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## Wireless Microphone Factsheet

### The Digital Switchover

#### All Change

Things are all about to change for users of radio microphones in 2012 which is why we've teamed up with Audio-technica to bring you all the latest news and as much information as possible in order to keep you, our valued customers, informed whilst at the same time help to point you in the right direction, when choices need to be made about prospective purchases of wireless systems for the future.

The analogue to digital switchover is government policy and it has been decided that some of the old UHF frequencies will no longer be useable in 2012.

Here's how it will work :-

#### Channel 70 (Licence free -Shared Band)

It's important to remember that the existing space in the deregulated channel 70 band between 863 and 865 MHz will still be useable in 2012 and no licence will be required to use up to a possible 4 frequencies in this band side by side. It should be remembered though, that this is a shared band which runs a high risk of interference. However it may still be ideal for small installations. (In addition the old VHF frequencies between 173.8 and 175.00 MHz will also still be useable in 2012). How long these 'no licence' bands will continue to be available is uncertain at this time.

#### Channel 38 (Licence needed - Shared Band)

Channel 38 is also available for use in churches under a shared licence with less likely hood of interference because for the most part, only professional/responsible users are likely to be using this band. A shared licence for channel 38 systems costs £75.00 per year or £135.00 for two years when booked online from JFMG.co.uk(it costs more by telephone). Once you have paid your licence fee you can use up to 10 systems on 10 different frequencies in the same venue without having to pay anymore. The North West and Cambridgeshire areas cannot use channel 38 because of the need to protect radio astronomy until September 2011. When channel 38 is not available you can use channels 39 and 40 under a shared licence.

To check the availability of channel 38 in your area go to JFMG.co.uk and select Channel 38 lookup tool. (have your postcode ready).



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### 700 SERIES



The Audio Technica 700 series is the entry level system for both channel 70 and channel 38. Prices start from just £199 for a professional system which is switchable between 8 different frequencies. (4 can be used on channel 70)  
All systems use 2 x AA batteries in the transmitters and come with a carry case  
Please state channel required when ordering.

#### 700 Series Prices

Handheld system	£199.00	High quality dynamic mic.
Lavalier system	£219.00	Miniature cardioid condenser mic.
Pro Lavalier system	£368.00	Professional cardioid condenser mic.
Instrument system	£199.00	For use with guitars, keyboards etc.
Standard headset system	£239.00	With hypercardioid dynamic mic.
Pro92 headset system	£289.00	Omnidirectional condenser headset
Professional headset system	£499.00	With discreet hypercardioid condenser mic
Pro Gooseneck system	£411.00	For use on lecterns and pulpits etc.

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### Coordinated Band (Licence needed)

A coordinated licence is the best choice for mission critical applications as it is the only option for full protection from interference.

With coordinated systems the yearly licence fee is only £28.00 per system for the first 6 systems in a single band, the rest of the band is free to use accomodating an additional 4 systems.

If you need to, you can use several bands and far in excess of 10 systems at once as follows:-

- 1 band = 10 systems,
- 2 bands side by side = 16 systems,
- 4 bands side by side = 20 systems

A coordinated licence is site specific and is coordinated with digital television. You can check availability in your location by creating an account in your location on JFMG.co.uk Select the UHF mic/IEM (in ear monitoring) planner and enter your location details.

Licence	No of Systems	Cost	Risk of interference	Range
Deregulated Shared	Up to 4	Free	High	TV Channel 70
Shared Pro user	Up to 10	Single fee of £75 per year for up to 10 systems	Medium	TV Ch. 38
Coordinated	1 <	£28 per system per year	Low	TV Ch. 21-30/ 39-60

### There are 3 available options of frequency bands for use with wireless microphones:-

- \* Deregulated band - TV Channel 70  
863-865MHz Free to use, no licence required.
- \* The Shared bands - TV Channel 38  
854-862MHz  
606-614MHz
- \* Coordinated bands TV Channels 21-30 / 39-60  
470-550MHz  
614-790MHz



artist:  
**Steven Curtis Chapman**  
microphones:  
**audio-technica**



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**2000 SERIES**



Available on Channel 70, Pro-shared, and coordinated frequencies

Audio Technica's 2000 Series now offers increased RF power on both the handheld and beltpack transmitters for increased link stability. Charging contacts on the transmitters allow easy operation with rechargeable batteries. With this breakthrough series, Audio Technica makes easy setup, automatic scanning and other advanced wireless features affordable as never before. Automatic frequency scanning – Standard on all 2000a Series wireless receivers – finds and sets the best available channel at the touch of a button. For those using multiple wireless systems simultaneously, the 2000a Series offers another ease-of-use feature: any of its 10 channels may be used together – eliminating confusing frequency groups and other frequency-coordinated problems.

