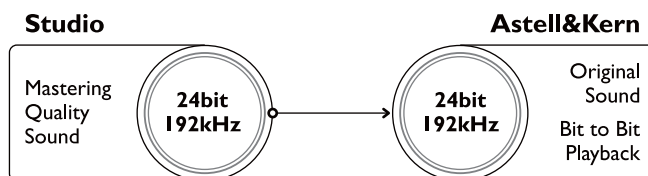


Astell&Kern

MASTERING QUALITY SOUND PORTABLE SYSTEM

Astell&Kern is
the ultimate portable high-fidelity audio system
capable of bit-to-bit playback of
24-bit studio Mastering Quality Sound(MQS).

24-bit, 192kHz digital music processed during studio mastering retains
6.5 times the information that is lost when transcribed to a standard audio CD.
24-bit audio results in a finer, more precise and enhanced sound.
We refer to 24-bit audio as Mastering Quality Sound(MQS).



* CD : 16bit, 44.1kHz

THE NEW STANDARD OF PORTABLE MUSIC

AK100 II

Single DAC

DSD Playback(DSD to PCM)

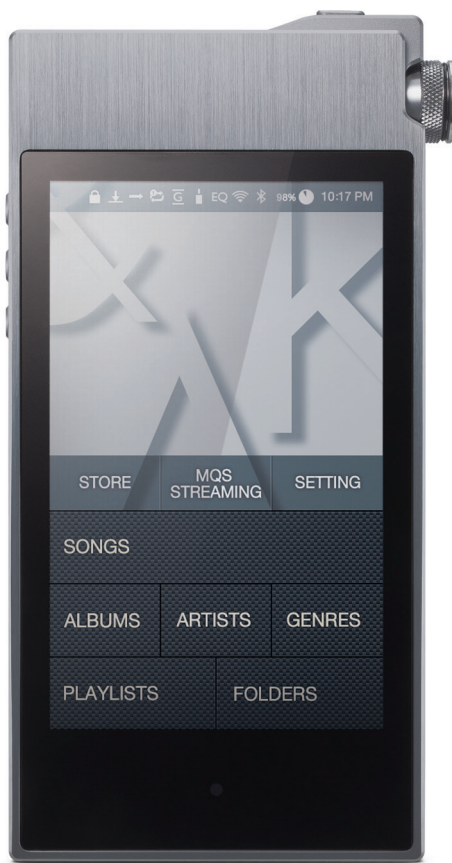
Balanced Output

Wi-Fi MQS Streaming

64GB internal memory

microSD card slot

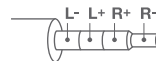
Optical Out



* Actual size

General Specifications

Display	3.31" WVGA(480 x 800) AMOLED Touch Screen
Supported Audio Formats	WAV, FLAC, WMA, MP3, OGG, APE(Normal, High, Fast), AAC, ALAC, AIFF, DFF, DSF
Sample rate	FLAC, WAV, ALAC, AIFF: 8kHz ~ 192kHz(8/16/24bits per Sample)/ DSD: DSD64(1bit 2.8MHz), Stereo/DSD128(1bit 5.6MHz), Stereo
Output Level	Unbalance 2.0Vrms / Balance 1.7Vrms (Condition No Load)
DAC	Cirrus Logic CS4398 x1(Single DAC)
Decoding	Support up to 24bit/192kHz Bit to Bit Decoding
Inputs	USB Micro-B input(for charging & data transfer(PC & MAC))/ Connection Mode: MTP(Media Device)
Outputs	PHONES(3.5mm)/ Optical Out (3.5mm)/ Balanced Out(2.5mm, only 4-pole supported)
Wi-Fi	802.11 b/g/n(2.4GHz)
Bluetooth	V4.0
Dimensions	2.16"(55mm)[W] x 4.37"(111mm)[H] x 0.58"(14.9mm)[D]
Weight	5.99oz(170g)
Body Material	Aluminum
Body Color	Smoky Blue
Feature Enhancements	Firmware upgrades supported(OTA)

