [Bryant University](#)



DIGITAL SIGNAGE

Use VBrick to deliver content for digital signs and information kiosks, creating attention-grabbing power you can't get from other media. Video is ideal for conveying valuable information such as how to navigate your store, product demonstrations, or the latest company news in your lobby.

Example customers: [Allianz](#), [Macy's](#), [Novartis](#), [Federal Aviation Administration](#)



WEB 2.0 MARKETING

Content-rich video is one of the best ways to create awareness for your products and services. VBrick provides all the tools you need to get your message in front of your audience. We also make it easier than ever to create and distribute webinars, free or paid syndicated content for use on other organization's websites, or as part of a viral marketing campaign.

Example customers: [Kauffman Foundation](#), [America's Emergency Network](#), [Netixis](#), [Mystic Aquarium](#)



SURVEILLANCE & MONITORING

VBrick is at work in every imaginable monitoring application, from simple surveillance to mission-critical environments. Military commanders use VBrick to gain real time IP Video from peace-time locations and combat zones. Transportation departments use VBrick to monitor congestion and accidents in real time on roads, in ports, and at terminals.

Example customers: [Shell Oil](#), [Utah Dept. of Transportation](#), [University of Texas](#), [US Army](#), [US Navy](#), [US Air Force](#), [US Marines](#)



LEVERAGE YOUR EXISTING VIDEOCONFERENCING TECHNOLOGY

Already have videoconferencing technology? VBrick can leverage your investment by extending its reach. With VBrick, your videoconferencing suite becomes a mini-broadcast studio, enabling you to reach a much greater audience than ever before.

Example customers: [Avia](#), [TD Banknorth](#), [Department of Justice](#)

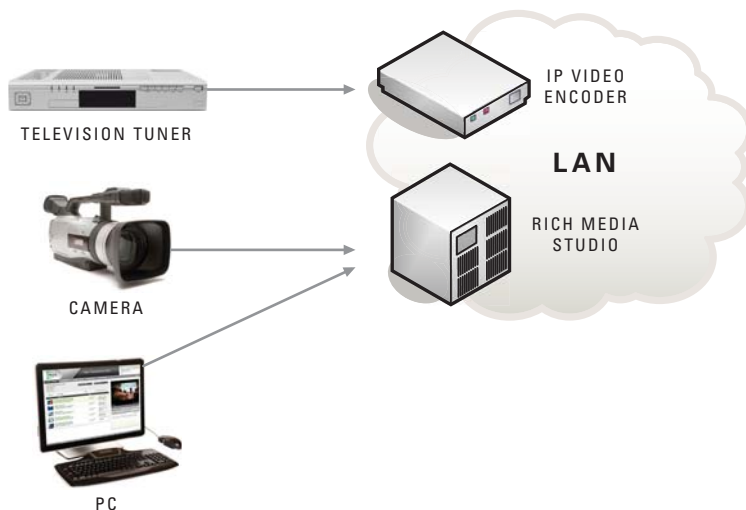


A COMPLETE ENTERPRISE IP VIDEO PLATFORM — ONLY FROM VBRICK

LIVE CAPTURE

Choose from the industry's broadest range of IP Video encoding appliances:

- Get unmatched reliability and performance from our purpose-built hardware combined with a real time operating system.
- Use any major encoding standard — HD & SD H.264, Windows Media, MPEG-2 and MPEG-4.
- Choose from multiple form factors: enterprise, industrial, and surveillance-level appliances; rack-mountable blades.
- Integrate presentation material, including the xGA output from a PC and other media streams, into one video stream.
- Encode and transmit from any video source — camera, TV tuner, DVD player, etc.
- Broadcast from any fixed or mobile IP network connection using our portable packages.



VBrick offers the industry's only comprehensive turnkey Enterprise IP Video platform. With VBrick, you can record and distribute live video content, on-demand video, and rich media presentations over any network, anywhere, to anyone.

TRANSPORT

Distribute your video on the LAN, WAN, Internet, and wireless networks without requiring costly network upgrades or expensive high-bandwidth connections:

- Optimize network utilization by using the VBrick Reflector to take a single unicast stream from across the WAN or the Internet and rebroadcast it locally via multicast or unicast.
- Stream over the Internet with our optional managed service offering that integrates Content Delivery Networking with our rich media management portal.
- With multiple network equipment manufacturers already integrating VBrick technology, IP Video support is available directly from many network switches and routers.

