ENJOY INCREDIBLE VIEWING EXPERIENCE AT ANY TIME

4K smart laser projector for engineering

R&D BACKGROUND

As a new projection light source, laser projection solves many problems that projectors used to encounter, such as life span, color, power consumption and so on. Although the advantages brought have been recognized by the market, the picture presentation is no longer the only one, and the pursuit of higher quality output, simpler operation and more effortless post-maintenance has become the mainstream demand of the market.

Based on years of technical accumulation, Soundking has launched a fully upgraded series of commercial 4K smart laser engineering projector series, using the advanced international optical technology, a new unique circuit design, and created a new 4K smart laser engineering projection technology. And it has been comprehensively improved in terms of high-definition picture, service life, practicality and after-sales service. Addresses high-quality needs in market such as conferences, classrooms, and training areas. Combined with the high-tech audio system independently developed by Soundking, the solution of audio-video fusion technology of "To be pioneer and superior" can be achieved, so that perfect audio-video effect can be obtained in the application field.

T68 4K Smart Ultra Short-throw Laser Engineering Projector Features

① Modular Laser Light Source 20000+ Hours Life Span High Energy-Efficiency Ratio

Laser light source with new modular design, higher integration and smaller size. High and uniform brightness performance at the same power level; Provides bright, standard, soft, high dynamic, low dynamic and other brightness modes, with linear adjustment of light source brightness;

② Full-system 4K   Support HDR

DLP advanced large size 0.66 "4K flagship Ultra-HD chip system, providing UHD picture quality; White field uniformity is high, matching imbalances will not occur over time, providing excellent white field picture quality. Native high contrast, better filling ratio, provides high dynamic contrast, rich color expression and sharp image. For real content reproduction in a wider range of lighting conditions.

③ 0.24:1 Motorized Ultra Short Focus Lens

Customized 4K electric focus lens; High MTF value is suitable for 4K Ultra HD picture output; 0.24:1 ultra short projection ratio, small footprint, support for hanging installation, less restrictions on installation positions, suitable for most environments.

④ Advanced Smart System

Host core MSD6A838, 3G+32G hardware, dual-band Wi-Fi, Bluetooth 5.0 Super Hardware configuration, self-development system, built-in clustered conferencing (network conferencing), Hi projection (wireless casting), screen saver album and many other business environment customization applications.

⑤ Advanced Audio System

Built-in dual 15W flagship loudspeaker, DTS-HD, Dolby MS12-Y dual-decode high quality sound. Provides cinema, music, sports, news and other sound modes. Provides high-level settings such as equalizer, sound balance, sound and image synchronization to meet the high quality requirements of audio.

⑥ Abundant and Complete Image Processing and Application

MEMC independent image processing engine, dynamic frame insertion, color enhancement, detail enhancement is all-in-one; Provides advanced debugging for white balance linear correction. On the basis of RGBCYM six color HSG color correction, additionally develops skin color correction to provide more natural skin color restoration performance. Multipoint correction provides better picture correction and supports automatic correction for photo upload.

⑦ Commercial Proprietary Systems Pre-installed Many Applications   Convenient Operation

For commercial needs, provide a dedicated system without on-line advertising. The on and off pictures can be customized to highlight the customization characteristics. Multiple self-developed applications such as gathering meetings/Hi projection/screen saver albums/VIDDA assistants for convenient operation.

TA50 4K Smart Ultra Short-throw Laser Engineering Projector Features

① Modular Laser Light Source 20000+ Hours Life Span High Energy-Efficiency Ratio

Laser light source with new modular design, higher integration and smaller size. High and uniform brightness performance at the same power level; Provides bright, standard, soft, high dynamic, low dynamic and other brightness modes, with linear adjustment of light source brightness; Set the desired brightness output at will.

② DLP Advanced 4K Ultra HD Plate   Support HDR

DLP advanced 4K ultra HD display chip provides UHD image quality; White field uniformity is high, matching imbalances will not occur over time, providing excellent white field picture quality. Native high contrast, better fill ratio, provides high dynamic contrast, so that the color performance of the picture is rich, the image is clear and bright. The T50 Series supports the display of high-dynamic range HDR (High-Dynamic Range) content for true content reproduction in a wider range of bright conditions.

③ High Quality Ultra Short Focus Motorized Lens Made in Japan
4K Ultra Clear Picture Quality Resolution

4K high resolution customized motorized lens made in Japan. MTF value is qualified for 4K Ultra-HD picture quality output, with clear and sharp focus at four corners; Extra large aperture design, effectively expands the amount of light input, more abundant brightness output; 0.25:1 Ultra-short projection ratio, greater adaptability in a constrained installation environment, electric focus, easy debugging.

