Technical Specifications

BOXCAST

BoxCaster Pro

Professional Live Video Streaming Encoder

The BoxCaster Pro is our most powerful encoder—designed for easy, professional-level streaming, and backed by BoxCast's advanced video platform.

MSRP: $3,495

Connections

Video Input
1 SD/HD/3G/6G/12G-SDI (BNC connector)
1 HDMI 2.0a

Video Output
1 SD/HD/3G/6G/12G-SDI Loop Out (BNC connector)
1 HDMI 2.0a Pass Through (Coming Soon)

Audio Input
2 channels embedded via SDI
2 channels embedded via HDMI
2 analog audio inputs (1/4" / XLR combo jacks)
Line level and microphone level support with phantom power

Audio Output
3.5 mm stereo headphone audio output jack (Production Audio)
2 channels embedded in SDI (Embedded Input Audio)
2 channels embedded via HDMI (Coming Soon)

Wired Ethernet
Gigabit Ethernet port (10/100/1000 BASE-T Gigabit)

WiFi
802.11 ac/a/b/g/n 2x2 MIMO

USB
USB 2.0 input for BoxCast Wireless Scoreboard Adapter
USB Type-C

Supported Formats

Supported Video Input Standards
480p 24/29.97/30/59.94/60
576p 25/50
720p 23.98/24/25/29.97/30/50/59.94/60
1080i 48/50/59.94/60
1080p 23.98/24/25/29.97/30/48/50/59.94/60
2160p 23.98/24/25/29.97/30/48/50/59.94/60 (3840x2160)

Supported Video Streaming Standards
480p 24/29.97/30/59.94/60
576p 25/50
720p 23.98/24/25/29.97/30/48/50/59.94/60
1080p 23.98/24/25/29.97/30/48/50/59.94/60

Encoding (Video Compression)
H.264, high profile level 4.2 (AVC)
H.265, main profile (HEVC)

Supported Video Bitrate
300 kbps -- 18 Mbps (Automatically regulated)

Supported Video Transport Protocols
BoxCast Flow: adaptive recovery, content-aware forward error correction, encryption, link quality adjustment, and TCP/UDP diversity.
RTP over UDP

Color Resolution
Input: 4:2:0, 4:2:2, 4:4:4
Streaming: 4:2:0

Color Depth
Input: 8-bit, 10-bit
Streaming: 8-bit

Audio

Audio Control
Adjustable gain for analog audio

Audio Encoding
AAC-LC

Audio Sampling Frequency
48 kHz

Max Audio Bitrate
320 kbps

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Network

Wired Ethernet
Gigabit ethernet port (10/100/1000 BASE-T Gigabit)

WiFi
802.11 ac/a/b/g/n 2x2 MIMO

Network Streaming Protocols
BoxCast Flow, RTP over UDP

Network
IP address assignment via DHCP
Encryption
WEP, WPA/WPA2 Personal via AES/TKIP

Bluetooth
Bluetooth 4.2

Monitoring

Stream Monitoring
Live video preview on device screen

Audio Monitoring
On screen levels for each channel and stream feed
Program audio via headphone output

Streaming

Simultaneous Streams
1 input stream to the BoxCast Platform
Unlimited output streams from BoxCast Platform

Note: The BoxCaster Pro streams exclusively to BoxCast's live
video streaming platform.

Streaming Destinations from the BoxCast Platform
BoxCast Platform, including native players for web, mobile, Apple
TV, Fire TV and Roku
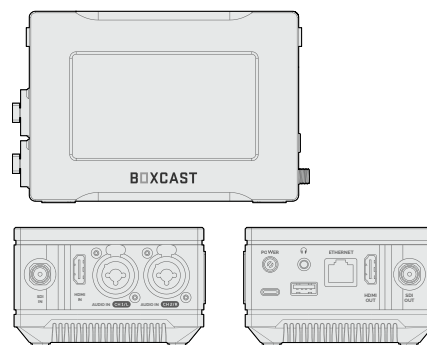Facebook Live
YouTube
Periscope
Any RTMP Destination

Physical

Physical Dimensions
3.87 in x 5.46 in x 2.41 in

Product Weight
1 lb 14.5 oz

Shipping Weight
5 lb 8.8 oz

Construction
Machined, aircraft aluminum body
Hard anodized black finish

Mounting
Vertically with 1/4" 20 mounting hole

Display
4.3", High-brightness, 480px x 272px, resistive-touch LCD

Storage Case
Rugged, hard plastic case with custom foam

Operating Temperature
0°to 40°C (32° to 104°F)

Power Input
12VDC @ 5A supply with threaded, locking barrel jack

Indicator Lights
360 degree LED ring

Other

Control
BoxCast online dashboard, automated start/stop scheduling
BoxCast Broadcaster App for iOS

API Available
Yes for BoxCast Platform, No for BoxCaster Pro hardware

What's in the Box
Rugged, hard plastic case
BoxCaster Pro
12VDC, 5A power supply
Quick start guide

Certifications