

# Zao Android App

## Professional live streaming from a phone



### FOR BROADCAST & PUBLIC SAFETY APPLICATIONS

Mobile phones have become ubiquitous in just about every day operation. There appears to be an app for everything. Many apps already have their own live streaming capability such as Facebook Live, but for news gathering and broadcasters they need something a little more sophisticated. They need reliability, very low latency, a talk back feature, and the ability to easily integrate at the receiving end into current media workflows within the broadcast or VMS environment.



### This is where the Zao Android App reigns supreme

The latest generation of Smartphone means it has the hardware power to live stream, compress with broadcast precision and deliver a video experience that is now the envy of many external cameras that are far more expensive.

The flexibility of the Zao Android App is that it can support both H.264 and H.265 compression. The advantage of H.265 HEVC compression is that it requires only half the bit rate for the same video quality. It can support lower latency, typically under a second even where signal is weak. H.264 works better on older phones but also many more back office applications at the receiving destination support H.264. The advantage of the Zao Android App is that you can easily switch between the two compression modes depending on your requirements.

Despite all the complexity under the covers, the app itself is easy to use with a red button just to start or stop the live stream and could be controlled via an Android Smart Watch. It has other features like turning on the light, dimming the screen to save power, choice of front or back cameras (and a thermal camera on some devices) and locking the screen to prevent accidental changes.

### ZAO ANDROID APP

**Broadcast Live Stream & Mobile Surveillance**

**Mobile H.265 Video Live Streaming**

**Installed on Smart Phone**

**Broadcast App in Field**

Full HD Broadcast Quality  
Low latency  
Create HD-SDI or NDI

**Emergency Responders**

Encrypted  
ONVIF Compliant  
Create RTMP (IP)

*\*Supported phones Android 6 or later.  
Please check with a Soliton representative of latest device supported.*

## APP FEATURES

**For Broadcast**, the Zao Android App can be easily used for a variety of TV production applications such as News gathering, Sports Production, Religious events, Live Music to live stream back to the MCR room of a broadcast station.

**For Public Safety** Applications it could be used for law enforcement, emergency first responders including ambulance and firemen, civil rescues, coastguards to send an encrypted video live stream back to a command and control center.

The receiving end can provide a mixture of different video formats for different customer requirements including HD-SDI, NDI, RTMP (Push & Pull) and ONVIF compliant RTMP.

- ✓ Easy to Use
- ✓ Use any camera on phone
- ✓ Turn on light
- ✓ Low Power Mode on Screen
- ✓ Encrypted Option
- ✓ ONVIF Compliant

## HOW THE ZAO APP WORKS FOR LIVE STREAMING

The app can be controlled on the front panel, or it can be controlled remotely via a browser-based web management application. It has different options for camera, lowering screen brightness, light for dark conditions and screen locking capability. The destination IP address can also be changed if required.

## WHAT ABOUT THE RECEIVING END?

There are two solutions for the receiving end, normally installed within the Broadcast Data Centre or Command and Control Centre:

**HD View** – This is a software decoder that is installed on a Win 7 or Win 10 platform at the receiving end. Two versions are available: 1 channel and 4 channel. The receiving end can provide an HD-SDI video output, or it can be configured to provide an RTMP (IP) stream (H.264) that can be pushed to social media or other platform supporting standard H.264 RTMP protocols.

**Zao VMS Plus** – This is a cloud-based software decoder that can be installed in the cloud (for example Azure) or it can be installed on a virtual computer environment within the end user's own data center. The Zao Media Gateway is the preferred choice for law enforcement or other emergency services as it can provide an ONVIF compliant RTMP/H.265 stream with very low latency to their existing VMS system.

**Zao Cloud View** – A hosted or "On-Prem" solution that allows up to 12 incoming Zao Android encrypted video streams, and up to 6 receiving clients to view and record live streams either in the Command Centre or remotely in the field.

*For Pricing and license information, please contact [emea@solitonsystems.com](mailto:emea@solitonsystems.com)*

## SUPPORTED PHONES



**AIRBUS**



Tactilon Dabat is the world's first smartphone and full TETRA radio in one device. In use by Emergency Services.

**SAMSUNG**



Lightweight popular telephone S8 / S9 with Qualcomm Snapdragon 835 chipset. Ideal for broadcasters.

**CAT**



Rugged phone with thermal camera, ideal for fire departments and other tough applications.



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