BLACK BOX

Agility KVM-over-IP

Secure, shared access to mission-critical resources, made easy.

Leverage new or existing IP networks to extend or switch KVM, HD video, USB, and audio signals.

Reliable and secure access to remote sources for improved collaborative workflow.

Transmitter

Receiver

System Controller

Features

- Scalable system to unlimited endpoints.
- Delivers perfect digital video to single-head or dual-head displays, with resolutions up to 2560 x 1600.
- Fast switching times—less than one second.
- Selective switching of DVI, USB, and audio channels.
- Keyboard/mouse emulation and virtual transparency for other standard human interface devices (HIDs), such as touchscreens or flash drives.
- Fanless design ensures silent operation.

The Agility KVM-over-IP system enables you to do more and go farther with perfect digital video over nearly unlimited distances.

Standard CATx cabling delivers IP traffic up to 328 feet (100 m). For longer distances, add network switches.

The flexible topology of the Agility gives you extension option applications including point-to-point extension, a matrix switching network, multicasting, and single target sharing. The Agility features a simple-to-use graphical user interface (GUI) to make your configuration easy to set up.

Point-To-Point

Use Agility as a point-to-point KVM extender over CATx cable. Extend DVI video, audio, and USB, as well as KVM signals, up to 330 feet (100 m). With Ethernet switches, users can transmit signals even longer distances.

Multicasting

Multicasting HD video plus peripherals over an IP network can slow transmission to a crawl. But with the low-latency of the Agility, sending audio and video content over an IP network from one computer to several receivers doesn't impede bandwidth. With an IGMP snooping-enabled network switch, video is only broadcast to appropriate receiver ports.

Single Target Sharing

Multiple users can share a single remote computer, connecting in view-only, share, or exclusive modes.

Dual Head, Dual Link

Configure the dual-head Agility transmitters and receivers to support two screens, or dual-link to one screen with DVI resolutions up to 2560 x 1600.

VNC Remote Management

The Agility with a VNC port option enables out-of-band access over the Internet, link redundancy, and bandwidth aggregation.

Management System

The Agility Controller offers a plug-and-play management suite, iPATH™, which simplifies configuring the various channels. It enables remote, secure configuration of all the transmitter and receiver units via a standard Web browser. Define new content channels, restrict and enable access privileges, diable specific USB device classes, among other configurations. The iPATH interface features a useful on-screen dashboard that gives you a current overviw of the system. It is continually refreshed so you always have the most up-to-date system information.

Signal Interfaces

Dual-Link DVI: The Agility supports dual-head or dual-link digital video, for resolutions up to 2560 x 1600.

USB: Plug-and-play USB devices, such as keyboards, touchscreens, and mice for KVM functionality. Supports emulation.

