

Presentation version DEC.2018

Hybrid vacuum tube speaker system Mark 150&ES55

Ehe vintage



LOUDSPEAKER

ES55









**VACUUM TUBE** 





EAI/IEAI Advanced DSP sound technology E.A.I bass&3D effect



HDMI IN-OUT Minimum diffraction horn type design







25kHz



anodizing finish





**Auto detecting** 



6 Active speaker





Conex Damper



PC USB



**PMCM Enclosure** 











MK150 •

HYBRID VACUUM TUBE AMPLIFIER SYSTEM

LOUDSPEAKER

LS55









**VACUUM TUBE** 





EAI/IEAI sound technology E.A.I bass&3D effect

HOMI

HDMI IN-OUT



Bluetooth



80W RMS



Aluminium anodizing finish



**Auto detecting** 



Phono port







Headphone amplifier



Advanced bass airflow guiding technology



**Minimum diffraction** horn type tweeter



28kHz



**Dual-layer** 



4 Active speaker



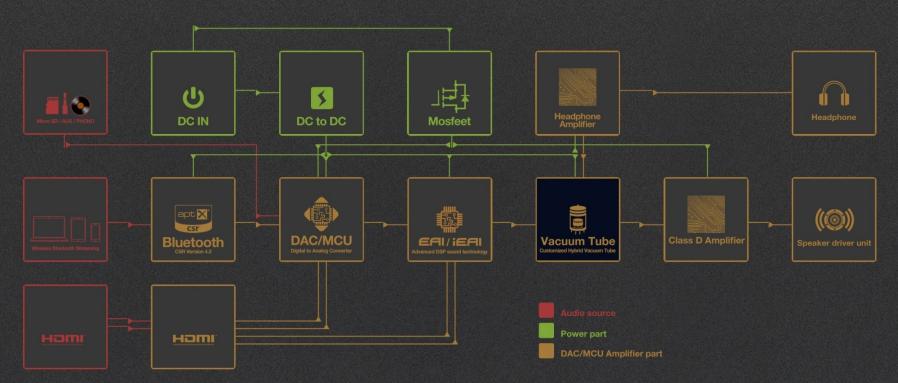
Damper



**PMCM Enclosure** 

**Matt finish coating** 

# **AMPLIFIER** PART Operating principle



Warm Rich music tones & Stunning Vocals.





#### **VACUUM TUBE**

Customized hybrid vacuum tub

The quality of LANCHIYA® customized vacuum tubes for the new hybrid amplifiers is the same as what the military industrial enterprise requests.

We take the advantage of the even harmonics to enhance the dynamic range and the frequency response of the sound. The tubes can make the sound mellow and charming. The life of the tubes is about 50,000 hours



Advanced Sound Technology through Research & Development.



#### **ADVANCED SOUND TUNNING TECHNOLOGY**

Experience our audio technology taken to new heights with E.A.I. & Digital Sound Processing (DSP) Fine-tuned for perfection maximum power generated from LANCHIYA ES25,LS7,LS20,LS25 loudspeaker

#### E.A.I™ bass boost & 3D effect sound

The Lanchiya® patented EAI™ Bass Boost function is the special design for the bass-lovers. Hit the special button for the stronger bass. if the original Hi-Fi sound is not enough. The SPL will be enhanced for 6dB by curve when the bass range is between 40Hz-250Hz. Lanchiya®EAI™ 3D effect function can help to get more feeling of live music concert from the standard music and to get the best sound in various playback environment like games, TV, movie scenarios etc.







LANCHIYA®EAI™ (Electronics&Acoustics Integration) chip module to make the electronics, speaker drivers and housing structure match each other perfectly so that the whole speaker system can perform at its best status and produce the best sound. With the help of DSP to correct the input signal in a nondestructive way, the whole speaker system can perform beyond its physical limitation.



