

Federal Communications Commission

§ 74.870

(1) The power of the measured unmodulated carrier power at the output of the transmitter power amplifier (antenna input power) may not exceed the following:

(i) 54–72, 76–88, and 174–216 MHz bands—50 mW

(ii) 470–608 and 614–698 MHz bands—250 mW

(2) Transmitters may be either crystal controlled or frequency synthesized.

(3) Any form of modulation may be used. A maximum deviation of ±75 kHz is permitted when frequency modulation is employed.

(4) The frequency tolerance of the transmitter shall be 0.005 percent.

(5) The operating bandwidth shall not exceed 200 kHz.

(6) The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB;

(ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;

(iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least $43+10\log_{10}$ (mean output power in watts) dB.

(f) Unusual transmitting antennas or antenna elevations shall not be used to deliberately extend the range of low power auxiliary stations beyond the limited areas defined in §74.831.

(g) Low power auxiliary stations shall be operated so that no harmful interference is caused to any other class of station operating in accordance with Commission's rules and regulations and with the Table of Frequency Allocations in part 2 thereof.

(h) In the event a station's emissions outside its authorized frequency band

causes harmful interference, the Commission may, at its discretion, require the licensee to take such further steps as may be necessary to eliminate the interference.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[43 FR 13576, Mar. 31, 1978, as amended at 52 FR 2535, Jan. 23, 1987; 63 FR 36605, July 7, 1998; 75 FR 3639, Jan. 22, 2010]

§ 74.870 Wireless video assist devices.

Television broadcast auxiliary licensees and motion picture and television producers, as defined in §74.801 may operate wireless video assist devices on a non-interference basis on VHF and UHF television channels to assist with production activities.

(a) The use of wireless video assist devices must comply with all provisions of this subpart, except as indicated in paragraphs (b) through (i) of this section.

(b) Wireless video assist devices may only be used for scheduled productions. They may not be used to produce live events and may not be used for electronic news gathering purposes.

(c) Wireless video assist devices may operate with a bandwidth not to exceed 6 MHz on frequencies in the bands 180–210 MHz (TV channels 8–12) and 470–698 MHz (TV channels 14–51) subject to the following restrictions:

(1) The bandwidth may only occupy a single TV channel.

(2) Operation is prohibited within the 608–614 MHz (TV channel 37) band.

(3) Operation is prohibited within 129 km of a television broadcasting station, including Class A television stations, low power television stations and translator stations.

(4) For the area and frequency combinations listed in the table below, operation is prohibited within the distances indicated from the listed geographic coordinates.

NOTE TO THE FOLLOWING TABLE: All coordinates are referenced to the North American Datum of 1983.

Area	North latitude	West longitude	Excluded frequencies (MHz)	Excluded channels		
				200 km	128 km	52 km
Boston, MA	42°21'24.4"	71°03'23.2"	470–476	14
			476–482	15
			482–488	16

§ 74.870

47 CFR Ch. I (10–1–14 Edition)

Area	North latitude	West longitude	Excluded frequencies (MHz)	Excluded channels		
				200 km	128 km	52 km
Chicago, IL	41°52'28.1"	87°38'22.2"	488–494	17		
			470–476	14		
			476–482	15		
			482–488	16		
Cleveland, OH ¹	41°29'51.2"	81°41'49.5"	470–476	14		
			476–482	15		
			482–488	16		
			488–494	17		
Dallas/Fort Worth, TX	32°47'09.5"	96°47'38.0"	476–482	15		
			482–488	16		
			488–494	17		
			470–476	14		
Detroit, MI ¹	42°19'48.1"	83°02'56.7"	476–482	15		
			482–488	16		
			488–494	17		
			476–494	15, 16, 17		
Hawaii	29°45'26.8"	95°21'37.8"	488–494		17	17
			482–488	16		
			488–494	17		
			494–500	18		
Los Angeles, CA	34°03'15.0"	118°14'31.3"	470–476	14		
			476–482	15		
			482–488	16		
			488–494	17		
			500–506	19		
			506–512	20		
			512–518	21		
			470–476	14		
Miami, FL	25°46'38.4"	80°11'31.2"	476–482	15		
			470–476	14		
			476–482	15		
			482–488	16		
New York/NE New Jersey	40°45'	73°59'37.5"	488–494	17		
			494–500	18		
			500–506	19		
			506–512	20		
			494–500	18		
			500–506	19		
			506–512	20		
			512–518	21		
Philadelphia, PA	39°56'58.4"	75°09'19.6"	470–476	14		
			476–482	15		
			482–488	16		
			488–494	17		
Pittsburgh, PA	40°26'19.2"	79°59'59.2"	494–500	18		
			500–506	19		
			506–512	20		
			512–518	21		
			470–476	14		
			476–482	15		
San Francisco/Oakland, CA	37°46'38.7"	122°24'43.9"	488–494	17		
			494–500	18		
			500–506	19		
			476–482	15		
Washington D.C./MD/VA	38°53'51.4"	77°00'31.9"	482–488	16		
			488–494	17		
			494–500	18		
			482–488	16		
			488–494	17		
			494–500	18		
			500–506	19		

¹ The distance separation requirements are not applicable in these cities until further order from the Commission.

