Microphone STT Benchmark

Word Error Rate (WER) - Lower is Better

#1 MOBILE **4.1%** OnePlus Nord 3 (Quiet)	**#2** DESKTOP **4.4%** UGreen CM564	**#3** DESKTOP **4.8%** ATR4697 (Far)
#4 DESKTOP **5.4%** Samson Q2U	**#5** MOBILE **5.4%** OnePlus Nord 3 (MP3)	**#6** DESKTOP **5.4%** ATR4697 (Close)
#7 DESKTOP **5.4%** Jabra Speak 510	**#8** DESKTOP **5.4%** Logitech C925e	**#9** LAVALIER **5.4%** Maono Elf
#10 HEADSET **5.7%** Logitech H390	**#11** MOBILE **5.7%** OnePlus Nord 3 (HQ)	**#12** HEADSET **6.0%** Yealink BH72 (Dongle)
#13 HEADSET **6.0%** Yealink BH72 (BT)	**#14** MOBILE **6.0%** OnePlus Nord 3 (Noisy)	**#15** DESKTOP **6.3%** Audio-Technica ATR4750...

Microphones Ranked by WER (Best to Worst)

OnePlus Nord 3 (Quiet)
Quiet Environment
WER: 4.1%

UGreen CM564
USB Gooseneck
WER: 4.4%

ATR4697 (Far)
Boundary ~80cm
WER: 4.8%

Samson Q2U
Dynamic USB/XLR
WER: 5.4%

OnePlus Nord 3 (MP3)
MP3 via Voicenotes
WER: 5.4%

ATR4697 (Close)
Boundary ~30cm
WER: 5.4%

Jabra Speak 510
USB Speakerphone
WER: 5.4%

Logitech C925e
Webcam built-in
WER: 5.4%

Maono Elf
Lavalier
WER: 5.4%

Logitech H390
USB Headset
WER: 5.7%

OnePlus Nord 3 (HQ)
HQ Voice Recording
WER: 5.7%

Yealink BH72 (Dongle)
Via USB Dongle
WER: 6.0%

Yealink BH72 (BT)
Via Bluetooth
WER: 6.0%

OnePlus Nord 3 (Noisy)
Ambient Noise
WER: 6.0%

Audio-Technica ATR4750-USB
Condenser Gooseneck
WER: 6.3%

Methodology: Single transcription service for all samples to ensure methodological consistency
Experiment: Daniel Rosehill | Date: 2025-12-23 | 15 samples

Microphones Grouped by Category

UGreen CM564
USB Gooseneck
WER: 4.4%

ATR4697 (Far)
Boundary ~80cm
WER: 4.8%

Samson Q2U
Dynamic USB/XLR
WER: 5.4%

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USB Speakerphone
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Audio-Technica ATR4750-USB
Condenser Gooseneck
WER: 6.3%

Logitech H390
USB Headset
WER: 5.7%

Yealink BH72 (Dongle)
Via USB Dongle
WER: 6.0%

Yealink BH72 (BT)
Via Bluetooth
WER: 6.0%

Maono Elf
Lavalier
WER: 5.4%

OnePlus Nord 3 (Quiet)
Quiet Environment
WER: 4.1%

OnePlus Nord 3 (MP3)
MP3 via Voicenotes
WER: 5.4%

OnePlus Nord 3 (HQ)
HQ Voice Recording
WER: 5.7%

OnePlus Nord 3 (Noisy)
Ambient Noise
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HQ Voice Recording
WER: 5.7%

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MP3 via Voicenotes
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OnePlus Nord 3 (Noisy)
Ambient Noise
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OnePlus Nord 3 (Quiet)
Quiet Environment
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