

Pipeline™

Network Encoder for OEM applications



Network-accessible SDI video encoding device

- Real-time encoding to DV/DVCPRO 25, IMX 30/40/50 & MPEG-2 I-frame in a single box
 - Sits on your network – so anyone can access it
 - Uses common network protocols RTSP, RTP, TCP, UDP
 - Adaptable to a variety of professional tape ingest needs

Pipeline™ is a real-time media encoding hardware solution that provides flexible tape ingest into Telestream's FlipFactory or Episode as well as third party products such as Apple's Final Cut Pro. Pipeline is ideal for integration into a variety of broadcast, post-production, government and other professional media applications. A complete Software Development Kit (SDK) enables easy integration into 3rd party applications.

Pipeline can also deliver QuickTime-wrapped DV25 or IMX 30/40/50 files directly to a storage location on your network. This provides a fast and easy way to ingest media from tape and store the encoded media files to an archive or digital asset management system.

Standard network communication

Pipeline uses standard network protocols for device control and configuration, as well as for transporting individual media elements. Pipeline sessions are setup and controlled using RTSP (Real-Time Streaming Protocol) while individual audio/video elements are delivered using RTP (Real-Time Transport) over UDP or TCP.

A better way to ingest baseband media

The flexible Pipeline network encoder offers freedom from the hassles, expense and limitations of traditional PC capture card solutions. It is more reliable, eliminating the susceptibility of a server/card model. It removes operating system and driver incompatibilities.

Accessible from any workstation on your network

Shared network access makes Pipeline a cost-effective video capture solution. Any user connected to the network can access available Pipeline channels, eliminating the need for a dedicated workstation for each user.

Pipeline Quad, the multi-channel model, offers additional features such as confidence monitoring, to view what is being encoded, and redundant power supplies for critical workflows. Unparalleled encoding density and significant per-channel cost savings are provided in a compact 1RU chassis.

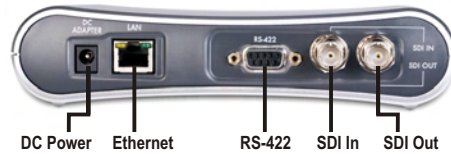
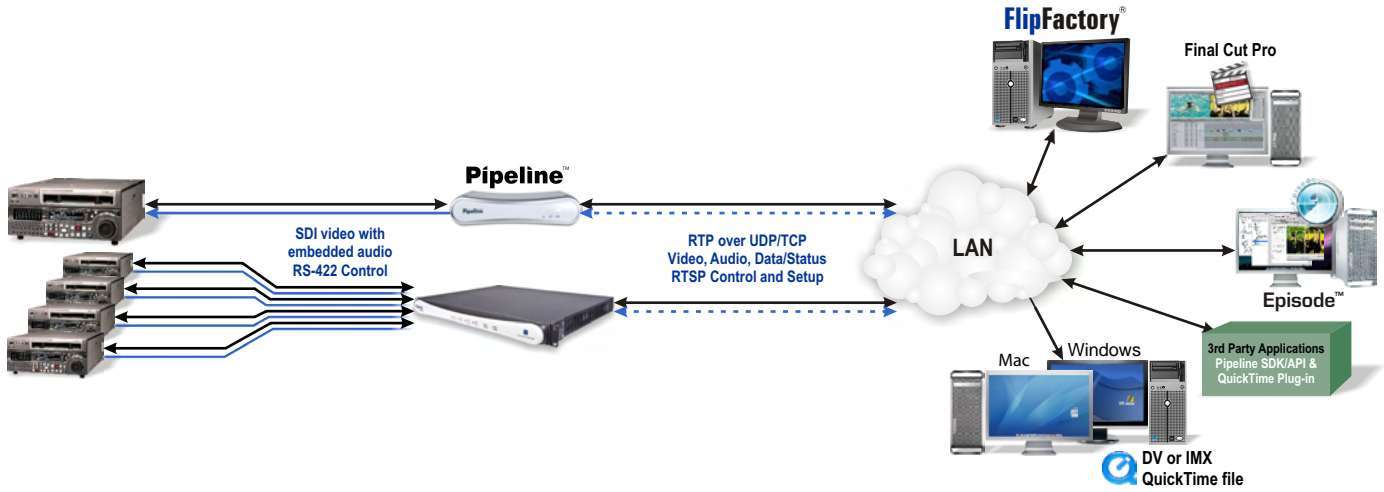
Pipeline vs. PC card	Pipeline	PC Card
Easy workflow integration	Yes	No
VTR control	Yes	Yes
Does not require PCI add-in card	Yes	No
Does not require server or workstation	Yes	No
Dedicated external encoding device	Yes	No
Easily Scalable	Yes	No
Designed for 24/7 use	Yes	No

Applications:

- Batch ingest allows users to encode multiple clips from a single tape
- Encode tapes into online digital libraries and DAM systems
- Print clips to tape for sharing with clients or colleagues



TELESTREAM



Pipeline (single channel)



Pipeline Quad (multi-channel)

	Single	Quad
Baseband I/O		
Serial Digital (BNC, SMPTE 259M 270 Mbps)	✓	✓
16 channels embedded audio	✓	✓
Reference (BNC, 75 ohm)		✓
Automatic detection of 525/625	✓	✓
Network Connection		
10/100 Mbps Ethernet port	✓	
10/100/1000 Mbps Ethernet port		✓
Rack Mount		
1RU Chassis (19")		✓
Power		
External Power module	✓	
Internal Redundant Dual Power Supply		✓

Video Encode/Decode formats (NTSC/PAL) standard definition
DV/DVCPPro (25Mbps)
IMX 30, 40 and 50
MPEG-2 I-Frame 50Mb (ClipMail master-quality compatible)

Audio
48Khz / 16bit / Uncompressed

VTR Control
RS-422, 9 pin Sony Protocol

Network Protocols
TCP/IP, UDP, RTSP, RTP
Apple® Bonjour compliant (device discovery/control)

Dimensions
Pipeline: 191mm/7.5" W x 140mm/ 5.5" D x 38 mm/1.5" H
Quad: 439mm/17.9" W x 336mm/13.25" D x 44mm/1.73" H

Acquisition modes:

- Mark in/out
- Enter time codes
- Enter start/duration

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