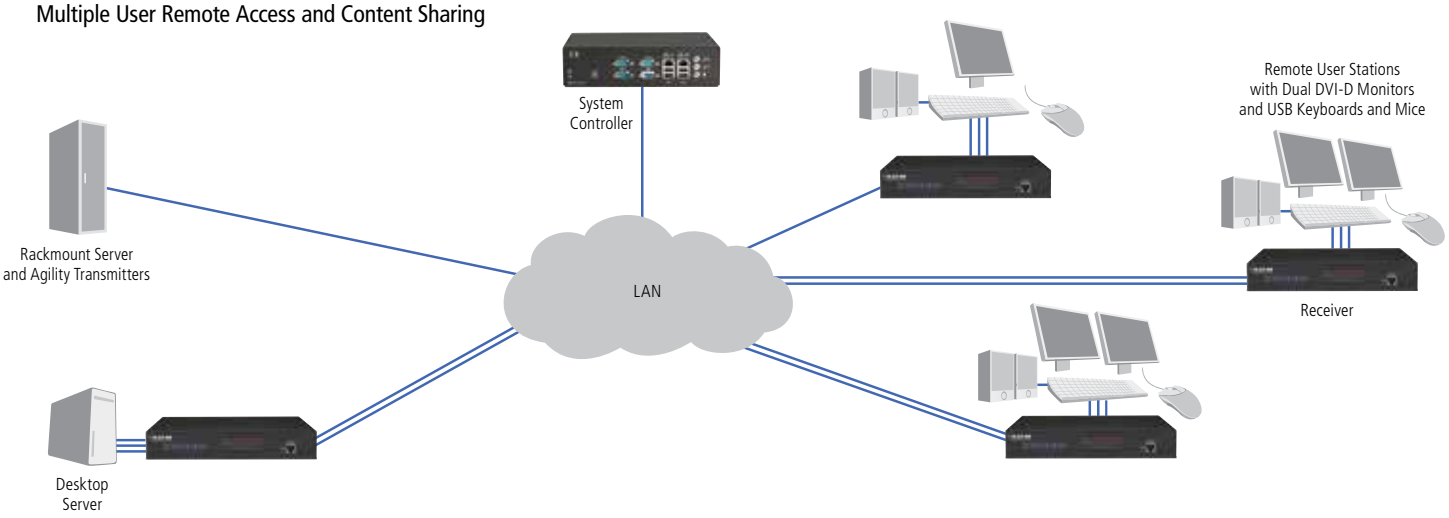
Audio: Send digital audio signals in conjunction with digital video over an IP network.

Agility KVM-over-IP

Applications:

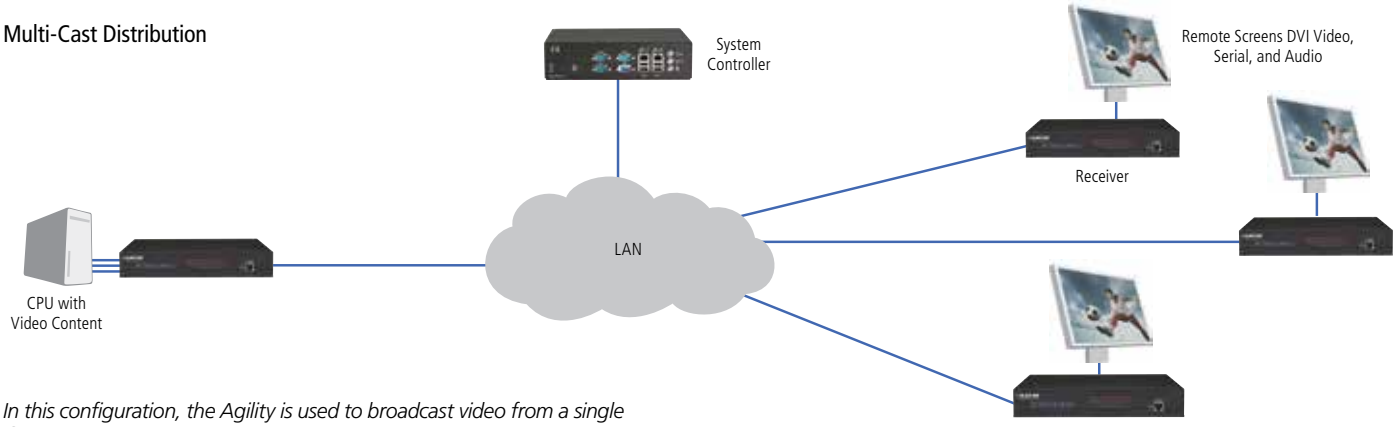
- Distribute high-quality medical images to staff across large medical facilities. Agility uses standard Ethernet equipment, so the networking hardware doesn't need to be updated.
- In command and control room setups, multicast video and data to receiver units between LCD display walls.
- Media post-production suites become collaborative. Machine rooms store the media assets and hardware, and can distribute them throughout a post-production facility.
- Get real flexibility for your digital signage network. All you need is an IP network in the installation, and you can easily deliver content from one playout device via DVI.
- Also for digital signage, use the Agility to switch between multiple video sources.
- Deliver rich media experiences in public spaces, such as museums or libraries. The flexibility of the system makes reconfiguring your implementation a snap.