#### Work with



Wireless Bluetooth® Streami



Bluetoot CSR Version 4 Bluetooth™ CSR™ apt X®to transmit 16 bits 44.1kHz and max 16 bits 48kHz CD quality music.

Aluminium anodizing finished rotating knob for mode control and LED indicator



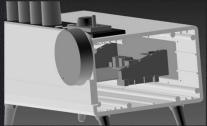


#### Intuitional user control interface

Aluminium anodizing finished rotating knob for functiona control (Bluetooth-AUX-Phono-PC USB-HDMI) and Aluminium anodizing finished rotating knob for volume control Aluminium control switches for the headphone amplifier select and two sound effect button and Bluetooth pairing button. It is about the useful and intuitional user control interface design.



Powerful music energy ready to play





#### **PMCM Enclosure**

High Polymer Plasticity Micro Crystal Material



#### Matt finish coating

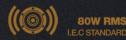
High class surface painting technology

Enclosure with PMCM (Plasticity Micro Crystal Material) acoustic material coated with Lanchiya® Matt finish coationg paint. Nice workmanship and no sticky forever. Good structural strength prevents from unnecessary resonance.



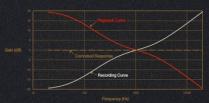
Powerful music energy ready to play





40W x 2(L,R) Total 80W RMS (T.H.D 1%) Output power (I.E.C Standard)





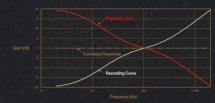


# **Phono port**

RIAA curve standard design Professional Phono port

(RIAA standard design) Professional Phono port for making LP's bass balance







## **Phono port**

RIAA curve standard design Professional Phono port

(RIAA standard design) Professional Phono port for making LP's bass balance







Powerful music energy ready to play



Power adaptor 24V 3A



Auto detecting
Loudspeaker output port



PC USB



AUX input port
for getting
additional multimedia
audio sources.



Line-in for independent headphone amplifier mode



HDMI IN-OUT



Phono port
RIAA Standard design
Professional Phono port



#### MK150 and **LS55**









**Minimum diffraction** horn type tweeter for natural sound reproduction

Conex

**Damper** 



**PMCM Enclosure Matt finish coating** High Polymer Plasticity Micro Crystal Material



28kHz Silk dome Super Tweeter



**Dual-layer** Ferrite magnet

High class surface painting technology

6 Active speaker 4" x2 driver unit with crossover network 2Way 3Speaker x 2 (L.R)



Advanced bass airflow guiding technology

MK150 and **ES55** 









Conex

**Damper** 



25kHz Silk dome Super Tweeter



Triple-layer Ferrite magnet



6 Active speaker 2 3/4" x2 driver unit with crossover network 3Way 3Speaker x 2 (L.R)

**PMCM Enclosure Matt finish coating** High Polymer Plasticity Micro Crystal Material High class surface painting technology

Advanced bass airflow guiding technology

HYBRID VACUUM TUBE AMPLIFIER SYSTEM



# LOUDSPEAKER PART

3Way 3Speaker LOUDSPEAKER ES55





Minimum diffraction horn type design for natural sound reproduction

25kHz Silk dome Super Tweeter





Triple-layer Ferrite magnet

6 Active speaker 2 3/4" x2 driver unit with crossover network







Conex Damper

PMCM Enclosure
High Polymer
Plantisity Misro







Matt finish coating
High class surface
painting technology

Advanced bass airflow guiding technology

Hybrid vacuum tube speaker system Mark 150&ES55

The vintage

## LOUDSPEAKER



LOUDSPEAKER PART

**LOUDSPEAKER** ES55







The tweeter used to reach to 15-20kHz. But Lanchiya R&D team is willing to make it reach up to 25kHz with their 35 years experience. The advanced silk dome tweeter which imported from Japan will be used for the amplifier. The perfect tweeter can be presented based on the perfect match by the tubes and the amplifier.

