

PUFFIN

- ✓ Compact Streaming Decoder
- ✓ HD-SDI Output supports SD and HD
- ✓ HDMI Output
- ✓ H.264/AVC and H.265/ HEVC Video
- ✓ Live streaming input via UDP, RTMP, SRT
- ✓ Dual-Path SRT Bonding
- ✓ Direct OTT Streaming input via HLS or MPEG-DASH
- ✓ Friendly Web GUI
- ✓ JSON REST API allows easy integration with broadcast control systems

Puffin – Compact Decoder

The Puffin compact decoder provides professional H.264/AVC and H.265/ HEVC decoding to either HDMI or SD/HD-SDI.

The product supports both live streaming via UDP/RTMP/SRT etc and direct input from HLS or MPEG-DASH.

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

TWO MODELS

Puffin is available in two models, one featuring SD/HD-SDI output and other, more compact unit, with HDMI output.



Easily mounted on the back of a TV or LCD Display, Puffin HDMI is particularly suited for combination digital signage and video distribution applications.



COMPACT AND CAPABLE



Fitting into the palm of your hand, the power of Puffin is not to be underestimated.

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

Two Ethernet ports are available, letting you configure streaming input over the same port as the Web GUI or streaming input 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.

Setting up decoding parameters is quick, easy, and straightforward.

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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.



REST API

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

BUILT-IN STORAGE FOR LOCAL PLAYBACK

Essentially a "Smart Decoder", Puffin features ample internal storage for holding prepared video clips. The automatic failover feature will play the uploaded clip(s) if the input signal is lost. Clip playback can also be triggered manually or via the REST API.



FLIGHTDECK™ MANAGEMENT SYSTEM

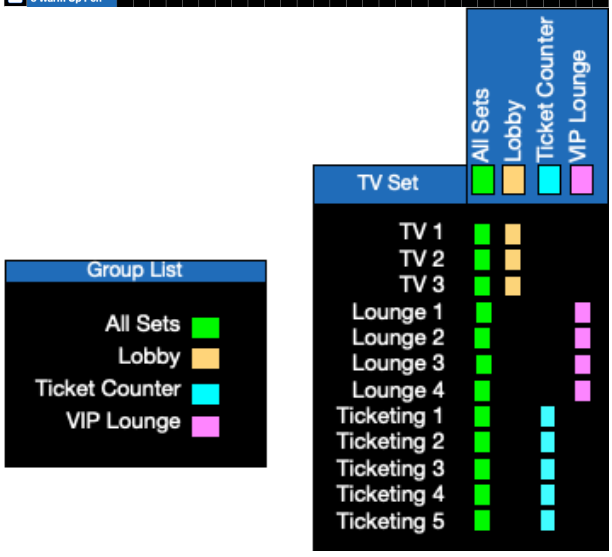
For coordinated control of multiple Puffin decoders, the optional FlightDeck™ system is available.

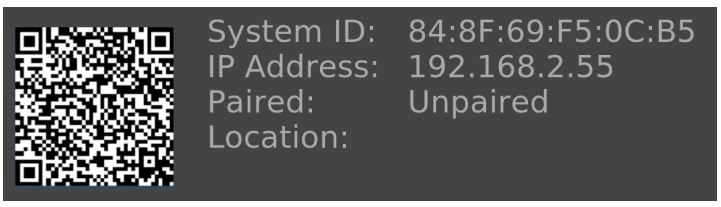
FlightDeck™ lets you simultaneously manage and control multiple Puffin Decoders from a single dashboard.

With a few clicks, you can configure which source feed to tune into, select and play stored clips. Additionally, clips can be uploaded, deleted, or played on multiple units with a single click using the "decoder group" feature.

Decoder groups, defined and configured in FlightDeck™ lets you assign groups of decoders to a common configuration group.

FlightDeck also makes it easy to install and set up remote Puffin. Upon first boot, Puffin displays a unique QR code. Simply scan the code to register with FlightDeck.





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).

PUFFIN SDI

Inputs		
MPEG-TS		UDP, RTP, RTMP, SRT
Clip upload		TS, MP4, MKV
Output		
Formats	SD	525i59.94, 625i50
	720p	720p50, 720p59.94, 720p60
	1080i	1080i50, 1080i59.94, 1080i60
	1080p	1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60
Color Space Sampling		4:2:2, 4:2:0
Audio		16 channels (in HD) 8 channels (in SD) 48kHz 24-bit
System		
Gigabit Ethernet Streaming Port		1
Gigabit Ethernet Management Port		1
Rocky Enterprise Linux		✓
Control Interfaces		
HTML5 GUI		✓
REST API		✓
FlightDeck™ Agent		✓
4-Output Dry Relay Contact		[option]
2-Input Opto-isolated sensor input		[option]
Electrical		
Input Voltage		12V DC
Included Power Supply		88 - 250V
Power Consumption		35W
Operating Temperature Range		10º - 30ºC
Physical		
Dimensions		185 x 115 x 35 mm
Weight		800g

PUFFIN HDMI

Inputs	
MPEG-TS	UDP, RTP, RTMP, SRT
Clip upload	TS, MP4, MKV
Output	
Formats	HDMI 2.0
Resolutions	Up to 4Kp60
Frame Rates	23.98, 24, 25, 29.97, 30, 50, 59.94, 60
Color Space Sampling	per HDMI Spec
Audio	7.1 LPCM
System	
Unified Management/Streaming Gigabit Ethernet Port	1
Rocky Enterprise Linux	✓
Control Interfaces	
HTML5 GUI	✓
REST API	✓
FlightDeck™ Agent	✓
Electrical	
Input Voltage	12V DC
Included Power Supply	88 - 250V
Power Consumption	7W
Operating Temperature Range	10º - 30ºC
Physical	
Dimensions	150 x 95 x 30 mm
Weight	225g

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