AirCam iNG Series
Camera Back Cellular Transmitter

3G/4G LTE Camera Back Transmitter

Overview
Live High-Quality iNG Anytime, Anywhere!

AirCam is the solution for "Live" high quality HD/SD video and audio transmission from anywhere there is WiFi or cellular broadband service. Mobile **Internet News Gathering** (iNG) has never been easier. At the push of a button, live remote video instantly streams from the AirCam to your studio playout unit.

The Live Gear AirCam is a combination camera back COFDM microwave TX and 3G/4G LTE cellular transmission unit which transmits live HD or SD video using H.264 adaptive bit rate encoding technology. Efficient Vislink algorithms deliver persistent video transmission by bonding multiple 3G/4G LTE cellular networks together. Data throughput is maximized to produce uninterrupted high quality HD video with remarkable resolution and minimal latency.

AirCam is available in three basic models:

- The **AirCam^{Max}** features licensed broadcast microwave 2.0–2.7 GHz or 6.4–7.1 and 3G/4G LTE cellular broadband.
- The **AirCam^{Plus}** features 802.11 unlicensed 2.4 and 5.8 GHz WiFi and 3G/4G LTE cellular broadband.
- The **AirCam** features 3G/4G LTE cellular broadband.

All three models support HD/SD-SDI cameras for transmission over Wi-Fi, and/or 3G/4G LTE wireless broadband networks. AirCam uses the Internet to connect to the endpoint distribution hub, typically located at the broadcast studio.

AirCam overcomes cellular bandwidth fluctuations caused by network coverage gaps. Lost or stalled data packets are no longer a problem with Vislink's predictive forward error correction (FEC) algorithms. The power of H.264 adaptive bit rate encoding provides unparalleled signal integrity throughout your live event coverage.

The LGR studio receiver unit aggregates the four incoming segmented IP streams transmitted by the AirCam camera back unit into a single reconstructed IP video transport stream. This IP stream is decoded to SDI video for processing or passed through for retransmission to web based subscribers using the VMS video media server.

The AirCam Advantage:
Stream live video from the field direct to your studio or website. Report live news anytime, anywhere.

- **Mobility:** Small and compact, AirCam is easily docked to IDX or Anton-Bauer battery mounts.
- **Plug-n-Play:** With the push of a button you're "on air" with live remote video streamed to your studio.
- **Transmission Integrity:** Bonded cellular transmission provides persistent connectivity.
- **Cellular Networks:** 3G, 4G LTE
- **WiFi:** 2.4, 5.8 GHz (802.11 a, b, g, n)
- **Video Quality:** Adaptive bit rate H.264 encoding produces HD resolution with minimal latency.
- **Encoding:** H.264 AVC high profile
- **Low Latency**
- **Video Input:** HD/SD-SDI
- **Audio:** Embedded
- **Playout:** A LiveGear Receiver or Video Media Server connects multiple AirStream transmitters to your website.

Bring the news to life with live video
- National News
- Local News
- Politics
- Sports
- School & Community Events

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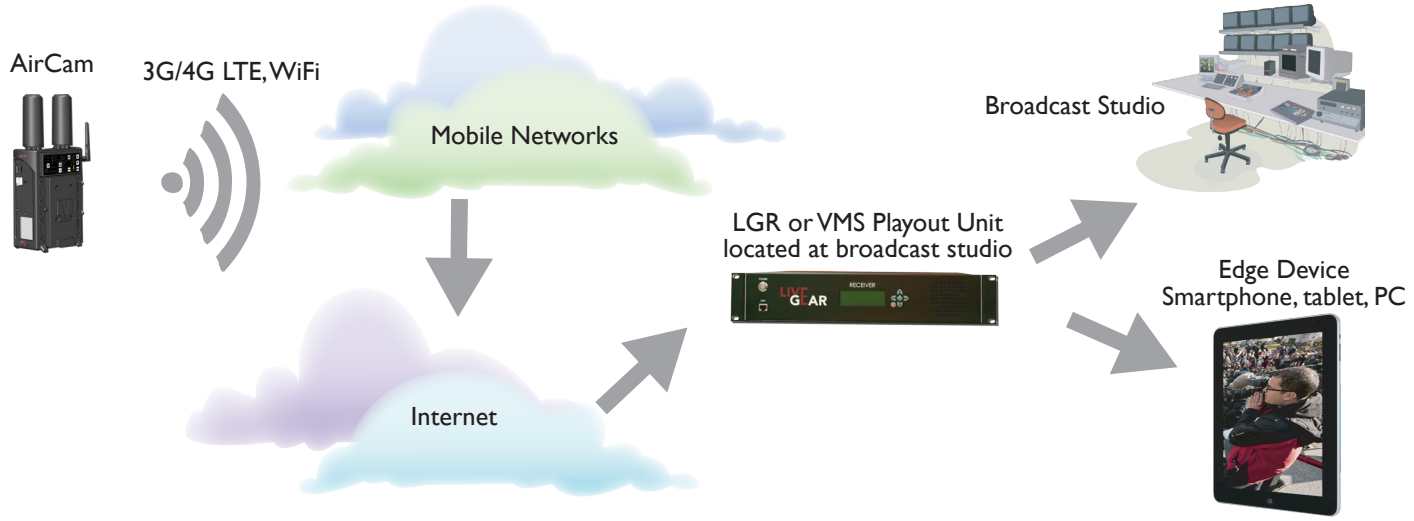
Specifications

Product Profile	Camera back microwave, WiFi, cellular transmitter	Multi-mode, compact, camera back transmitter with licensed, unlicensed, and/or cellular transmission modems
Video	Interfaces	HD/SD-SDI
	Formats	HD, SD
	Resolution	1080i/60 (59.94), 1080i/50, 720p/30 (29.97) US/25 EU (consult factory for othe resolutions)
	Encoding	H.264 AVC high profile 4.1 @ 128 kbps to 10 Mbps 4:2:0 (adaptive bit-rate encoding)
Audio	Digital (Embedded)	Dual
	IFB	2 ea. 1/8" (3.5mm)
Transmission	Licensed Mirowave	2.0–2.7 GHz, 6.4–7.1 GHz (consult factory for other bands)
	Unlicensed Microwave	2.4 and 5.8 GHz WiFi (802.11 a, b, g, n)
	Cellular Networks	3G, 4G LTE (consult factory website for supported modems)
	Latency	2 to 9 sec. end-to-end (typical): Low Delay Mode (2 sec.), Universal Mode (6 sec.), Fringe Mode (9 sec.)
Control/Displays	Local User Interface	Multi-function membrane controller
	Advanced Remote User	Smart Phone, Tablet, Laptop/Desktop PC (web browser interface)
	Indicators	Power, Video, TX mode, RF power, IFB, Delay mode, cell modem, status, Presets, Link Quality
Hard Disk Storage	Internal	64 GB
Power	Anton-Bauer or V-Mount	Via Anton-Bauer or IDX batteries
Physical	Dimensions: 8.75" (22.2 cm) x 2.63" (6.68 cm) x 2.50" (6.35 cm) Weight: 4.2 lbs. (1.9 kg) without battery	

AirCam Cellular Video Transmission System Flow Diagram



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