

PELICAN

- ✓ Compact Streaming Encoder
- ✓ HD-SDI Input supports SD and HD
- ✓ H.264/AVC and H.265/ HEVC Video
- ✓ Live streaming output with UDP, RTMP, SRT
- ✓ Direct OTT Streaming via HLS or MPEG-DASH
- ✓ MPEG-DASH Low Latency Support
- ✓ Friendly Web GUI
- ✓ JSON REST API allows easy integration with broadcast control systems

Pelican Pico – Compact Encoder

The Pelican Pico compact encoder provides professional H.264/AVC and H.265/HEVC encoding from SD or HD SDI sources.

The product supports both live streaming via UDP/RTMP/SRT etc. Direct HLS or MPEG-DASH streaming via a built in Low Latency origin server is available as an option.

The easy-to-use web-based GUI lets you quickly setup and configure the device. Alternatively, the extensive JSON REST API lets Pelican be remotely controlled via an automation or management system.

COMPACT AND CAPABLE



About the size of a set top box, Pelican Pico fits into the palm of your hand.

Internally, the system is built on a robust, enterprise-grade Linux which powers the encoding functions, Web GUI, and REST API.

Two Ethernet ports are available, letting you configure streaming output over the same port as the Web GUI or streaming over a dedicated and separate network.

LIVE CONTRIBUTION

Long-distance transmission via fiber or satellite links continues to be a major cost factor for live production operators. Pelican can help operators optimize costs by encoding contribution content into high-resolution HEVC streams, thus lowering the bit rate without sacrificing quality.

EVENT CONTRIBUTION

When used with the Puffin decoder, Pelican provides the perfect solution for outside broadcast and regional contribution. SRT transmission provides exceptional protection against link instability and packet loss, finally making transmission over the public internet an affordable reality.

EASY CONFIGURATION

The Web GUI lets you quickly configure input, encoding, and streaming parameters.

Pelican Pico automatically detects the input signal characteristics making setting up encoder parameters is quick, easy, and straightforward.

REST API

While most users choose to control and configure the Pelican via its intuitive HTML5 GUI, the system can also be fully managed remotely via the built-in REST API. Using straightforward HTTP commands, key encoder and system parameters can be queried and/or modified, making it a snap to integrate Pelican with third party automation or management systems.

torque
VIDEO SYSTEMS

SRT Bonding

SRT utilizes an "ARQ" mechanism to retransmit any packets dropped by the network. While that greatly improves transport reliability, it cannot defend against catastrophic failure of the link or ISP.

Both the Puffin decoder and the Pelican encoder support SRT bonding. When selected, packets are sent over two separate Ethernet links (or to two ISPs over a single Ethernet link). If packets are dropped or excessively delayed on one connection, Puffin takes the packet from the backup connection.



BUILT-IN HLS/MPEG-DASH SERVER

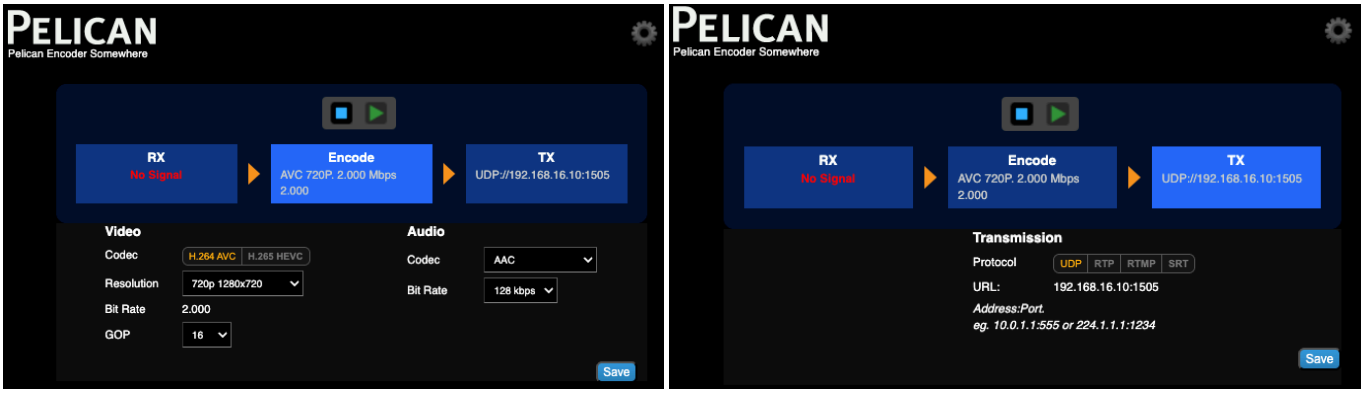
When encoding to HLS or MPEG-DASH, Pelican Pico automatically creates and manages the manifest file and provides the "producer time reference" endpoint URL as required by the MPEG-DASH Low Latency extensions.

The manifest and content chunks are stored internally and are served to clients via standard HTTP protocols.

A test player is included for verifying encoding. Additional, source code for the test player is available for you to quickly deploy player clients using your own branding, logos, etc.

QUICK AND EASY SETUP

The clean and easy-to-use web GUI makes setting up and using Pelican a snap.



FOR MORE INFORMATION

Regardless of your customized requirements, our Torque professional services team is on standby, ready to assist. For further details, please contact your local sales rep or our Torque sales team (sales@torquevideo.tv).

SIGNAL ACQUISITION

Inputs	
SD-SDI	✓
HD-SDI	✓
3G-SDI	✓
SDI Input Characteristics	
Color Space Sampling	4:2:2, 4:2:0
Embedded Audio	8 mono / 4 stereo
Maximum Resolution	2048 x 1080
Maximum Framerate	60 fps
Video Pre-Processing	
Scaling	✓
De-Interlacing	Weave, Blend Top/Bottom
Frame Rate Conversion	✓

ENCODING FEATURES

Output Transport Formats	
MPEG-TS	UDP, RTP, RTMP, SRT
OTT Chunked Transport	HLS MPEG-DASH LL [1]
Codecs	
Video	H.264/AVC, H.265/HEVC
Audio	AAC, AC-3
Subtitles & Captions	
SEI embedded captions	option [2]
EIA CEA-708 closed captions	option [2]
Subtitle stream	option [2]

PLATFORM SPECIFICATIONS

System	
Gigabit Ethernet Streaming Port	1
Gigabit Ethernet Management Port	1
Rocky Enterprise Linux	✓
Control Interfaces	
HTML5 GUI	✓
REST API	✓
4-Output Dry Relay Contact [2]	[option]
2-Input Opto-isolated sensor input [2]	[option]

ELECTRICAL AND PHYSICAL

Electrical	
Input Voltage	12V DC
Included Power Supply	88 - 250V
Power Consumption	35W
Operating Temperature Range	10° - 30°C
Physical	
Dimensions	185 x 115 x 35 mm
Weight	800g

Notes:
[1] Product Option
[2] Requires SW Activation License

Copyright © 2025 Torque Video Systems
All rights reserved. Specifications subject to change.

torque VIDEO SYSTEMS