

## AB305™

Professional Wireless HD Camera Link

### Applications

- Electronic News Gathering (ENG)
- Sport events
- Reality shows
- Studio/director monitor
- Portable AV applications
- Defense and homeland security

### Key Features

- Full SD/HD support – 1080p, 1080i, 720p, NTSC, PAL
- H.264 Encoding / Decoding
- Low Delay
- SD/HD-SDI inputs
- Unlicensed frequencies (5Ghz, 2.4Ghz)
- Low power consumption (10W)
- Range up to 500 meters



ABonAir's AB305 wireless video link is a revolutionary design of the ABonAir technology that was created to cut system cost dramatically while maintaining high-end performance.

AB305 brings all the performance and features of the high-end quality products of ABonAir in a low cost package to enable budgeted production teams to benefit from robust and reliable wireless video systems.

AB305 is a wireless video system enabling camera teams to send video content directly from a camera to an OB van or as Video Assist, without complex and time-consuming cable setting. AB305 is a perfect fit for video assist applications.

AB305 supports HD and SD in all resolutions and frame rates, with low delay of only 90msec. The system allows video transmission of up to 500 meters in range, while consuming only 10W of power. All these features are delivered in a small, lightweight and compact form factor that is easily attached to any camera.

ABonAir's unique algorithms achieve unmatched picture quality, stability and range. Built on ABonAir's video streaming technology with its continuous bitrate adaptation mechanism, Re-Transmit algorithm and a set of unique enhancement algorithms (including: dynamic/adaptive translating, buffer management, variable CBR®, Flexrate®, Superframe), AB305 is the most robust and reliable solution available today.

ABonAir professional wireless HD links utilize the new H.264 Codec technology that enables 2X compression over MPEG-2 while maintaining the same picture quality. This immediately translates to longer distance and higher picture quality PSNR. AB305 utilizes OFDM radio that assures robust and reliable radio link under the most difficult conditions.

ABonAir's systems have the lowest power consumption in the industry, achieving more battery air time than any other system.

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### Specification

#### Performance

Distance: Up to 500 meter  
Low Delay Mode: 90 msec  
Encryption: AES 128 Bit  
Antenna Diversity Selection: Automatic  
Received Signal Indication: 4 LED Display

#### Radio

Modulation: OFDM  
BPSK, QPSK, 16QAM, 64QAM  
FEC: 1/2, 2/3, 3/4, 5/6, 7/8  
Frequency Range: 2Ghz Band - 2.4 - 2.483 GHz  
5Ghz Band - 4.9 - 5.875 Ghz  
RF Output Power: Preset: 50 mW to 350 mW  
Antenna Connector: RP-SMA

#### Video

Video Formats: 1080p, 1080i, 720p, NTSC, PAL  
(59.94Hz, 60Hz, 50Hz, 30Hz, 25Hz, 24Hz, 23.97Hz)  
Frame Size: HD - 1920 x 1080, 1280 x 720  
SD - 720 x 576, 720 x 480  
Codec: H.264  
GOP Size/Types: I Frame only / IP  
Connector: SD/HD-SDI

#### Audio

Channels: Embedded SDI  
Analog Range: -60 dBm to +18 dBm  
Sampling Rate: Embedded SDI at 48 kHz  
Crosstalk: Better than 60 dB

#### Power

Input Voltage Range: 10 to 14 Volts DC  
Under/Over voltage protection  
Power Consumption: 10 Watts



Actual Size

#### Mechanical

Size: 16 x 8.5 x 3.5 cm  
Weight: 0.3 Kg (0.7lbs)  
Environmental: Operating Range: -10°C to +45°C  
Humidity: 95%  
Tx Form Factor: Camera mount



For more information visit: [www.abonair.com](http://www.abonair.com)

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