Multiple User Remote Access and Content Sharing



In this setup, the Agility enables multiple users to access secure or remote CPU's over the local area network (LAN).

Multi-Cast Distribution



In this configuration, the Agility is used to broadcast video from a single CPU to remote screens.

Agility KVM-over-IP	
Single-Head Kit	ACR1000A
Single-Head Transmitter	ACR1000A-T
Single-Head Receiver	ACR1000A-R
Dual-Head Transmitter	ACR1002A-T
Dual-Head Receiver	ACR1002A-R
Controller Unit	ACR1000A-CTL

For full features and specs, go to **blackbox.com**.
For pricing details, call **724-746-5500**

Agility KVM-over-IP

Broadcasting

Media post-production suites become collaborative with the Agility. Machine rooms store the media assets and hardware, and can distribute them throughout a post-production facility. Multiple producers can instantly communicate with animators and colorists.

Case Study: A large TV broadcaster was looking for a switching solution to optimize its playout process.

All source computers are housed in a central computer room. Fifty users (directors and assistants) in multiple control rooms need to access about 80 computers. Special attention had to be put on making sure switching between the computers is very fast. Plus, the work requires a high degree of concentration, so the solution needed to work very quietly.

The customer chose the Agility system because of its outstanding, fast switching times. Using a TCP/IP network, the Agility units connect the users within the various control rooms to the remote computers without loss in video quality. The Agility system has the flexibility to be adapted to future changes. The customer was particularly pleased as the Agility system turned out to be a very cost-effective solution in comparison to other systems.

Digital Signage

Deliver rich media experiences in public spaces, such as museums or libraries, and get real flexibility for a digital signage network. With an IP network running through the installation, users can easily deliver content from one playout device via DVI to any number of screens. Or, use the Agility to switch between multiple video sources.

Case Study: A well-known advertising agency required a method of moving live video from a server in a data cabinet to a 103" screen in a large train station. The screen resolution was full high definition (1920 x 1080p), and the videos were advertisements that needed to be displayed clearly and concisely, and without interference.

The Black Box Agility was chosen as the reliable method for transporting high-resolution video across the train station to the large screen. The Agility didn't introduce any loss and transported the original video faithfully. Even on the large display, there were no signs of artifacts or anomalies.

Command and Control

In a command and control room application, the paramount considerations are locating servers and other computing power in one room, distant from the work environment; and ensuring the reliability of control room connectivity.

Case Study: A state-wide power grid command and control room needed multiuser access for users to interact directly with the computer systems in use while also limiting access to certain systems by authorized users. The work environment needed to be quiet as well to help keep productivity high.

Black Box installed an Agility KVM-over-IP system, including transmitters with VNC port and the Agility Controller with iPATH. Agility delivered lossless real-time interaction with the flexibility of an instantly configurable IP matrix switch. With the Agility, 1920 x 1200 digital video plus USB signals were delivered from the server room to the control room. The iPATH management suite enabled quick and seamless configuration changes.

Addtionally, multicasting—viewing the same information at different screens in real time—was another feature this power grid control room used to great benefit. Finally, with the scalability of Agility, the command and control room set up is ready to grow with the needs of its community.

Healthcare

Distribute high-quality medical images to doctors and staff across large medical facilities. Agility uses standard Ethernet equipment, so networking infrastructure doesn't need to be updated.

Case Study: A large medical center had an urgent need for its surgeons and practitioners to be able to view high-resolution images of x-rays, photographs, and medical charts from its servers—as well as conform to patient confidentiality and data protection laws—while maintaining a completely sterile environment. But power supply fans inside PCs or servers take in air to cool down the processor, which means they are unsuitable for such an environment, as germs and dust can easily gather.

Black Box provided the solution by enabling the servers to be placed down the corridor in a secure environment, and used an Agility unit to extend the keyboard, monitor, and mouse into operating theaters, and x-ray and consulting rooms. Cleaning was now not an issue as the keyboards, displays, and mice complied with medical standards, ensuring they could be disinfected directly.