④ Advanced Smart System

Host core MT9639, 3GROM, 32GRAM, dual-band Wi-Fi, Bluetooth 5.0 Super Hardware configuration, self-development system, built-in clustered conferencing (network conferencing), Hi projection (wireless casting), screen saver album and many other business environment customization applications.

⑤ Advanced Audio System

Built-in 15W*2 flagship loudspeaker, DTS-HD, Dolby MS12-Y high quality sound. Provides cinema, music, sports, news and other sound modes. Provides high-level settings such as equalizer, sound balance, sound and image synchronization to meet the high quality requirements of audio.

⑥ Abundant and Complete Image Processing and Application

MEMC independent image processing engine, dynamic frame insertion, color enhancement, detail enhancement is all-in-one; Provides advanced debugging for white balance linear correction. On the basis of RGBCYM six color HSG color correction, additionally develops skin color correction to provide more natural skin color restoration performance. 8-points correction provides better picture correction and supports automatic correction for photo upload. Supports switching light effect settings and integrates with the environment; Switch on and off pictures can be customized to highlight their exclusive features.

⑦ Pre-installed Many Applications   Convenient Operation

Gathering meetings/Hi projection/screen saver albums/VIDDA assistants, etc. for convenient operation

P80/P100 4K Smart Laser Engineering Projector **Features**

① Modular Laser Light Source 20000+ Hours Life Span High Energy-Efficiency Ratio

Laser light source with new modular design, higher integration and smaller size. High and uniform brightness performance at the same power level; Provides bright, standard, soft, high dynamic, low dynamic and other brightness modes, with linear adjustment of light source brightness;

② Full-system 4K   Support HDR

DLP advanced 4K engineering-grade ultra HD chip system, providing UHD picture quality; White field uniformity is high, matching imbalances will not occur over time, providing excellent white field picture quality. Native high contrast, better filling ratio, provides high dynamic contrast, rich color expression and sharp image. The 4K picture quality engine supports displaying high dynamic range HDR content for real content reproduction in a wider range of lighting conditions.

③ Liquid + Air Hybrid Cooling System 720 Degree Free Projection 7X24 Hours Constant Working

The liquid cooling module ensures that the light source module is in the best working state. The structure of the inlet and outlet air ducts to prevent the thermal interference of the ducts to the imaging, and the industrial cooling fan to ensure the thermal efficiency. Matrix hybrid cooling system with liquid cooling module and copper tube cooling module for efficient cooling. The optical module is designed with YIP5X high-grade air-tight and dust-proof, high-temperature ceramic sintering fluorescent color wheel, to ensure long-time operation.
P80/100 commercial laser focuses on current, power consumption, temperature performance, provides higher resistance to electrical interference, shock. The entire system uses engineering-grade chips and components. Core modules such as light component, motherboard, power supply, heat dissipation are optimized in depth, so that the voltage, current, temperature, humidity and other characteristics meet more stringent environmental requirements.

④ Replaceable 4K Center Motorized Lens   4K Picture Quality

Host core MT9639, 3G RAM, 32G ROM, dual-band Wi-Fi, Bluetooth 5.0 Super Hardware configuration, self-development system, built-in clustered conferencing (network conferencing), Hi projection (wireless casting), screen saver album and many other business environment customization applications.

⑤ Advanced Smart System

Built-in 15W*2 flagship loudspeaker, DTS-HD, Dolby MS12-Y high quality sound. Provides cinema, music, sports, news and other sound modes. Provides high-level settings such as equalizer, sound balance, sound and image synchronization to meet the high quality requirements of audio.

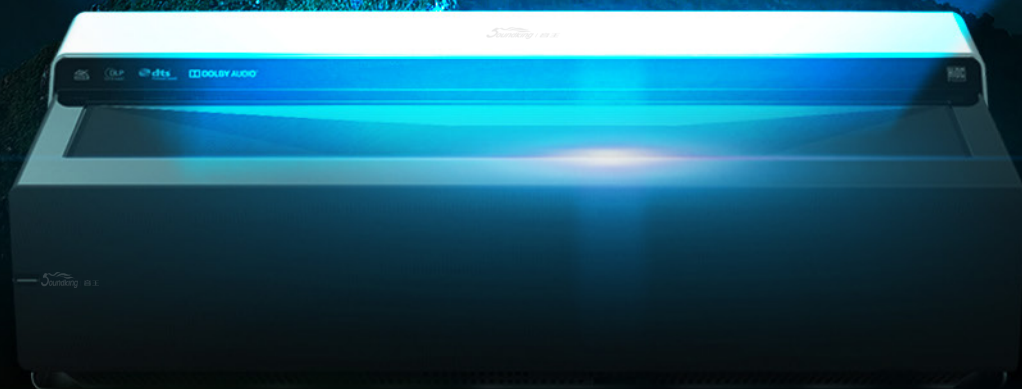**⑥ Commercial Proprietary Systems Pre-installed Many Applications Convenient Operation**