(d) Wireless video assist devices are limited to a maximum of 250 milliwatts ERP and must limit power to that necessary to reliably receive a signal at a distance of 300 meters. Wireless video assist devices must comply with the emission limitations of § 74.637.

(e) The antenna of a wireless video assist device must be attached to the transmitter either permanently, or by

means of a unique connector designed to allow replacement of authorized antennas but prevent the use of unauthorized antennas. When transmitting, the antenna must not be more than 10 meters above ground level.

(f)(1) A license for a wireless video assist device will authorize the license holder to use all frequencies available

for wireless video assist devices, subject to the limitations specified in this section.

(2) Licensees may operate as many wireless video assist devices as necessary, subject to the notification procedures of this section.

(g) *Notification procedure.* Prior to the commencement of transmitting, licensees must notify the local broadcasting coordinator of their intent to transmit. If there is no local coordinator in the intended area of operation, licensees must notify all adjacent channel TV stations within 161 km (100 mi) of the proposed operating area.

(1) Notification must be made at least 10 working days prior to the date of intended transmission.

(2) Notifications must include:

- (i) Frequency or frequencies.
- (ii) Location.
- (iii) Antenna height.
- (iv) Emission type(s).
- (v) Effective radiated power.
- (vi) Intended dates of operation.
- (vii) Licensee contact information.

(3)(i) Failure of a local coordinator to respond to a notification request prior to the intended dates of operation indicated on the request will be considered as having the approval of the coordinator. In this case, licensees must in addition notify all co-channel and adjacent channel TV stations within 161 km (100 mi) of the proposed operating area. This notification is for information purposes only and will not enable TV stations to prevent a WAVD from operating, but is intended to help identify the source of interference if any is experienced after a WAVD begins operation.

(ii) If there is no local coordinator in the intended area of operation, failure of any adjacent channel TV station to respond to a notification request prior to the intended dates of operation indicated on the request will be considered as having the approval of the TV station.

(4) Licensees must operate in a manner consistent with the response of the local coordinator, or, if there is no local coordinator in the intended area of operation, the responses of the adjacent channel TV stations. Disagreements may be appealed to the Commission. However, in those instances, the

licensee will bear the burden of proof and proceeding to overturn the recommendation of the local coordinator or the co-channel or adjacent channel TV station.

(h) Licensees for wireless video assist devices may not be transferred or assigned.

(i) The product literature that manufacturers include with a wireless video device must contain information regarding the requirement for users to obtain an FCC license, the requirement that stations must locate at least 129 kilometers away from a co-channel TV station, the limited class of users that may operate these devices, the authorized uses, the need for users to obtain a license, and the requirement that a local coordinator (or adjacent channel TV stations, if there is no local coordinator) must be notified prior to operation.

[68 FR 12772, Mar. 17, 2003, as amended at 68 FR 69331, Dec. 12, 2003]

EFFECTIVE DATE NOTE: At 79 FR 48545, Aug. 15, 2014, §74.870 was amended by revising paragraph (i), effective Oct. 14, 2014. For the convenience of the user, the revised text is set forth as follows:

§ 74.870 Wireless video assist devices.

* * * * *

(i) *Operations in 600 MHz band assigned to wireless licensees under part 27 of this chapter.* A wireless video assist device that operates on frequencies in the 600 MHz band assigned to wireless licensees under part 27 of this chapter must cease operations on those frequencies no later than the end of the post-auction transition period as defined in §27.4 of this chapter. During the post-auction transition period, wireless video assist devices will operate on a secondary basis to licensees of part 27 of this chapter, *i.e.*, they must not cause to and must accept harmful interference from these licensees.

§ 74.882 Station identification.

(a) For transmitters used for voice transmissions and having a transmitter output power exceeding 50 mW, an announcement shall be made at the beginning and end of each period of operation at a single location, over the transmitting unit being operated, identifying the transmitting unit's call sign or designator, its location, and the call sign of the broadcasting station or