

BOXCAST

BoxCaster Pro Technical Specifications

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

UPC: 859492004115



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 passthrough

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

Wired Ethernet

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

Wi-Fi

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

USB

- USB-C port for Power Delivery and BoxCast Scoreboard Assist

Supported Formats

Supported Video Input Standards

- 480p 24/29.97/30/59.94/60 480i 59.94/60
- 576p 25/50, 576i 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)

Audio

Audio Control

- Adjustable gain

Audio Encoding

- AAC-LC

Supported Video Bitrate

150 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, 12-bit
- Streaming: 8-bit

Audio Sampling Frequency

- 48 kHz

Max Audio Bitrate

- 320 kbps

BOXCAST

Network

Wired Ethernet

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

Wi-Fi

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

Network Streaming Protocols

- Live video preview on device screen

Monitoring

Stream Monitoring

- Live video preview on device screen

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.

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

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

Network

- IP address assignment via DHCP

Encryption

- WEP, WPA/WPA2 Personal via AES/TKIP

Bluetooth

- Bluetooth 4.2

Audio Monitoring

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

Streaming Destinations from the BoxCast Platform

- BoxCast Platform, including native players for web, mobile, AppleTV, and Roku
- Facebook Live
- YouTube
- Twitter
- Any RTMP Destination

Operating Temperature

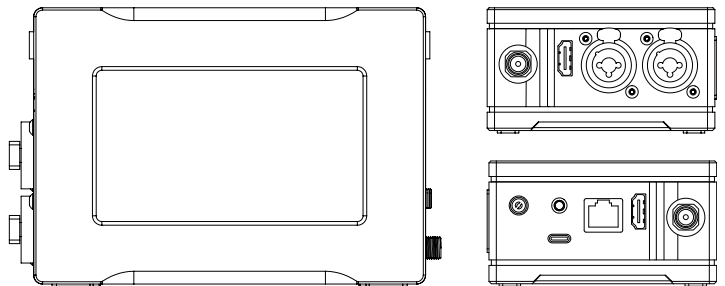
- 0° to 40°C (32° to 104°F)

Product Weight

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

Shipping Weight

- 360 degree LED ring



What's in the Box

- Rugged, hard plastic case
- BoxCaster Pro
- 12VDC, 5A power supply
- Quickstart guide

