AVENIRDrone™

- New integrated mobile hardware built on Qualcomm® Snapdragon™ CPU,
- Lightweight: 300 g / 0.66 lb,
- Dimensions: 126 mm W x 128 mm D x 30 mm H 4.96 in W x 5.03 in D x 1.81 in H
- Video in: HD-SD/SDI and HDMI,
- 64 kbps – up to 18 Mbps,
- Universal camera mount

Deployment

The AVENIRDrone provides highly efficient encoding for HD and SD broadcasting seamlessly via Streambox Enterprise Server or Streambox Cloud Services for local, regional or worldwide deployments.

Infrastructure

The AVENIRDrone performs as a dedicated portable encoder for live video transmissions, bonding any available network connections (3G/4G, LTE, WiFi, LAN, BGAN, and USB mobile modems).

First/Last Mile

The AVENIRDrone bonds all available networks using Streambox exclusive LDMP technology to deliver quality video with low latency. Stream from the AVENIRMicro to any Streambox decoder, Enterprise Server or Streambox Cloud Service to receive, archive and route the video for playout.

Powered by Streambox ACTL-3 Advanced Profile Codec & Streambox LDMP Network Bonding Technology

All Streambox products are powered by our proprietary codec: ACTL3-AP (Advanced Compression Technology Level 3 - Advanced Profile) and equipped with Streambox exclusive LDMP (Low Delay Multi-Path technology).
### Video Formats
- **HD:** 1080i/59.94, 1080i/50, 720p/59.94, 720p/50
- **SD:** (NTSC): 525i/59.94, (PAL): 576i/50

### Video Encoding
- **HD:** 1920, 1440, 1280, 960x1080; 1280, 960, 800, 640x720; 1920x540
- **SD:** 720, 528, 480, 352x480; 320x240; 720, 528, 480, 352x576; 320x288; 720x240; 720x288

### Compression
- Streambox ACTL3- AP

### Audio Formats
- AAC 1/2/4-channels, CELP, GSM 1-channel

### Network Interfaces
- 1x Gigabit Ethernet
- 2x USB 3.0
- 2x WiFi: 1xStreaming, 1xControl (Hotspot) 802.11 a/b/g/n
  - Freq./Power: 2.4 GHz/100 mW | 5 GHz / 200 mW
  - Freq./Power for Israel: 2.4 GHz/100 mW | 5,15 - 5,35 GHz / 200 mW
- Support up to 6 external USB modems
- Modem module (option): 4 embedded 3G/4G/LTE modems up to 6x external USB modems

### Network Protocol
- LDMP 2.0, UDP, TCP

### Forward Error Correction
- Reed-solomon, Parity, Shuffle; adjustable from 0 to 50%

### Video In
- HD/SD-SDI and HDMI

### Audio In
- Embedded SDI Audio - 4ch / HDMI audio 2-ch

### Video Post-Filtering
- Interlaced/progressive post filtering, including de-blocking, de-mosquito, and anti-aliasing

### Metadata
- End-user selectable: Title, Reporter, Location, Group

### IFB Audio Support
- IFB via USB audio adaptor. Up to 12 channels (optional)

### Color Profile
- 4:2:0, 4:2:2

### User Interface
- Front LCD screen. 4 LED for status of video, network, streaming and alarm.
- Remote control via WiFi hotspot, Web browser via local IP and remotely via worldwide management server

### GPS
- Via external GPS w/NMEA

### Connectors
- 2x USB 3.0, 1x Micro USB 2.0, BNC, RJ-45, DC-Jack, HDMI-In, OTG (service)
- 30-pin extension connector running 4x USB 2.0 and I2V breakouts

### Storage
- Micro SD slot

### Operation
- Front panel buttons for unit information, Start/Stop & custom preset
- Web user interface for Automatic and Advanced presets selection
- Automatic presets: Low Delay, Talking Head and Reliable
- Advanced user selectable: sub-second to 14 seconds delay
- Store&Forward to Enterprise Server, Cloud Server and S&F Decoder

### Physical
- Plastic chassis: 126 mm W x 128 mm D x 30 mm H
- 4.96 in W x 5.03 in D x 1.81 in H - 300 g / 0.66 lb
- Top camera mount screw adapter (3/8"-16 to 1/4"-20)

### Power
- AC Adapter 100-240V 50/60Hz, DC 11-17V, Max. 65W
- Battery Module - 1-10 hrs (depending on battery type and usage), 7V - 17V (10W with WiFi or LAN connection, up to 17W with multiple modems)

### Accessories
- AC Adapter / DC Vehicle Adapter (optional)
- Canon LP-E6 hot-swapable battery module - 20Wh, ~ 2hrs (optional)