



FCC Regulatory Information and Licensing Requirements for Operation under Part §74.870 Wireless Assist Video Devices (WAVD)



In accordance with Code of Federal Regulations Title 47, FCC part 74, use of this wireless assist video device (WAVD) is restricted to a person or organization engaged in the production or filming of motion pictures or production of television programs. This device are intended to transmit over distances of approximately up to 300 meters exclusively for use as an aid in composing camera shots on motion picture and television sets.

Prior to operating this device in the US a non transferrable and non assignable FCC license for operating this device must be obtained.

This can be filed at <http://wireless.fcc.gov/uls/index.htm>

Operation is prohibited within 129 km of a television broadcasting station, including Class A television stations, low power television stations and translator stations. For the area and frequency combinations listed in the table below, operation is prohibited within the distances indicated from the listed geographic coordinates.

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

¹The 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 WAWD from operating, but is intended to help identify the source of interference if any is experienced after a WAWD 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

During operation of this device, for RF safety and compliance, the transmitting antenna must be kept 20 cm or more from any person or any other RF transmission device.

§ 74.832 Licensing requirements and procedures.

a) A license authorizing operation of one or more low power auxiliary stations will be issued only to the following:

(1) A licensee of an AM, FM, TV, or International broadcast station or low power TV station. Low power auxiliary stations will be licensed for used with a specific broadcast or low power TV station or combination of stations licensed to the same licensee within the same community.

(2) A broadcast network entity.

(3) A cable television system operator who operates a cable system that produces program material for origination or access cablecasting, as defined in §76.5(r).

(4) Motion picture producers as defined in §74.801.

(5) Television program producers as defined in §74.801.

(6) Licensees and conditional licensees of stations in the Service and Multichannel Multipoint Distribution Service as defined in §21.2 of this chapter, or entities that hold an executed lease agreement with an MDS or MMDS licensee or conditional licensee or with an Instructional Television Fixed Service licensee or permittee. (b) An application for a new or renewal of low power auxiliary license shall specify the frequency band or bands desired. Only those frequency bands necessary for satisfactory operation shall be requested.

(c) Licensees of AM, FM, TV, and International broadcast stations; low power TV stations; and broadcast network entities may be authorized to operate low power auxiliary stations in the frequency bands set forth in §74.802(a). (d) Cable television operations, motion picture and television program producers may be authorized to operate low power auxiliary stations only in the bands allocated for TV broadcasting. (e) An application for low power auxiliary stations or for a change in an existing authorization shall specify the broadcast station, or the network with which the low power

broadcast auxiliary facilities are to be principally used as given in paragraph (h) of this section; or it shall specify the motion picture or television production company or the cable television operator with which the low power broadcast auxiliary facilities are to be solely used. A single application, filed on FCC Form 601 may be used in applying for the authority to operate one or more low power auxiliary units. The application must specify the frequency bands which will be used. Motion picture producers, television program producers, and cable television operators are required to attach a single sheet to their application form explaining in detail the manner in which the eligibility requirements given in paragraph (a) of this section are met. (f) Applications for the use of the bands allocated for TV broadcasting must specify the usual area of operation within which the low power auxiliary station will be used. This area of operation may, for example, be specified as the metropolitan area in which the broadcast licensee serves, or the usual area within which motion picture and television producers are operating. Because low power auxiliary stations operating in these bands will only be permitted in areas removed from existing co-channel TV broadcast stations, licensees have full responsibility to ensure that operation of their stations does not occur at distances less than those specified in §74.802(b). (g) Low power auxiliary licensees shall specify the maximum number of units that will be operated. (h) For broadcast licensees, low power auxiliary stations will be licensed for use with a specific broadcast station or combination of broadcast stations licensed to the same licensee and to the same community. Licensing of low power auxiliary stations for use with a specific broadcast station or combination of such stations does not preclude their use with other broadcast stations of the same or a different licensee at any location. Operation of low power auxiliary stations outside the area of operation specified in the

authorization, or in other bands is permitted without further authority of the Commission. However, operation of low power auxiliary stations shall, at all times, be in accordance with the requirements of §74.882 of this subpart.

Also, a low power auxiliary station that is being used with a broadcast station or network other than one with which it is licensed, must, in addition to meeting the requirements of §74.861 of this subpart, not cause harmful interference to another low power auxiliary station which is being used with the broadcast station(s) or network with which it is licensed. (i) In case of permanent discontinuance of operations of a station licensed under this subpart, the licensee shall cancel the station license using FCC Form 601. For purposes of this section, a station which is not operated for a period of one year is considered to have been permanently discontinued. (j) The license shall be retained in the licensee's files at the address shown on the authorization, posted at the transmitter, or posted at the control point of the station.

Note: Sections re-printed here from FCC website. Full documentation can be found at <http://www.gpo.gov/fdsys/pkg/CFR-2011-title47-vol4/pdf/CFR-2011-title47-vol4-part74.pdf>

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