# BOXCAST

# **Spark Technical Specifications**

Automate your broadcasts and deliver a professional-quality experience every time, with our newest, feature-rich HEVC encoder (which seamlessly integrates with the BoxCast Platform).

**HDMI Variant UPC:** 00859492004269 **SDI Variant UPC:** 00859492004276

### **Connections**

### **Video Input**

**HDMI Variant** 

• HDMI 2.0a

**SDI Variant** 

· SD/HD/3G/6G/12G-SDI

### **Audio Input**

- · Balanced Stereo In, 2x 1/4" TRS, +4dBu
- Unbalanced Stereo In, 3.5mm TRS, -10dBV

**HDMI Variant** 

· Embedded via HDMI

**SDI Variant** 

· Embedded via SDI

### **Audio Output**

· 3.5mm stereo headphone audio output jack

#### **USB-C**

- Power Source: 5V/3A (15W)
- Power Sink: 9V/3A, 12V/2.25A, 15V/1.8A
- USB 3.2 Gen 1

#### **Bluetooth**

 Bluetooth 5.3 for local configuration using our Broadcaster iOS app

### **Network**

### **Ethernet**

• 10/100/1000 Ethernet

#### Network

• IP address assignment via DHCP

### Wi-Fi

- · 802.11ac, dual band 2.4/5GHz, 2x2 MIMO
- Supports WEP and WPA/WPA2 Personal via AES/TKIP

## **Supported Formats**

### **Supported Video Input Standards**

- 480p 24/29.97/30/59.94\*/60\* fps
- 576p 25/50\* fps
- 720p 23.98/24/25/29.97/30/50/59.94/60 fps
- · 1080i 48/50/59.94/60 fps
- 1080p 23.98/24/25/29.97/30/48/50/59.94/60 fps
- 2160p 23.98/24/25/29.97/30/48/50/59.94/60 (3840x2160) fps

#### **Supported Video Streaming Standards**

- · 480p 24/29.97/30/59.94/60 fps
- 576p 25/50 fps
- 720p 23.98/24/25/29.97/30/48/50/59.94/60 fps
- 1080p 23.98/24/25/29.97/30/48/50/59.94/60 fps

### **Video Encodings**

- H.264, High Profile level 4.2 (AVC)
- · H.265, Main Profile (HEVC)

### **Supported Video Bitrate**

• 150 kbps – 18 Mbps (Automatically or Manually regulated)

### **Supported 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

<sup>\*</sup>Supported by Spark HDMI only

# BOXCAST

### **Analog Audio**

#### **Audio Control**

· Adjustable analog input gain

### **Audio Encoding**

AAC-LC

### **Audio Sampling**

• 48 kHz, 24-bit

### **Monitoring**

### **Video Monitoring**

· Live video preview on device screen

#### **Status Indication**

· Customizable RGB light ring with selectable branded colors

### **Streaming**

### Streaming Destinations from the BoxCast Platform

- BoxCast Platform, including native players for web, mobile, AppleTV, Amazon Fire TV, and Roku
- · Facebook Live
- YouTube
- · X (Twitter)
- Any RTMP Destination

### **Physical**

### **Physical Dimensions**

• 129.5 x 92 x 33 mm

### **Product Weight**

• 11.0 oz

### **Shipping Weight**

• 2 lbs 10.4 oz

### Mounting

 Clip-on stand, clip-on wall mount with 1/4"-20 tripod mount and 75x75mm VESA compatibility

### Other

### **Remote Control and Automation**

- BoxCast online Dashboard, automated start/stop scheduling
- · BoxCast Broadcaster app for iOS
- API available for BoxCast's cloud platform

### **Local Recording**

 Class I microSD card, minimum 16GB capacity, ext4 and EXEAT formats

### **Maximum Audio Bitrate**

• 320 kbps

### **Gain Range**

- · Adjustable analog input gain, 47.5 dB
- \*The balanced and unbalanced inputs cannot be used simultaneously

### **Audio Monitoring**

- On screen levels for each input channel and the stereo output to the broadcast
- · Preview audio via headphone output

### **Simulcasting**

 Capable of streaming to multiple destinations exclusively through BoxCast's live video streaming platform.

### Display

• 4.3" capacitive touch display, 800x480, 50% NTSC, high brightness

### **Operating Conditions**

- 0°C to 40 °C
- 0 to 90% RH, non-condensing

#### Power

- Barrel jack input, 12V DC nominal, 2.1mm x 5.5mm, center-positive
- Also can be powered by a compatible USB-C source
- Power consumption 12W typical, 18W maximum

### What's in the Box

- Spark Encoder
- 12V power adapter
- · Clip-on stand accessory
- · Clip-on wall-mount accessory
- Hardware kit for optional wall mounting or attachment to 75x75mm VESA mount