RECORD & STORE

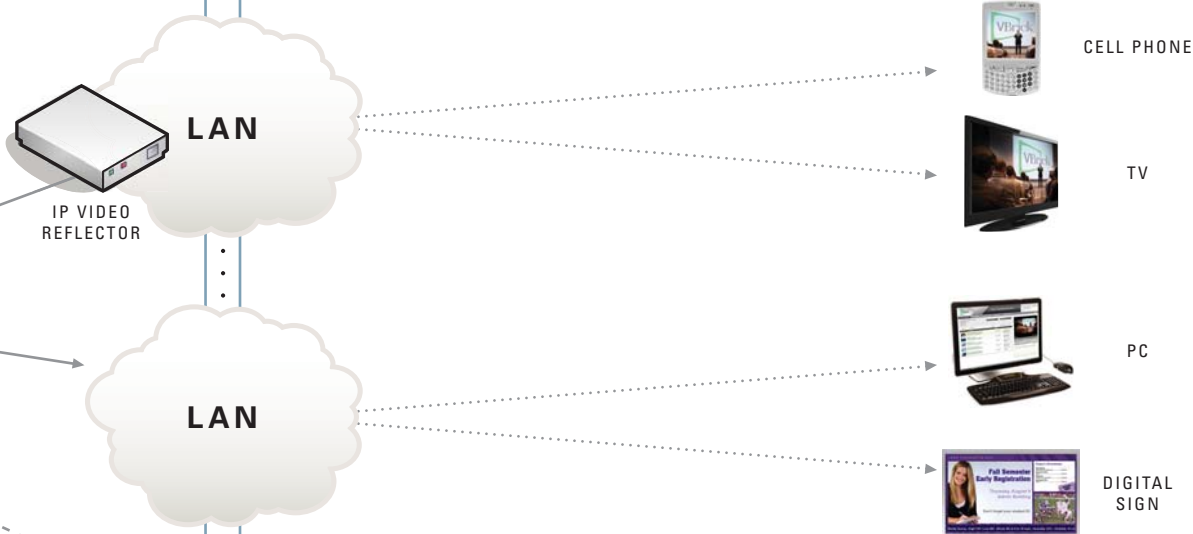
Record and store your video with solutions that are as easy-to-use as clicking a button:

- Record directly on a VBrick appliance.
- Record up to 40 simultaneous broadcasts with VBrick's Network Video Recorder.
- Deliver recorded content with VBrick Video-On-Demand Servers with multiple storage and throughput options to fit any size organization.
- With OS and storage redundancy, you don't have to worry about lost data.
- Take your recording and on-demand power as far as you want with VBrick's clustering capability.
- Deploy as a distributed, centralized, or hybrid system to fit your enterprise needs.

PLAY

Stream live and on-demand video to virtually any desktop, TV display, mobile device or digital sign:

- Watch live and on-demand video on PC and Mac media players.
- Display SD and HD video on plasmas and LCDs using VBrick's Set Top Boxes.
- Use VBrick hardware decoders for mission-critical environments.
- Access live IP Video content with StreamPlayer Plus, a standalone software client.
- Click and play with DVD-like controls for video previews, fast forward and rewind, and full screen display.



MANAGE & CONTROL

Take control of your streaming media applications with VBrick's media management software suite, the cornerstone of VBrick's Enterprise IP Video Platform:

- **Viewing Portal** - Publish and view your IP Video content with VBrick's embedded viewing portal.
- **Presentation Delivery** - Deliver captivating rich media presentations to your entire organization.
- **Scheduling Broadcasts and Recordings** - Schedule your live broadcasts and on-demand assets with push button simplicity.
- **Intelligent Video Networking** - Deliver HD quality video over your existing IP network or the public Internet.

- **System Administration** - Manage, control and ensure the security of all aspects of your IP Video solution.
- **Hosted Services** - VBoss' Streaming Video Service provides a fully managed encoding appliance, a feature-rich management portal, and delivery over one of the world's most reliable Content Delivery Networks. In addition, VBoss offers several scalable player options, the ability to monetize and syndicate your content, and flexible bandwidth/storage plans.

PRODUCT DETAIL

LIVE CAPTURE

ALL APPLIANCES



- 4:3 or 16:9 aspect ratio
- Supports both NTSC and PAL video formats
- Wide range of video resolutions, frame rates, and bit rates
- Intelligent networking feature set
- Serial ports for maintenance and data transport/camera control

H.264 NETWORK VIDEO APPLIANCES

- SD and HD Encode and Decode
- Unicast and multicast to 25 destinations
- Integrated server supports up to 200 clients
- Industrial, enterprise, and rack mount form factors
- Supports wide range of resolutions from 3G to HD
- High video quality at low bit rates and low latency
- Composite, S-Video, component, HDMI, SD-SDI, HD-SDI, and 3G-SDI inputs
- Supports insertion of telemetry data (KLV)

WINDOWS MEDIA®

- Single and Dual Channel Encoders
- Standalone Reflector or integrated with Single Channel Encoder
- Integrated Recorder and VOD server with optional hard drive
- Integrated server supports up to 200 live clients
- Unicast and multicast to 25 destinations
- Multiple Bit Rate (MBR) encoding – up to three profiles
- Metadata support for synchronizing rich media
- High video quality at low bit rates
- Optional SDI Input

MPEG-2

- Single and Dual Channel Encoders
- Encoder/Decoder
- Integrated Recorder with optional hard drive
- Unicast or multicast live and stored content (stored content requires optional hard drive)
- Metadata support for synchronizing rich media
- Digital TV quality – lowest delay
- DVD quality video at high bit rates (2-15 Mbps)
- Supports multiple resolutions up to full D1
- Optional SDI Input
- Lowest delay for surveillance and two-way applications