- \* Automatic frequency scanning finds an open channel at the touch of a button
- \* Up to 10 user selectable channels are available. Compatibility varies from country to country
- \* True Diversity operation selects the better signal from the two receiver sections, reducing dropouts
- \* Tone Lock™ squelch function fights interference
- \* Rugged metal half-rack receiver with soft-touch controls and LCD display featuring RF and AF metering
- \* Ground-lift switch helps eliminate audible hum caused by ground loops between the sound system and receiver
- \* TW-T220a Handheld Microphone/Transmitter features a PRO41 capsule for maximum feedback rejection and consistent sound

### 2000 Series Prices

Handheld system	£349.00	High quality dynamic mic.
Lavalier system	£339.00	Miniature cardioid condenser mic.
Pro Lavalier system	£468.00	Professional cardioid condenser mic.
Instrument system	£319.00	For use with guitars, keyboards etc.
Standard headset system	£359.00	With hypercardioid dynamic mic.
Pro92 headset system	£419.00	Omnidirectional condenser headset
Professional headset system	£598.00	With discreet hypercardioid condenser mic
Pro Gooseneck system	£531.00	For use on lecterns and pulpits etc.

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## Benefits of using coordinated licences include:-

Peace of mind

Whilst you hold your licence no-one else can use your licenced frequencies, leaving you clear of interference.

High power systems can be used on high power when on a coordinated licence.

By using coordinated licences you can avoid the headaches of the 2012 switchover completely and future-proof your wireless microphone systems.

Spectrum availability can be found simply and quickly by visiting [JFMG.co.uk](http://JFMG.co.uk) and entering the postcode of your church or location.

IF YOU HAVE ANY  
QUESTIONS  
REGARDING  
WIRELESS  
MICROPHONES  
JUST CALL

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**3000 SERIES**



### Available on Pro-shared, and coordinated frequencies only

Audio-Technica's third-generation 3000 Series wireless systems offer up to 1001 selectable UHF frequencies and new features for clear sound & intuitive operation. We've simplified selection of usable frequencies, increased system reliability, and illuminated transmitter screens. It all adds up to the luxury of rock-solid, richly detailed high-fidelity sound. The 3000b Series is designed for a wide range of applications including live performance, fixed installation, public address, and houses of worship.

- \* Nine pre-coordinated frequency scan groups simplify selection of usable frequencies in a multi-channel wireless system
- \* True Diversity operation reduces dropouts
- \* Advanced digital Tone Lock™ squelch effectively blocks stray RF and communicates transmitter data for receiver display
- \* Transmitters offer backlit LCD & dual-color LED
- \* Locking battery compartment with secure latch and robust design
- \* Ground-lift switch helps eliminate audible hum caused by ground loops
- \* Balanced and unbalanced audio output jacks
- \* ATW-T310b UniPak® transmitter includes Super Hi-Z input that provides optimum load for guitar pickups
- \* ATW-T341b handheld microphone/transmitter features the Artist Elite® AE4100 cardioid dynamic element
- \* ATW-T371b handheld microphone/transmitter features the Artist Series ATM710 cardioid condenser element

### 3000 Series Prices

Handheld system	£449.00	High quality dynamic mic.
Handheld system	£529.00	High quality condenser mic.
Lavalier system	£439.00	Miniature cardioid condenser mic.
Pro Lavalier system	£568.00	Professional cardioid condenser mic.
Instrument system	£419.00	For use with guitars, keyboards etc.
Standard headset system	£459.00	With hypercardioid dynamic mic.
Pro92 headset system	£519.00	Omnidirectional condenser headset
Professional headset system	£698.00	With discreet hypercardioid condenser mic
Pro Gooseneck system	£631.00	For use on lecterns and pulpits etc.