MEMC independent image processing engine, dynamic frame insertion, color enhancement, detail enhancement is all-in-one; The color temperature is linearly adjustable in 100K units. Provides advanced debugging for white balance linear correction. On the basis of RGBCYM six color HSG color correction, additionally develops skin color correction to provide more natural skin color restoration performance. Multipoint correction provides better picture correction and supports automatic correction for photo upload.

INCREDIBLE BRIGHTNESS
RICOH 4K CUSTOMIZED RESOLUTION LENS

Customized 4K-HDR High brightness Lens
True image in bright environments Enjoy every detail

4K

NEW MEMC
STABLE AND SMOOTH DYNAMIC IMAGE
NO JITTER NO DRAG

MEMC Independent Picture Processing Engine
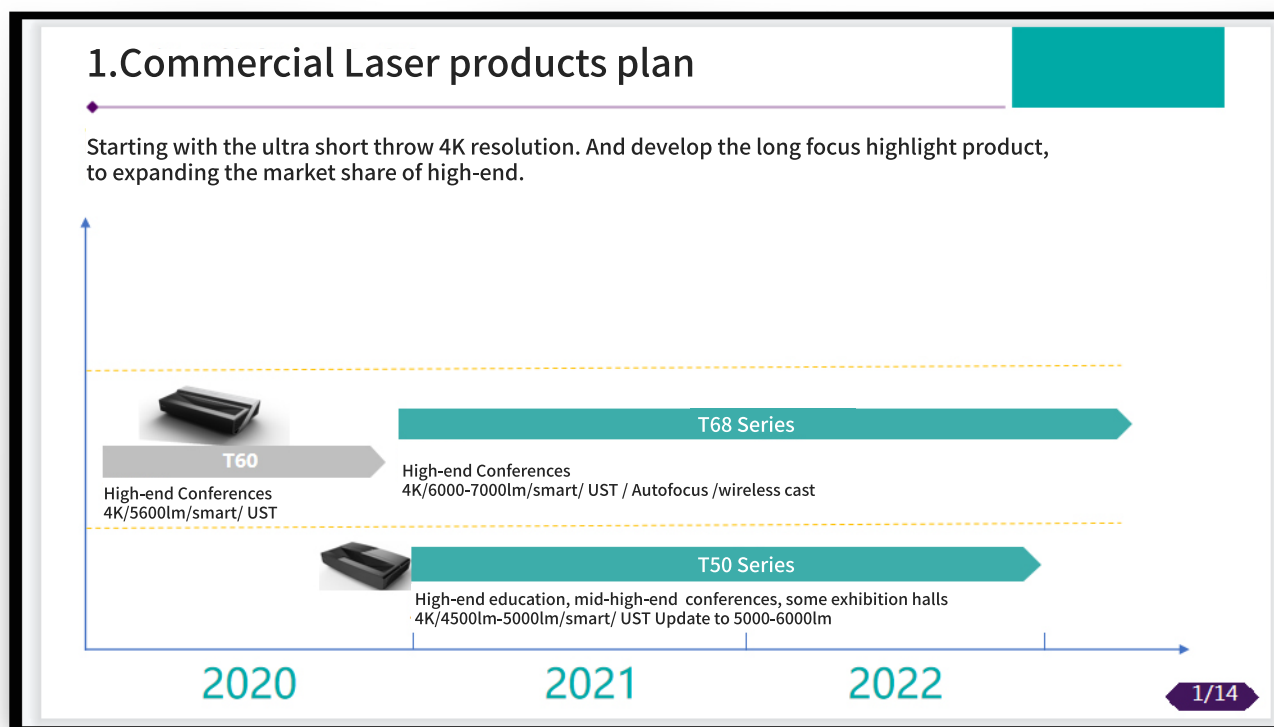Enhances Picture Dynamic & Color & Details

New MEMC

No MEMC

Comparison

WIRELESS CASTING

Hi screen sharing can realize fast screen casting of mobile phones
Wireless screen sharing can realize multi-split screen operation of computer and mobile phone without network

1.Commercial Laser products plan

Starting with the ultra short throw 4K resolution. And develop the long focus highlight product, to expanding the market share of high-end.