# **LOUDSPEAKER PART**

LOUDSPEAKER ES55



6 Active speaker 2 3/4" x2 driver unit with crossover network 3Way 3Soeaker x 2 (L.R)





3Way 3Speaker ( bass range + mid range + treble range ) with advanced professional crossover network design enjoy the warm rich music tones & Stunning Vocals.

2 3/4" x4 driver units, 0.8" 25kHz super tweeter x2 design. with professional crossover network design.

# LOUDSPEAKER ES55

The Option



**ES55**Basic bookshelf type



E\$55 Stand type (ABS VER) Stand type (WOOD VER) **ES55**Basic bookshelf type



ES55

Stand type



# **LOUDSPEAKER PART**



LOUDSPEAKER ES55





Matt finish coating
High class surface painting technology



PMCM Enclosure
High Polymer Plasticity Micro Crystal Material

Enclosure with PMCM (Plasticity Micro Crystal Material) acoustic material coated with Lanchiya® Matt finish coationg paint. Nice workmanship and no sticky forever. Good structural strength prevents from unnecessary resonance.







- Conex damper
- Conex Damper

Triple layers Ferrite magnet



Triple-layer Ferrite magnet • 100% paper-pulp speaker cone design



100% paper-pul cone design

# **35years** Experience

Paper-pulp speaker unit design has been around for decades. However, through many years of R&D testing and improvements, LANCHIYA® a developed a precise special formula to ensure LANCHIYA® 100% paper-pulp design has achieved the most advantageous solution in the industry.

LANCHIYA®'s professional design and engineering team has worked on Audio field for 35years. We design, develop, research, and produce every speaker unit from beginning to the end to guarantee perfect quality control.

#### **HYBRID VACUUM TUBE AMPLIFIER & LOUDSPEAKER**

#### MK150&ES55

LANCHIYA® Customized Vacuum Tube, 50,000 hours life

E.A.I™ / i.E.A.I™ (Intelligent Electronics & Acoustics Integration Design)

E.A.I Bass Booster & 3D sound effect

40W x2 Total 80W RMS Output power (THD1%)

HDMI.Bluetooth, AUX, PHONO, PC-USB.Headphone line-in input port

Bluetooth™ CSR™ aptX®to transmit16 bits 44.1kHz or 16 bits 48kHz CD quality music.

Full aluminum anodizing finished control switch

Built-in independent high performance headphone amplifier

Headphone output port

Super high-range 25kHz silk dome & neodymium magnet tweeter

Triple layers ferrite magnet

3way 3speaker x2 (L,R) design

2 3/4" Bass-range + 2 3/4" Mid-range + 0.8" Tweeter x2 (L,R)

100% paper-pulp cone speaker driver unit design & Conex damper

PMCM+ABS Speaker Enclosure material

Minimum diffraction horn type tweeter for natural sound reproduction





Designed by

LANCHIYA ACOUSTICS RESEARCH

2570 N First St, 2nd Floor San Jose, CA 95131 U.S.A.

A masterpiece will speak any way for itself.



**Minimum diffraction** horn type tweeter for natural sound reproduction



Silk dome Super Tweeter



**Dual-layer** 6 Active speaker Ferrite magnet 4" x2 driver unit with



crossover network 2Way 3Speaker x 2 (L.R) Damper



High Polymer Plasticity Micro Crystal Material



PMCM Enclosure
High Polymer
Plasticity Micro
Control Madeiol
High class surface painting technology
High class surface painting technology





# LOUDSPEAKER PART

3Way 3Speaker LOUDSPEAKER **LS55** 

Hybrid vacuum tube speaker system Mark 150&LS55

Ehe vintage

# LOUDSPEAKER







Silk dome Super Tweeter



The tweeter used to reach to 15-20kHz. But Lanchiya R&D team is willing to make it reach up to 28kHz with their 35 years experience. The advanced silk dome tweeter which imported from Japan will be used for the amplifier. The perfect tweeter can be presented based on the perfect match by the tubes and the amplifier.

