

## **AirHD - Equipment For Online Video Broadcasting Using 3G/4G LTE Networks**

Backpack with an AirHD device connected to professional or web camera allows you to broadcast FullHD video live

Video is transmitting to your company's server, CDN or online stream channels (ustream, youtube)

Our own development center allows us to customize the equipment under customer specifications (www.airhd.tv)



### **Our Products**

AirHD 110 system placed in a small backpack and allows you to stream high-definition video over mobile networks (3G/4G LTE).

To begin broadcasting you only need to connect AirHD 110 to video or web camera and to use SIM cards of mobile operators. Simple interface and automatic tuning will let you quickly begin video transmission.

System features:

- Use of multiple modems (up to 10 units)
- Work with different cellular networks simultaneously (Multi-Mobile)
- The technology of uninterrupted broadcasting (Adaptive Bitrate)
- Automatic error correction system (Clear Stream)
- Hot swapping of batteries without stopping broadcasting (Hot-Swap)
- GPS / GLONASS tracking of video operator's location (OpLocator)
- Unique antenna unit, enhancing the broadcasting quality



### **Our Company**

AirHD.tv company is based in Moscow and develops technologies and systems for wireless video broadcast since 2012.

Originally our technologies are created for our own projects and won different contests and grants (Tokyo Game Show 2012, Start Fellows, Live Mobile Congress Moscow 2013, Open Innovations 2014).

As the first Russian developers of such systems, we are proud that:

- Our prices are lower than competitors
- We test our equipment online every day and constantly improve it
- Our own development center allows us to configure the equipment under customer requirements

### **Use of the AirHD Systems**

#### **1. TV live**

More recently, to transmit HD video from the streets to live, you were needed a minivan with access to the satellite network and serviced by several people.

For now all you need is to connect your camcorder to AirHD 110 backpack. And one operator can take live reports using a cellular network.



#### **2. Internet media and online video**

Speed and interactivity of online coverage of events is crucial for Internet media and blogs.

Mobile backpack AirHD 110 and web-camera allows you to broadcast online video from the center of events and to instantly respond to the interests of your audience.

#### **3. Remote control in enterprises**

Ease of use of AirHD 110 allows to remotely control different industrial workflows in locations where there is no wired internet.

You can supervise your technicians or conduct video conferences on diversified objects while staying in your headquarter office.



#### 4. Interaction in emergency situations

Mobile video surveillance in real-time simplifies interaction of control centers with operational staff in the field of extreme events.

Video transmission from the events on screens of medical, security or emergency organizations can be invaluable for decision-making in critical situations.

#### AirHD Systems Specifications

Product:	AirHD 110 Pro	AirHD 110 Web	AirHD 110 *Options
Components	6 modems	4 modems	8/10 modems
	System unit, antenna unit with modems, batteries, backpack carrier, tablet PC		
Video resolutions	1920×1080p@30/25/24fps, 1920×1080i@60/50fps, 1280×720p@60/50fps, 720×480p@60fps, 720×480i@60fps, 720×576i@50fps, *1920×1080p@60/50fps		
Video encoding	H.264 AVC high profile		
Video transfer	Your server, CDN, stream channels (Ustream, Youtube)		
Audio encoding	AAC.	AAC.	*CELP, GSM
Recording	On SSD	No	On SSD
Interfaces	SDI <u>or</u> HDMI	USB	*Composite, Component, S-Video, etc.
Networks	6 modems 3G/4G LTE, WiFi	4 modems 3G/4G LTE	*Up to 10 modems, Ethernet, GPRS/Glonass up to 10 USB modems 3G/4G LTE, WiMax, BGAN, etc.
Telecom standards	3G UMTS, 4G LTE, Wi-Fi 802.11	3G UMTS, 4G LTE, Wi-Fi 802.11	*3G UMTS, CDMA, 4G LTE, HSPA+, HSUPA, HSDPA, EVDO, WiMax, Wi-Fi 802.11
Power	1x battery (3 hours of video), 2x battery (6 hours of video)	1x battery (3 hours of video)	*3x high-capacity batteries (8+ hours of video)
User interface	Touch-screen control for a touchpad, server control interface	Touch-screen control for a touchpad	*remote control via the Internet
Antenna	External antenna units, with improved receiving quality		
Extra technologies	Work simultaneously with different cellular networks (Multi-Mobile)		
	The technology of uninterrupted broadcasting (Adaptive Bitrate)		
	Hot swapping of batteries without stopping broadcasting (Hot-Swap)		
	Automatic error correction system (Clear Stream)		
	Setting of video streaming delay time from 4 sec (On Time)		
	*GPS / GLONASS tracking of video operator location (OpLocator)		
	*Use as a Wi-Fi access point		
	*Hardware and software encryption		
Dimensions	System unit with 1 battery: 22 x 14 x 7 cm; weight 2,3 kg. The total weight of a backpack, antennas and battery: 3.2 kg.		
*Options	*An asterisk denotes options which are not included in the standard complete set, but available in individual assembly		

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