



Olympus WS Series Digital Voice Recorders:

Recording Mode	Explanation	WS 331M (2GB)	WS 321M (1GB)	WS 311M (512 MB)
STXQ	Stereo extra high quality	35 hours 30 mins	17 hours 40 mins	8 hours 45 mins
STHQ	Stereo high quality	71 hours 00 mins	35 hours 25 mins	17 hours 40 mins
STSP	Stereo standard	142 hours 05 mins	70 hours 55mins	35 hours 25 mins
HQ	High quality sound	142 hours 05 mins	70 hours 55mins	35 hours 25 mins
SP	Standard Recording	279 hours 35 mins	139 hours 40 mins	69 hours 40 mins
LP	Long term recording	555 hours 45 mins	277 hours 35 mins	138 hours 30 mins

- **VCVA** – Variable Control Voice Activator – senses threshold volume of speaker/room and will turn off when the volume level drops below the threshold volume. This saves on battery life because it pauses when there is no recording to take place, then resumes once the volume is increased to threshold again.
- **Microphone Sensitivity**
 - Conf – High sensitivity mode records sounds in all directions.
 - Dict – Low sensitivity mode suited for dictation.
- **Low Cut Filter** – Minimize low frequency sounds and record voices more clearly. Reduce noise from air conditioners, projectors or other such noises.
- **Noise Cancel** – If recorded audio is hard to understand because of noisy surroundings adjust the noise cancel levels of the sound file.
- **Voice Filter** – Cut low or high frequency tones during normal fast or slow playback and enable clear audio playback.
- **WOW XT**– Audio processing technology that increases sound clarity and bass quality.
 - SRS 3D – Surround effect – increases the sound expansion effect and sound clarity.
 - TruBass – Bass effect - enriches low sounds.
- **Erase multiple** – Select the folder you wish to erase and press the erase button twice.

Recording Condition	Recommended Settings		
	Recording Mode	Mic Sensitivity	Low Cut Filter
Conferences with large crowds and lectures in large rooms	ST XQ	Conf	On
Meetings and business negotiations with a small number of people	ST XQ, ST HQ, ST SP		
Dictation with a lot of background noise	ST XQ, ST HQ, HQ	Dict	
Music playing, wild birds signing and railroad sounds	ST XQ	*Set to the volume being recorded.	Off
Dictation in a quiet environment.	There is no particular recommendation. Choose a setting for recording.		