MPEG-4

- Single and Dual Channel Encoders
- Encoder/Decoder
- High quality/low delay
- Unicast and multicast to multiple destinations
- Integrated Server supports up to 200 live clients
- Stream metering
- Metadata support for synchronizing rich media

MIXED MODELS

- MPEG-2/4, MPEG-2/WM, or MPEG-4/WM Dual Encoder
- MPEG-2 Decoder with MPEG-4 or WM Encoder

RICH MEDIA STUDIO

- Allows organizations to easily deliver live rich media presentations over IP networks, and record them for on-demand viewing

- Combines video inputs and xGA/DVI inputs into one video stream
- The industry's most versatile, scalable, and easy to manage presentation solution
- Provides picture-in-picture so streams can be delivered to mobile devices

RACK MOUNT SHELF

- Holds up to 11 H.264 SD or HD encoder blades
- Redundant power and cooling
- Hot-swappable blades
- Cable management

MOBILE BROADCAST SOLUTION

- Portable IP Video solution
- H.264 Appliance (SD or HD)
- Wireless bonding of multiple 3G and 4G USB datacards
- Anton Bauer Gold Mount clips for mobile power
- Durable carrying case

RECORD AND STORE



VOD SERVERS

- VOD-WM: Windows Media Server - three performance options: unicast only or unicast/multicast
- VOD-W: H.264/MPEG Server - 50mbps, 125mbps, and 300mbps options
- Stored content distribution to desktops and set top boxes
- Full DVD-like controls
- Seamless integration with VEMS Portal
- Supports geographically distributed and clustered servers
- System monitoring provides usage information
- Redundant storage and dual power supplies available
- External storage available
- Tested and certified streaming throughput

NVR – NETWORKED VIDEO RECORDER

- Simultaneously record 10 or 40 MPEG-2, MPEG-4, H.264, and WM streams
- Large storage capacities
- Redundant storage and dual power supplies
- Completely integrated with VEMS Portal, Scheduler, and VOD servers

TRANSPORT



WM REFLECTOR APPLIANCE

- Receive unicast stream and reflect via unicast or multicast to multiple destinations
- Integrated WM Server supports up to 200 clients
- Integrated VOD server with optional hard drive
- Integrated recorder with optional hard drive

H.264

- Multiple third party products can be used to reflect H.264 streams

INTERNET

- Reach tens of thousands of users over the Internet with the VBrick Online Streaming Service

PLAY

HARDWARE DECODERS



- MPEG-2, MPEG-4 or H.264 Single or Dual Channel Decoder
- MPEG-2/4 Encoder/Decoder

SET TOP BOXES

- MPEG/H.264 Set Top Box - Decodes SD MPEG-2 and SD or HD H.264
- WM IP Receiver – Decodes Windows Media

VBRICK SOFTWARE PLAYERS

- Support for H.264, Windows Media, MPEG-2, and MPEG-4
- Windows PC and Mac support

MOBILE MEDIA PLAYERS

- Support for mobile media players that can receive streaming video

MANAGE AND CONTROL



VBRICK ENTERPRISE MEDIA SYSTEM (VEMS)™ PORTAL

- Web-based portal for accessing live streams, presentations, and on-demand audio and video assets
- User-friendly interface for Windows PCs and Macs to locate available media assets
- Simple navigation and DVD-like controls for easy viewing
- Create and share bookmarks and playlists
- Access control integration with LDAP and Active Directory
- Provides management reports to measure overall and individual system usage

VEMS Presenter

- Deliver online presentations, webcasts and webinars based on synchronized video with PowerPoint slides

VEMS Scheduler

- Intuitive calendar interface
- Schedule live broadcasts or stored re-transmissions, recordings and two-way conferences

VEMS Channel Guide

- Automatically provides television channel listings and program information
- Provides DVR-like functionality for recording (when deployed with Scheduler)

VEMS Distribution Server

- Deliver large scale webcasts for up to tens of thousands of viewers
- Use to distribute the load on the Portal Server to maintain maximum performance

VBRICK ONLINE STREAMING SERVICE (VBOS)

- Managed service offering
- Web-based portal manager
- Scalable live and on-demand video distribution on the Internet
- Bundled IP Video appliance
- Bundled Content Data Networking bandwidth and online storage
- Manage and publish video assets
- Customize video players
- Monetization options
- Webinar capabilities including surveys and chatting
- Ideal for meeting broadcasts, conferences and seminars
- Enables rich media marketing capabilities

About VBrick Systems, Inc.

VBrick is the leader in Enterprise IP Video solutions, with over 6,000 corporate, education and government customers and 60,000 installations worldwide. VBrick solutions work over standard IP networks and the Internet to deliver rich media communications that connect people everywhere -- from employees and customers, to partners and shareholders. Our comprehensive product suite and end-to-end solutions are used in a wide range of live and on-demand applications including meeting and event broadcasts, distance learning, digital signage, TV distribution, video surveillance, and Web-based marketing campaigns. Headquartered in Wallingford, CT, VBrick's products and services are available through industry-leading value-added resellers. For more information, visit www.vbrick.com



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