**Audio Performance**

Frequency Response	±0.025dB(Condition: 20Hz ~ 20kHz) Unbalance & Balance/ ±0.6dB(Condition: 10Hz ~ 70kHz) Unbalance & Balance
Signal to Noise Ratio	115dB @ 1kHz, Unbalance/115dB @ 1kHz, Balance
Crosstalk	127dB @ 1kHz, Unbalance/130dB @ 1kHz, Balance
THD+N	0.0009% @ 1kHz, Unbalance/0.0008% @ 1kHz, Balance
IMD SMPTE	0.0004% 800Hz 10kHz(4:1) Unbalance/0.0003% 800Hz 10kHz(4:1) Balance
Output Impedance	Balanced out 2.5mm(1ohm)/PHONES 3.5mm(2ohm)

Clock Source

Clock Jitter	50ps (Typ)
---------------------	------------

Memory

Built-in Memory	64GB[NAND]
External Memory	microSD(Max. 128GB) x1

Battery

Capacity	3,150mAh 3.7V Li-Polymer Battery
-----------------	----------------------------------

OS

Supported OS	Windows XP, Windows 7, 8(32/64bit), MAC OS X 10.7. and up
---------------------	---

* **Device Components:** AK100 II Device, Leather Case, Micro USB Cable, Quick Start Guide, Warranty Card, microSD Card Slot Cover x2



Italy PU Case(bundle)



PEF11 Balanced Cable (optional)



Remote control & Cradle(optional)

THE ULTIMATE JOY OF MUSIC

AK I20 II

Dual DAC

DSD Playback(DSD to PCM)

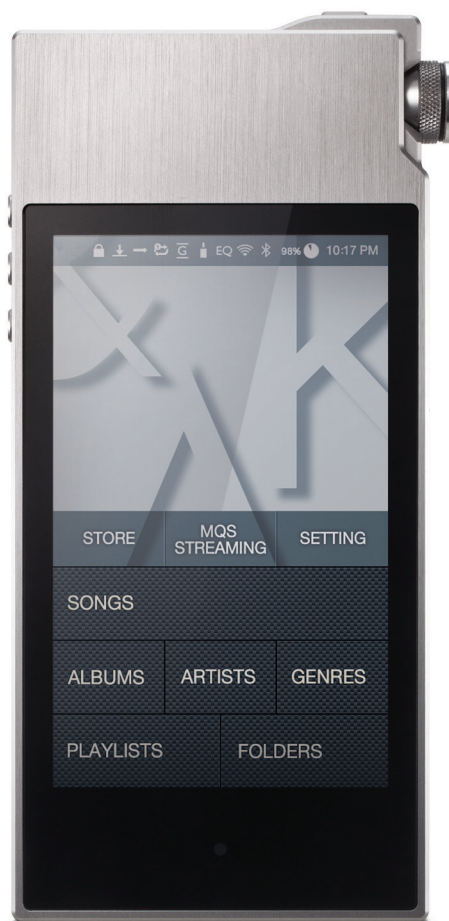
Balanced Output

Wi-Fi MQS Streaming

128GB internal memory

microSD card slot

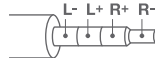
Optical Out



* Actual size

General Specifications

Display	3.31" WVGA(480 x 800) AMOLED Touch Screen
Supported Audio Formats	WAV, FLAC, WMA, MP3, OGG, APE(Normal, High, Fast), AAC, ALAC, AIFF, DFF, DSF
Sample rate	FLAC, WAV, ALAC, AIFF: 8kHz ~ 192kHz(8/16/24bits per Sample) DSD: DSD64(1bit 2.8MHz), Stereo/DSD128(1bit 5.6MHz), Stereo
Output Level	Unbalance 2.1Vrms / Balance 2.3Vrms(Condition No Load)
DAC	Cirrus Logic CS4398 x2(Dual DAC)
Decoding	Support up to 24bit/192kHz Bit to Bit Decoding
Inputs	USB Micro-B input(for charging & data transfer(PC & MAC))/ Connection Mode: MTP(Media Device)
Outputs	PHONES(3.5mm)/ Optical Out(3.5mm)/ Balanced Out(2.5mm, only 4-pole supported)
Wi-Fi	802.11 b/g/n(2.4GHz)
Bluetooth	V4.0
Dimensions	2.16"(55mm)[W] x 4.64"(118mm)[H] x 0.58" (14.9mm)[D]
Weight	6.24oz(177g)
Body Material	Aluminum
Body Color	Stone Silver
Feature Enhancements	Firmware upgrades supported(OTA)