T60
High-end Conferences
4K/5600lm/smart/ UST

T68 Series
High-end Conferences
4K/6000-7000lm/smart/ UST / Autofocus /wireless cast

T50 Series
High-end education, mid-high-end conferences, some exhibition halls
4K/4500lm-5000lm/smart/ UST Update to 5000-6000lm

2020   2021   2022

1/14

share file

share video

share image

ALL-AROUND GEOMETRIC CORRECTION
WITH A LARGER SCREEN AT THE SAME DISTANCE
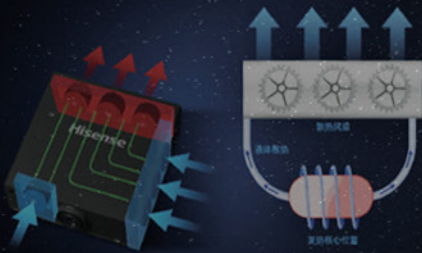# SMART ELECTRIC FOCUS SQUARE PICTURES EVERYWHERE

180"

150"

120"

100"

Distance from the bottom
edge of the screen to the cabinet

570mm

478mm

407mm

402mm

570mm

423mm

254mm

157mm

**Distance from the rear
of host to the screen**

P80/P100

STABLE OPERATION WITHOUT FEAR OF COMPLEX ENVIRONMENT

Liquid + Air Cooling   Efficient Heat Dissipation

Built-in liquid + air hybrid cooling system, exclusive liquid-cooled heat dissipation module ensures that the light source module is in the best working condition. The structure of multiple air inlets and one-sided air outlets on the front side prevents the thermal interference of the air ducts to the imaging. Industrial-grade silent cooling fan, fully ensuring the efficiency of heat transfer.

IP5X+ Dustproof System Strong Protection

Optical engine has IP5X+ high density dust protection, effectively ensuring long-term operation of optical module.
Full metal airtight compartment, airtight design, exclusive airtight gasket, fully airtight color wheel dust-proof design.

720° Free Projection
Suitable for Various Installation Requirements

The projector can be adapted to different angle projection to achieve 720 degree free projection. Install projectors from different angles to accommodate a variety of environments and applications for creative displays.

7x24 Hours Constant Working 20,000+ Hours Long-time Play

The new high power blue laser light source and high temperature resistant ceramic sintering process color wheel ensure that the projector provides you with long-lasting, stable and reliable applications. Supports 7x24 hours of continuous work, can achieve more than 20,000 + hours of long life.

LIFE SPAN

20000+

TO BE PIONEER AND SUPERIOR

Soundking

TA50/T68 Series

Brightness (lm)

5000/6000

Resolution

3840x2160/3840x2160

Screen size (inch)

60-150/80-200

Image Correction

Geometry correction, arc projection photo auto-correction

Smart System

Smart system, wireless cast mass storage

Lens

Ricoh 4K lens, Electric Focusing

Sound

2×15W, Supports Dolby, DTS

P80/P100 Series

Brightness (lm)

10000 (Center brightness 10500)

Resolution

1x0.65" DLP 4K (3840x2160)

Screen size (inch)

80-500

Image Correction

Multipoint correction, optional built-in fusion

Smart System

Smart system, wireless cast

Lens

Ricoh 4K lens, Electric Focusing

Sound

Audio output interface

Other brands

Market mainstream specifications

Brightness (lm)

3500-5000

Resolution

80x800/1920x1080/1920x1200

Screen size (inch)

65-130

Image Correction

Trapezoid Correction, Fast Quadrangle Adjustment, Point Correction

Smart System

Japanese manufacturer has no smart system, Appotronics's component is only used in high-end models