# **LOUDSPEAKER PART** 2Way 3Speaker ( bass&mid range + treble range ) with advanced professional crossover network design enjoy the warm rich music tones & Stunning Vocals.

4" x4 driver units, 0.8" 28kHz super tweeter x2 design. with professional crossover network design.

LOUDSPEAKER ES55



6 Active speaker
4" x2 driver unit with crossover network
2Way 3Speaker x 2 (LB)

LOUDSPEAKER ES55



ES55 STANDARD TYPI



ES55 TAND TYPE

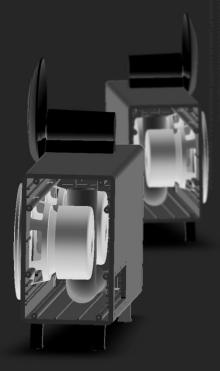


LOUDSPEAKER PART













Matt finish coating



**PMCM Enclosure** 

Enclosure with PMCM (Plasticity Micro Crystal Material) acoustic material coated with Lanchiya® Matt finish coationg paint. Nice workmanship and no sticky forever. Good structural strength prevents from unnecessary resonance.



# **35years** Experience

Paper-pulp speaker unit design has been around for decades. However, through many years of R&D testing and improvements, LANCHIYA® a developed a precise special formula to ensure LANCHIYA® 100% paper-pulp design has achieved the most advantageous solution in the industry.

LANCHIYA®'s professional design and engineering team has worked on Audio field for 35years. We design, develop, research, and produce every speaker unit from beginning to the end to guarantee perfect quality control.

#### **HYBRID VACUUM TUBE AMPLIFIER & LOUDSPEAKER**

#### MK150&LS55

LANCHIYA® Customized Vacuum Tube. 50,000 hours life

E.A.I™ / i.E.A.I™ (Intelligent Electronics & Acoustics Integration Design)

E.A.I Bass Booster & 3D sound effect

40W x2 Total 80W RMS Output power (THD1%)

HDMI.Bluetooth, AUX, PHONO, PC-USB.Headphone line-in input port

Bluetooth™ CSR™ aptX®to transmit16 bits 44.1kHz or 16 bits 48kHz CD quality music.

Full aluminum anodizing finished control switch

Built-in independent high performance headphone amplifier

Headphone output port

Super high-range 28kHz silk dome & neodymium magnet tweeter

Dual layers ferrite magnet

2way 3speaker x2 (L,R) design

4" Bass & Mid-range x2 + 0.8" Tweeter x2 (L,R)

100% paper-pulp cone speaker driver unit design & Conex damper

PMCM+ABS Enclosure material

Minimum diffraction horn type tweeter for natural sound reproduction











Devigned by

LANCHIYA ACOUSTICS RESEARCH

2570 N First St, 2nd Floor San Jose, CA 95131 U.S.A.

Ehe wintage
A masterpiece will speak any way for itself.



**Power adaptor** 24V 3A



**Auto detecting** Loudspeaker output port Customized 4PIN connector solution



PC USB External sound card port





**Phono port** RIAA Standard design Professional Phono port



Line-in



Headphone amplifier



HDMI IN-OUT HDMI 1.4 Repeater with





#### CONNECTIVITY

Bluetooth AUX 3.5mm Stereo type PHONO RCA type PC-USB Standard USB type HDMI in-out Version 1.4 Headphone line-in



#### **POWER**

Power voltage : AC100-240V, 50/60Hz DC24V 3A (Power adaptor) Amplifier output power : 80W (RMS)  $4\Omega$  (  $40W \times 2$  L.R.) Amplifier input sensitivity :  $\leq$ 775mV Amplifier SNR :  $\geq$  80dB THD :  $\leq$ 19%



#### SUPPORT LOUDSPEAKER SERIES BASED ON THE BUILT-IN E.A.I DSP SOLUTION







#### DIMENSIONS



Bluetooth



FREQUENCY RESPONSE (AMPLIFIER)