Audio Performance

Frequency Response	±0.023dB(Condition: 20Hz~20kHz) Unbalance & Balance / ±0.3dB(Condition: 10Hz~70kHz) Unbalance & Balance
Signal to Noise Ratio	116dB @ 1kHz, Unbalance/117dB @ 1kHz, Balance
Crosstalk	130dB @ 1kHz, Unbalance/135dB @ 1kHz, Balance
THD+N	0.0007% @ 1kHz, Unbalance/0.0005% @ 1kHz, Balance
IMD SMPTE	0.0004% 800Hz 10kHz(4:1) Unbalance/0.0003% 800Hz 10kHz(4:1) Balance
Output Impedance	Balanced out 2.5mm(1ohm)/PHONES 3.5mm(2ohm)

Clock Source

Clock Jitter	50ps (Typ)
---------------------	------------

Memory

Built-in Memory	128GB[NAND]
External Memory	microSD(Max. 128GB) x1

Battery

Capacity	3,250mAh 3.7V Li-Polymer Battery
-----------------	----------------------------------

OS

Supported OS	Windows XP, Windows 7, 8(32/64bit), MAC OS X 10.7. and up
---------------------	---

* **Device Components:** AK120 II Device, Leather Case, Micro USB Cable, Quick Start Guide, Warranty Card, microSD Card Slot Cover x2



BUTTERO Leather Case(bundle)



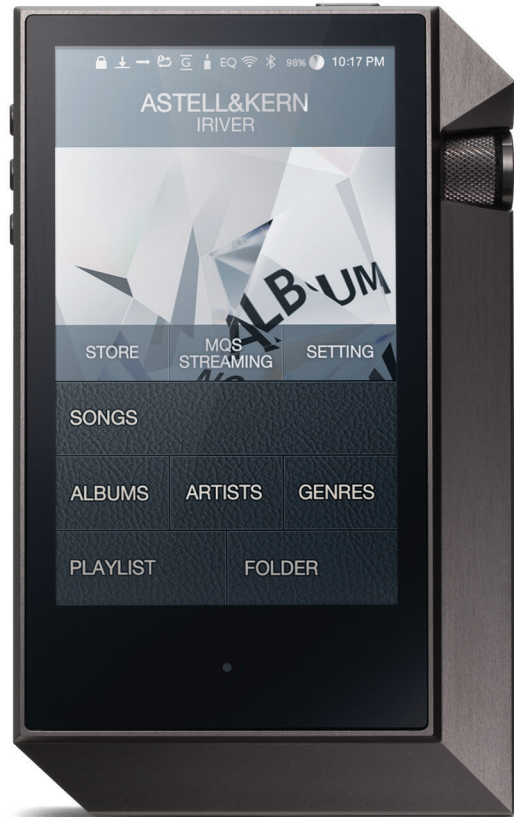
PEF11 Balanced Cable & Cradle(optional)



Remote control(optional)

BE THE ULTIMATE AK240

Native DSD(up to 5.6MHz)
Dual DAC
Balanced Output
Aircraft Grade Duralumin Body
Wi-Fi MQS Streaming
256GB, plus 1 microSD slot



* Actual size



reddot award 2014
winner



AK240 Review

WHAT HI-FI / UK

“A ground-breaking portable music player that plays high-res audio files and includes a series of new features.”

Andy Clough / Jan.2014

AUDIO / Germany

“Somebody who ever hold it in his hands and reviewed the sound would never return it to the loaner.”

Bernhard Rietschel / Mar.2014

The New York Times / USA

“A portable music player that may outdo some home system.”

