



# Mobile Broadcasting Live Video Streaming

Soliton Systems offers the Smart-telecaster range of solutions that provides mobile H265/HEVC transmission units for streaming live video for outside broadcast, such as for live news gathering and live sports contribution.

**The robust Zao** is a mobile device that can be mounted on the camera or from a backpack, and can encode and stream over multiple standard **3G and 4G (LTE) mobile networks**, Wi-Fi and/or satellite solutions. It provides extreme reliability, even at low bit rates, with a very low latency. **The Zao-S**, is a tiny encoder that can be used with multiple LTE networks - it can be worn on person and weighs only 400 grams and can live stream to anywhere in the world.

**Units can be placed in moving vehicles** such as motorcycles, cars, helicopters and drones and can stream to any location in the world via the internet. Soliton provides decoding software at the receiving end that can operate on standard Windows machines to decode back to HD-SDI, HDMI or RTxP (IP). Encryption is available.

- ✓ News Gathering Solutions
- ✓ Sport and Outdoor Broadcasting
- ✓ Radio Station Remote Feeds
- ✓ Live Music, Festivals, Churches
- ✓ Public Safety
- ✓ Video Surveillance

## Mobile H.265 Video Contributions

Without the need for Satellite trucks or OB vans, be the first to deliver the story via the simple set-up and reliability of the Zao or Zao-S units. For sports, RF links and helicopter base stations **are no longer required to maintain good quality video links. Transmit high quality live streaming** video quickly and efficiently to the MCR room or Live broadcast station at the broadcaster via the cellular 3G, 4G or Wi-Fi networks. Using Soliton's unique real time RASCOW bonding technology for combining multiple cellular connections, **the systems are much more efficient and reliable than traditional H.264 solutions and can operate at very low cellular signal strength.**



## Zao-S

The Zao-S is an ultra-small encoder for live streaming full HD video. Easy to carry, comes with battery and external power, and can be attached to a bike or moving vehicle.

- ➔ Small H.265/HEVC encoder weighing only 400 grams
- ➔ True portability on a person
- ➔ 3x SIMs
- ➔ Internal Battery
- ➔ WiFi capability
- ➔ RASCOW dynamic bonding of SIMs
- ➔ Input: SDI or HDMI



## Zao

The ZAO is a light weight mobile unit for live streaming HD video. Battery powered and resilient, can be utilised in backpacks, vehicles, and helicopters.

- ➔ H.265/HEVC
- ➔ 6x SIMs
- ➔ WiFi and LAN connectivity
- ➔ RASCOW dynamic bonding of SIMs
- ➔ Input: SDI or HDMI
- ➔ Decodes via HDView with HD-SDI or RTMP, RTSP
- ➔ SmartPhone Zao Controller



## ML-CAM

ML-CAM is an iPhone streaming app that any user can operate on the iPhone to stream video directly to the control room in real-time.

- ➔ Download from Apple Store
- ➔ 3G, 4G or WiFi mobile network
- ➔ License required for duration longer than 10 minutes
- ➔ Decodes via HDView with an HD-SDI output or RTMP



## HD-View

HD-view is the decoding software that resides in the receiving station or control room.

- ➔ Runs on Win7/10
- ➔ HD-SDI or RTMP, RTSP
- ➔ Low Latency
- ➔ Remote control of Zao
- ➔ Two-way audio to the Zao
- ➔ AES 256 encryption



## GPS+

GPS+ can be used on toughbooks and smartphones to stream live video that includes GPS information.

- ➔ Up to 12 real time video streams
- ➔ Search and Archive
- ➔ Add up to 100 GPS pins
- ➔ Watch live video by clicking on pins on the map
- ➔ Two-way audio communication