MK150: HYBRID VACUUM TUBE AMPLIFIER SYSTEM



#### CONNECTIVITY

Bluetooth AUX 3.5mm Stereo type PHONO RCA type PC-USB Standard USB type HDMI in-out Version 1.4 Headphone line-in



#### **POWER**

Power voltage : AC100-240V, 50/60Hz DC24V 3A (Power adaptor) Amplifier output power : 80V [RMS) 4 $\Omega$  (  $40W \times 2$  L.R.) Amplifier input sensitivity :  $\leq$ 775mV Amplifier SNR :  $\geq$  80dB THD :  $\leq$ 1%



# 







#### **DIMENSIONS**



#### Bluetooth

Bluetooth version : CSR 4.2V+EDR A2DP / apt X apt X



#### FREQUENCY RESPONSE (AMPLIFIER)

40Hz~28KHz







#### **POWER HANDLING**

40W RMS ~ MAX 100W RMS x2 (LR)



#### **NOMINAL IMPEDANCE**





#### MID-RANGE SPEAKER DRIVER UNIT

2 3/4" \$\, 69.85mm x 2 (L,R) mid-range speaker driver units Paper cone, Dual-layers ferrite magnet, Conex damper



2 3/4" \$\phi69.85mm x 2 (L,R) mid-range speaker driver units Paper cone, Dual-layers ferrite magnet, Conex damper



#### FREQUENCY RESPONSE (LOUDSPEAKER)



#### SUPER TWEETER DRIVER UNIT

0.8" \$\phi22mm x 2PCS 28kHz Silk dome tweeter



#### 3Way 3Speaker design

(Bass-range + Mid-range + Tweeter)



#### **DIMENSIONS**



LOUD SPEAKER SYSTEM

HYBRID VACUUM TUBE AMPLIFIER SYSTEM



#### CONNECTIVITY

Bluetooth AUX 3.5mm Stereo type PHONO RCA type PC-USB Standard USB type HDMI in-out Version 1.4 Headphone line-in



#### **POWER**

Power voltage : AC100-240V, 50/60Hz DC24V 3A (Power adaptor) Amplifier output power : 80W [RMS] 4 $\Omega$  (  $40W \times 2$  L.R.) Amplifier input sensitivity :  $\leq$ 775mV Amplifier SNR :  $\geq$  80dB THD :  $\leq$ 1%



#### SUPPORT LOUDSPEAKER SERIES

BASED ON THE BUILT-IN E.A.I DSP SOLUTION







#### **DIMENSIONS**

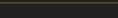


Bluetooth version : CSR 4.2V+EDR A2DP / apt X



#### FREQUENCY RESPONSE (AMPLIFIER)

40Hz~28KHz





#### **POWER HANDLING**

**NOMINAL IMPEDANCE** 



\*

## **BASS & MID-RANGE SPEAKER DRIVER UNIT**

4" \$\phi102mm x 4 (L,R) Bass & mid-range speaker driver units Paper cone, Dual-layers ferrite magnet, Conex damper



#### SUPER TWEETER DRIVER UNIT

0.8" ¢22mm x 2PCS 28kHz Silk dome tweeter Neodymium magnet



#### 2Way 3Speaker design



#### FREQUENCY RESPONSE (LOUDSPEAKER)

45Hz~28KHz



#### **DIMENSIONS**



SENSITIVITY 1M/1W





### AMPLIFIER COLOR | OPTION

## LOUDSPEAKER COLOR | OPTION













#### **LANCHIYA INTELLIGENT ACOUSTICS**

Lanchiya Intelligent Acoustics is a group composed of Lanchiya Acoustics (USA) Research, Lanchiya Electronics Technology (Japan) Co.,LTD, Lanchiya Acoustics (Korea) Research and Lanchiya Digital Technology CO.,LTD. Since the foundation of Lanchiya Acoustics (USA) Research by over 20 audio experts in California(US) in 2006, Lanchiya has created a strong R&D team and a first-class electronic and electro-acoustic laboratory, which has made countless innovations in audio field. Lanchiya R&D team focus on the Industrial design, Electro-acoustic, the Structure and Materials of the products.

