



# Stellar M 8C

Smart Demo Stellar M 8C




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Data Sheet  
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# Stellar M 8C · Technical Data

Type	Earhook		ThinTube	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
<b>Output sound pressure level</b>				
OSPL 90 at 1.6 kHz	-	137 dB SPL	-	123 dB SPL
OSPL 90 (Peak)	134 dB SPL	139 dB SPL	126 dB SPL	130 dB SPL
HFA-OSPL 90	128 dB SPL	-	117 dB SPL	-
<b>Gain</b>				
FOG at 1.6 kHz	-	63 dB	-	53 dB
FOG (peak)	63 dB	70 dB	56 dB	61 dB
HFA-FOG	55 dB	-	48 dB	-
Reference test gain	51 dB	56 dB	40 dB	47 dB
<b>Frequency, noise and directivity</b>				
Frequency range 80 8C 60 8C / 40 8C / 30 8C / 20 8C	100 - 7500 Hz 100 - 7500 Hz	640 - 7800 Hz 640 - 7800 Hz	100 - 7800 Hz 100 - 7800 Hz	110 - 8800 Hz 110 - 8100 Hz
Equivalent input noise	16 dB SPL	16 dB SPL	18 dB SPL	18 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	2 / 2 / 1 / 1 %	3 / 2 / 1 / - %	1 / 1 / 2 / 1 %	1 / 2 / 3 / - %
Tinnitus Function broadband	70 dB SPL	-	70 dB SPL	-
AI-DI	4.0 dB		4.0 dB	
<b>Inductive coil sensitivity</b>				
MASL (1 mA/m) at 1.6 kHz	-	-	-	-
HFA MASL (1 mA/m)	-	-	-	-
HFA SPLITS (left/right)	-	-	-	-
RSETS (left/right)	-	-	-	-
HFA SPLIV	-	-	-	-
<b>Battery</b>				
Battery voltage	1.25 V		1.25 V	
Battery current drain	1.4 mA	1.4 mA	2.0 mA	2.8 mA
Battery runtime (without streaming)	up to 21 h		up to 21 h	
Battery runtime (incl. 5h streaming)	up to 19 h		up to 19 h	
<b>IRIL IEC 60118-13:2016 Ed. 4.0</b>				
700-960 MHz (rating)	user		user	
1400-2000 MHz (rating)	user		user	
2000-2700 MHz (rating)	user		user	
<b>ANSI C63.19-2011</b>				
800-950 MHz (rating)	M4		M4	
1600-2500 MHz (rating)	M4		M4	

Please find additional information to the values on page "Further Information"

# Stellar M 8C · Features and Accessories

MyCore Platform	80 8C	60 8C	40 8C	30 8C	20 8C
Signal processing (channels) / Gain/MPO (handles)	48 / 20	32 / 16	24 / 12	16 / 8	16 / 8
Hearing programs	6	6	6	4	4
Direct Audio Streaming / Made for iPhone	●	●	●	●	●
My Voice <sup>1)</sup>	●	●	●	–	–
Wireless Sync <sup>1)</sup>	●	●	●	●	●
Volume and control coupling <sup>1)</sup>	●	●	●	●	●
MyCore Speech					
HD Bandwidth (up to 10 kHz)	●	–	–	–	–
iFocus 360 <sup>1)</sup>	automatic	manual	–	–	–
Focus 360	●	●	–	–	–
HD Directionality	●	●	–	–	–
Stereo iLock <sup>1)</sup>	●	–	–	–	–
Directional iLock <sup>1)</sup>	Premium	Premium	Standard	–	–
Voice Ranger	●	●	●	●	●
XPhone <sup>1)</sup>	●	●	●	–	–
Multichannel Adaptive Directional Microphone	●	●	●	●	●
Automatic Directional Microphone	●	●	●	●	●
Fixed Directional Microphone	●	●	●	●	●
Bandwidth Compression	●	●	●	●	●
Intelligent Feedback Preventer	●	●	●	●	●
MyCore Sound Quality and Comfort					
Dynamic Extender	●	●	●	●	●
Auto Volume <sup>2)</sup>	●	●	●	●	●
Microphone-pattern adjustment <sup>1) 3)</sup>	Premium	High	–	–	–
Reverb Reducer	●	–	–	–	–
Music Enhancer	Premium	High	–	–	–
iOmni	●	●	●	●	●
Sound Smoothing (settings)	3	3	on/off	on/off	–
Intelligent Wind Noise Cancellation <sup>1)</sup>	Premium	High	–	–	–
Wind Noise Cancellation	●	●	●	●	–
Noise Management	●	●	●	●	●
Tinnitus Sound Function <sup>4)</sup> (presets)	6	6	6	6	–
Tinnitus Notch Function <sup>4)</sup>	●	●	●	–	–
MyCore Automatic Optimization					
Smart Automatic Equalizer	Premium	Premium	High	–	–
Smart Automatic Acclimatization	Premium	Premium	High	High	Standard
Automatic Classifier	●	●	●	●	●
Data Logging	●	●	●	●	●

