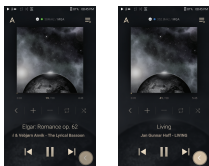


Astell&Kern PPM51 includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording.

The PPM51 Now Playing status shows a green or blue light to indicate that the unit is decoding and playing a MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. A blue light indicates it is playing a MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

The MQA logo is a trademark of MQA Limited. © MQA Limited 2019



Disclaimers

The manufacturer, importer, and distributor shall not be liable for damages including accidental and personal injury due to the improper use or operation of this product. The information in this user manual was written based on current product specifications. The manufacturer, Dreamus Company, regularly adds new features via OTA updates and will continue to apply new technologies in the future. Product specifications may be changed without prior notice. There is no warranty against data loss due to the use of this product.

The device must be used a minimum of 5mm away from the body in normal use conditions.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

The excessive sound pressure from earphones and headphones can cause hearing loss.

Specifications

General Specifications	
Product Name	SA700
Model	PPM51
Body Color	Wolf Gray
Body Material	Stainless Steel
Display	4.1inch 720x1280 touch display
Supported Audio Formats	WAV, FLAC, WMA, MP3, OGG, APE, AAC, ALAC, AIFF, DFF, DSF, MQA
MQA Playback	Services (Tidal Masters), Local files, External USB, MQA-CD(ripped)
Sample Rate	PCM : 8kHz ~ 384kHz (8/16/24/32bits per Sample) DSD Native: DSD64(1bit 2.8MHz), Stereo / DSD128(1bit 5.6MHz), Stereo / DSD256(1bit 11.2MHz), Stereo
Output Level	Unbalanced 2Vrms / Balanced 4Vrms (Condition No Load)
DAC	AKM AK4492 x 2 [Dual DAC]
Decoding	Support up to 32bit / 384kHz Bit-to-Bit playback
Input	USB Type-C input (for PC & MAC)
Outputs	Unbalanced Out (3.5mm) / Balanced Out (2.5, Only 4-pole supported)
Charging	5V---2A
Wi-Fi	802.11 b/g/n (2.4GHz)
Bluetooth	V4.2 (A2DP, AVRCP, aptX™ HD)
Dimensions	2.32"[59.1mm][W] x 4.56"[115.9mm][H] x 0.64"[16.5][D]
Weight	9.98oz (283g)
Feature Enhancements	Firmware upgrade supported(OTA)
Audio Specifications	
Frequency Response	±0.027dB (Condition : 20Hz~20kHz) Unbalanced / ±0.025dB (Condition : 20Hz~20kHz) Balanced ±0.07dB (Condition : 10Hz~70kHz) Unbalanced / ±0.087dB (Condition : 10Hz~70kHz) Balanced
S/N	117dB @ 1kHz, Unbalanced / 117dB @ 1kHz, Balanced
Crosstalk	129dB @ 1kHz, Unbalanced / 136dB @ 1kHz, Balanced
THD+N	0.0004% @ 1kHz, Unbalanced / 0.0005% @ 1kHz, Balanced
IMD SMPTE	0.0005% 800Hz 10kHz(4:1) Unbalanced / 0.0006% 800Hz 10kHz(4:1) Balanced
Output Impedance	Unbalanced out 3.5mm (1.2ohm) / Balanced out 2.5mm (1.6ohm)
Reference Clock Jitter	250 Femto Seconds
Memory	
Built-in Memory	128GB [NAND]
External Memory	microSD (Max. 512GB) x 1
Battery	
Capacity	3,150mAh 3.7V Li-polymer Battery
Supported OS	
Supported OS	Windows 7,8,10(32/64bit) Mac OS X 10.7 and up