Roy Furchgott / Feb.2014

General Specifications**Display**
Supported Audio Formats
Sample rate**Output Level**
DAC**Decoding****Inputs****Outputs****Wi-Fi****Bluetooth****Dimensions****Weight****Body Material****Body Color****Feature Enhancements**

3.31" WVGA(480 x 800) AMOLED Touch Screen

WAV, FLAC, WMA, MP3, OGG, APE(Normal, High, Fast), AAC, ALAC, AIFF, DFF, DSF

FLAC, WAV, ALAC, AIFF: 8kHz ~ 192kHz(8/16/24bits per Sample)/
DSD(Native): DSD64(1bit 2.8MHz), Stereo/DSD128(1bit 5.6MHz), Stereo

Unbalance 2.1Vrms/Balance 2.3Vrms(Condition No Load)

Cirrus Logic CS4398 x2(Dual DAC)

Support up to 24bit/192kHz Bit to Bit Decoding, DSD64/128

USB Micro-B input(for charging & data transfer(PC & MAC))/
Connection Mode: MTP(Media Device)PHONES(3.5mm)/ Optical Out (3.5mm)/
Balanced Out(2.5mm, only 4-pole supported)

802.11 b/g/n(2.4GHz)

V4.0

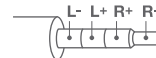
2.59"(66mm)[W] x 4.21"(107mm)[H] x 0.68"(17.5mm)[D]

6.5oz(185g)

Aircraft Grade Duralumin

Gun Metal

Firmware upgrades supported(OTA)

**Audio Performance****Frequency Response** $\pm 0.023\text{dB}$ (Condition: 20Hz ~ 20kHz) Unbalance & Balance/**Signal to Noise Ratio** $\pm 0.3\text{dB}$ (Condition: 10Hz ~ 70kHz) Unbalance & Balance**Crosstalk**

116dB @ 1kHz, Unbalance/117dB @ 1kHz, Balance

THD+N

130dB @ 1kHz, Unbalance/135dB @ 1kHz, Balance

IMD SMPTE

0.0007% @ 1kHz, Unbalance/0.0005% @ 1kHz, Balance

Output Impedance

0.0004% 800Hz 10kHz(4:1) Unbalance/0.0003% 800Hz 10kHz(4:1) Balance

Balanced out 2.5mm(1ohm)/PHONES 3.5mm(2ohm)

Clock Source**Clock Jitter**

50ps(Typ)

Memory**Built-in Memory**

256GB[NAND]

External Memory

microSD(Max. 128GB) x1

Battery**Capacity**

3,250mAh 3.7V Li-Polymer Battery

OS**Supported OS**

Windows XP, Windows 7, 8(32/64bit), MAC OS X 10.7. and up

* **Device Components:** AK240 Device, Leather Case, Micro USB Cable, Quick Start Guide, Warranty Card, microSD Card Slot Cover x2

MINERVA Leather Case(bundle: Olive green color, optional: Black/ Coral/ Peacock Blue color)



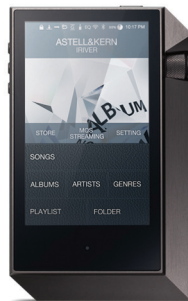
PEF11 Balanced Cable & Cradle(optional)



Remote control & Cradle(optional)

Astell&Kern

Compared with Products



Model

AK240

Body Color

Gun Metal

Body Material

Aircraft Grade Duralumin

Dimensions

2.59" (66 mm)[W] x 4.21" (107 mm)[H]
x 0.68" (17.5 mm)[D]

Weight

6.5oz (185g)

Output Level

Unbalance 2.1Vrms/
Balance 2.3Vrms(Condition No Load)

DAC

Cirrus Logic CS4398 x2 (Dual DAC)

Frequency Response

±0.023dB (Condition: 20Hz~20kHz)
Unbalance & Balance/
±0.3dB (Condition: 10Hz~70kHz)
Unbalance & Balance

Signal to Noise Ratio

116dB @ 1kHz, Unbalance/
117dB @ 1kHz, Balance

Crosstalk

130dB @ 1kHz, Unbalance/
135dB @ 1kHz, Balance

THD+N

0.0007% @ 1kHz, Unbalance/
0.0005% @ 1kHz, Balance

IMD SMPTE

0.0004% 800Hz 10kHz(4:1) Unbalance/
0.0003% 800Hz 10kHz(4:1) Balance

Output Impedance

Balanced out 2.5mm (1ohm)/
PHONES 3.5mm (2ohm)

Clock Jitter

50ps (Typ)

Memory

Built-in: 256GB[NAND]/
External: microSD (Max. 128GB) x1