After years of research and exploration, Lanchiya has achieved a lot such as speaker miniaturization technology, operational simplifications and sound performance etc. And we has registered 55 various patents. We also developed nearly a hundred innovative products. Each of these products features fantastic appearance, fabulous sound and easy operations We implement the ISO9001 and CCC quality management systems, SA8000 and BSCI social responsibility management system. And we have imported more than 20 advanced inspection instruments such as Environment Simulation Tester, Transport Simulation Vibration Tester, Salt Spray Tester, Electro-acoustic Tester etc. We authorize the professional market research to do the market research and make sure the innovations and the sales strategies are perfect. Benefit from these advantages, the Amethyst brand has made a great commercial success. Amethyst speakers are sold in more than 56 countries all around the world. Our own brand Amethyst had won the Top 4 market share (BOSE, JBL, Home, Amethyst) in MFI docking speaker ranking in UK, and won the Top 5 in France. The major customers include Britz, INKEL (Sherwood), IRIVER, KOIZUMI, NAKAMICHI, DANTAX etc. Many big retailers ever sold our products. Such as Walmart, Mediamarkt, Tesco, Bestbuy, Superdansk, Dixson etc.

Nowadays, Al is becoming more and more popular. Lanchiya starts to do the research and development of intelligent psychoacoustics products which can feel the consumers, satisfy their emotion, and even improve their mental and physical health. We promise that you will be surprised to see our new creative product series of Hybrid Vacuum Tube Amplifiers for developing the LANCHIYA brand.

Each year, we will join the global exhibitions such as CES, IFA, HKTD, Canton Fair etc. We sincerely invite you to visit our booth and make the long-term cooperation relationship with us.



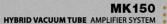
2570 N First St. 2nd Floor San Jose, CA 95131 U.S.A

K-Center #901, Simindearo 248, Beon-gil 25, Dongan-gu Anyang-City, Gyeonggi-do, 14067 KOREA 10th Floor, Shizuya Bld. 5-51-11, Higasi-Nippori, Arakawa-Ku, 1160014 Tokyo, JAPAN Hongtu Road, Songxia Industry Zone, Songgang, Foshan City Guangdong Province 528234 CHINA

> WWW.LANCHIYA.COM info@lanchiya.com



# Presentation



LOUDSPEAKER

**ES55** 

# OLANCHIYA"

2370 N First St, Znd Floor San Jose, CA 95131 U.S.A.
K-Center 9501, Simindearo 248, Been-gill 25, Dongan-gu Anyang-City, Gyeonggi-do, 14067 KOREA
10th Floor, Shizuya Bild. 5-51-11, Higasi-Nipport, Arakawa-Ku, 1160014 Tokyo, JAPAN
Hongtu Road, Songasi Indiustry Zone, Songasan, Fotham City Guangdong Province 228234 CHINA

Info@lanchiya.com WWW.LANCHIYA.COM



# Presentation



2570 N First St, 2nd Floor San Jose, CA 95131 U.S.A

K-Center #901, Simindearo 248, Beon-gil 25, Dongan-gu Anyang-City, Gyeonggi-do, 14067 KOREA 10th Floor, Shizuya Bid. 5-51-11, Higasi-Nippori, Arakawa-Ku, 1160014 Tokyo, JAPAN Hongtu Road, Songxia Industry Zone, Songgang, Foshan City Guangdong Province 528234 CHINA MK150
HYBRID VACUUM TUBE AMPLIFIER SYSTEM

LOUDSPEAKER

LS55

Info@lanchiya.com WWW.LANCHIYA.COM