<sup>1)</sup> Bilateral fitting required

<sup>2)</sup> Streaming only

<sup>3)</sup> requires Connexx Smart Direct App

<sup>4)</sup> Availability is country-dependent

● available – not available

Performance levels: Premium High Standard

## Stellar M 8C · Features and Accessories

Style specific features	80 8C / 60 8C / 40 8C	30 8C / 20 8C
SecureTec protection	IP68	IP68
Charging contacts	-	-
Battery Size	-	-
Battery door on/off function	-	-
Nanocoated housing	●	●
Wireless programming	●	●
Instrument configurations		
Flat cover	-	-
Rotary volume control	-	-
Push button	●	●
Rocker switch	-	-
Color conversion kit	○	○
Battery door - integrated telecoil	-	-
Battery door - child lock	-	-
Small earhook	○	○
Programming accessories		
ConnexxAir / ConnexxLink	- / -	- / -
Noahlink Wireless	●	●
Programming adapter / cable	-	-
Accessories		
Connexx Smart Key	○	○
CROS inoX 8C	-	-
CROS RIC 8C	○	-
CROS Li RIC 8C	○	-
Connexx Smart Transmitter 2,4	○	○
Connexx Smart Mic	○	○
Smart Li-ion Power	mandatory	mandatory
Apps		
Connexx Smart Direct App	○	○

● available ○ optional - not available

# Stellar M 8C

## Further Information

### Abbreviations

The following abbreviations are used in this datasheet:

OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-On Gain
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
SPLIV	SPL In a Vertical magnetic field
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

### Standards and additional information

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2014 and IEC 60118-0:2015 if applicable.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1:1994 and to DIN 45605 (frequency range) if applicable.
- ▶ Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
- ▶ HD Bandwidth up to 10 kHz for 80 8C devices only.
- ▶ Figures representing Equivalent Input Noise incorporate a moderate expansion.
- ▶ Tinnitus noiser measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- ▶ Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil battery door only.
- ▶ The following acoustic connections / ear pieces were used:
  - Earhook
  - ThinTube
- ▶ The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing instruments supporting RF (radio frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- ▶ The battery runtime is based on first fit settings using 60% of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery runtime is determined by battery quality, hearing loss, sound environment, usage and activated feature set. Regarding RF usage (Bluetooth streaming) two different conditions are considered.

### Special note for instruments with built-in lithium-ion rechargeable battery

- ▶ The runtime of all lithium-ion rechargeable batteries reduces over time. The estimates are based on fresh lithium-ion rechargeable battery capacity. Under normal operating conditions, the battery will retain up to 80% of its initial capacity after 2 years of use. Please note that battery performance will vary depending on individual usage patterns and environmental conditions.

Made for

 iPhone | iPad | iPod

"Made for iPod", "Made for iPhone", and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice.

The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.

#### WARNING

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, children under 3 years or persons of mental incapacity.

#### WARNING

Instrument has an output sound pressure level of 132 dB SPL or more. Risk of impairing the residual hearing of the user.

- ▶ Take special care when fitting this instrument.