Discovery Education
Network Strategies & Hardware Solutions

EDUCATOR EXPERIENCE WITH VIDEO

GOOD		BEST

Streaming & Downloading via the Internet

With No Restrictions

Ideal for high-bandwidth areas.

Videos delivered from Discovery Education are encoded at 256K to 1+MB. Depending on streaming options, five simultaneous streams could consume most of a T-1 line. With many students, teachers, and administrators, it is possible to have moments during the day where video streaming may consume a high portion of your Internet bandwidth.

With Some Restrictions

Discovery Education Blocktime Editor* allows you to set streaming and/or downloading hours. Educators will be notified through Discovery Education of their downloading permissions. Settings for Blocktime Editor may be different for every school.

Locally Host Content With Your Own Server

The Local Host Solution lets schools stream and download Discovery Education video directly from a local server rather than from the Internet, eliminating concerns related to Internet connection speed. The complete Discovery Education digital-video library is stored on a local server.

Price: $4,000–6,000 depending on configuration

Reduce Internet Traffic with Network Manager Software*

Used in conjunction with the Local Host Solution, you can further reduce the impact to your network with Network Manager software. Network Manager software transfers video files to a local computer or server via overnight or off-hours delivery. Videos downloaded with Network Manager software are made available to educators through the normal Discovery Education interface.

Price for Software: $295 per installation

Locally Host with Discovery Multi-Format Media Server

Experience higher image quality, quicker response, and increased bandwidth efficiency by combining powerful and reliable delivery hardware with Discovery Education services.

	Discovery Multi-Format Media Server
Total Number of Discovery Education Titles[1]	9,000
256K (Storage Required)	2TB
700K–1+MB (Storage Required)	9.5TB
Add Local Content	✓
Automatic Content Updates[2]	✓
Hardware Configuration	Rack
Editable Content	✓
Recommended for	District / Regional Level
Price[3] K–12 per building (or server installation)	$14,995

[1] Number of titles may vary based final terms of contract
[2] PowerMediaPlus updates made via FTP (not automatically)
[3] Annual DiscoveryEducation.com subscription fee not included

* Available for Discovery Education *streaming* and Discovery Education Science

Local Hosting of Video Content with Discovery Media Servers or Existing School-Owned Servers
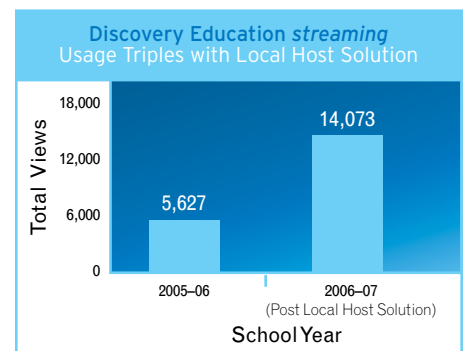
Access Discovery Education video content from your LAN/WAN. A web server with storage space is required.

"We were excited to see our educators use Discovery Education streaming more with students as a result of Locally Hosting video content. Discovery Education streaming became an even more valuable resource for our classrooms because of the decision to locally host content."

Ed Stolze, Director of Information Systems and Technology
Creighton Elementary School District, AZ

Snapshot Success with Locally-Hosted Content:

Creighton Elementary School District, AZ

Discovery Education *streaming* Usage Triples with Local Host Solution

- 2005–06: 5,627
- 2006–07 (Post Local Host Solution): 14,073

Total Views / School Year

Storage Requirements for Video	Discovery Education *streaming* Plus	Discovery Education Science	Discovery Education Health	Discovery Education PowerMediaPlus
Number of Titles	9,000	1,250	600	3,500
Windows 256-300K/QuickTime 256K	1TB/1TB	NA	NA	600GB/450GB
Windows 700K-1MB+ /QuickTime 1MB+	9.5TB	NA	NA	1.2TB
Total	11.5TB	1.2TB	500GB	2.3TB

Note: All numbers reflect end of 2009.

Note: Only videos are stored on local servers. Currently all other asset types are streamed via Discovery Education servers.

Advantages of Locally-Hosted Content:

- Use your LAN/WAN to deliver video content rather than the Internet.
- Content server is kept up to date when new videos are released by the Network Manager software. New videos are transferred via an overnight process (not available for PowerMediaPlus - new videos are provided via FTP).
- Discovery Education video content is hardware neutral and works with a variety of servers, including the Discovery Media Server.

Sample Server Set-Up

- 2 GHz dual processor or faster
- At least 4 GB ram
- 10/100 or GB NIC
- Web services: Windows Server 2003 or newer utilizing IIS (preferred), Apache,™ or other Web services
- Firewire Card: content is easily loaded from a firewire drive.

Server Setup Process

Firewire drives are required for the loading of content onto the servers.

Discovery Education will load content on the firewire drive(s) and mail them to you. The school or district needs to provide Discovery Education the URL for your web server. After the content is loaded onto the server, notify Discovery Education at 800-323-9084 and back-end updates to Discovery Education services will be made so you may access content locally.