Lens

2K and below resolution, manual focus small amount of electric focus

Sound

No sound or mono 1×10W/16W

APPLICATIONS

Middle and high-end places such as education classrooms, training and education institutions, large and medium-sized meeting rooms, government enterprises, institutions, exhibition halls, etc.
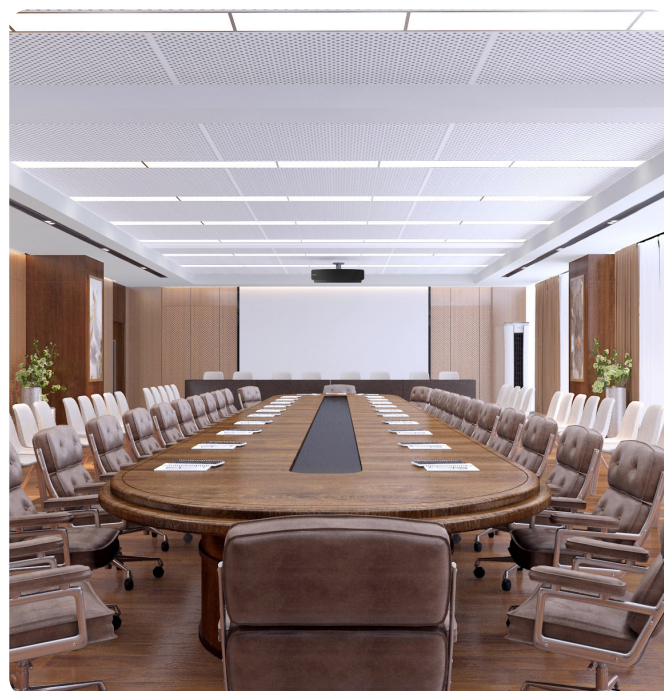

Exhibition

Classroom

Multifunction room

Medium and large conference rooms

SPECIFICATIONS

T68

- Ink surface+ Silver decoration. Ladder shape, beautiful appearance
- Laser light source, 20000+ hours life span, support 7*24 hours constant working
- Full-4K, support HDR, provide UHD picture
- Electric center quick detachable lens, 4K super resolution
- White balance correction, 7 color correction
- Auto+Manual correction, multipoint correction, optional built-in edge fusion
- Standardized high-level 3G+32G proprietary commercial intelligence system
- Wireless cast, screen saver album and many other practical commercial intelligent software
- Advanced audio system, DTS+Dolby certified

General

Model：T68

Screen size：80″-200″

Resolution：3840×2160

Light source：laser

Interface

HDMI: 2way2.0 (1 way to support ARC return)

USB: 2wayUSB3.0

RS232: 1

Coaxial: 1

Optical fiber: 1

DVI: 1

Network interface RJ45: 1

Configuration

Chip: MT9639

RAM: 3G

ROM: 32G

System: Android

Host parameter

Power consumption: 480W

Noise: 37db

Size: 609×400×204 (mm)

Weight:18.5 kg

Image quality

Illumination uniformity: ≥90%

Gamut: 116% (BT.709)

Contrast: 100000：1

MEMC: support

Correction mode：Geometry correction photo auto-correction

HDR: support

Focus mode: Electric Focusing

Speaker

Speaker:built-in 2x15w high-power

SPECIFICATIONS

TA50

Soundking

- Laser light source, 20000+ hours life span, support 7*24 hours constant working
- DLP advanced 4K UHD display chip, provide UHD picture
- 0.25:1 electric focusing UHD resolution lens
- White balance correction, 7 color correction
- Auto+Manual correction function
- Built-in high-level intelligence system
- Wireless cast, screen saver album and many other practical commercial intelligent software
- Advanced audio system (DD+/DTS)

General

Model：TA50

Screen size：60-150"

Resolution：3840×2160

Light source：laser

Interface

HDMI: 2way2.0 (1 way to support ARC return)

USB: 2wayUSB3.0

RS232: 1

Coaxial: 1

Optical fiber: 0

DVI: 1

Network interface RJ45: 1

Configuration

Chip: MT9639

RAM: 3G

ROM: 32G

System: Android

Host parameter

Power consumption: 380W

Noise: 37db

Size: 547×346×158(mm)

Weight: 11kg

Image quality

Illumination uniformity: ≥90%

Gamut: 116%（BT.709）

Contrast: 100000：1

MEMC: support

Correction mode: Geometry correction photo auto-correction

HDR: support

Focus mode: Electric Focusing

Speaker

Speaker:built-in 2x15w high-power

SPECIFICATIONS

Soundking

- Laser light source, 20000+ hours life span, support 7*24 hours constant working
- Full system 4K, support HDR, provide UHD picture
- Hybrid cooling system with liquid + air cooling
- Electric center detachable lens, extra wide lens displacement
- Linear adjustable color temperature, white balance correction, 7 color correction Auto+Manual correction, multipoint correction, optional
- built-in edge fusion Standardized high-level 3G+32G proprietary commercial
- intelligence system Wireless cast, screen saver album and many other practical
- commercial intelligent software

General

Model: P80

Projection technology: 1x0.65" DLP 4K (3840x2160) DMD

Projection brightness: 8500 (center brightness 9000)

Contrast: 3000000:1

Light source: laser; ≥20000 hours

Color: >110% BT.709

Projection lens

Projection ratio: 0.63:1 Short focus/1.4-2.5:1 Standard

Lens zoom ratio: Electric Focus Electric Zoom 1.0x/1.7x

Projection size: 80"~500"

Lens displacement: electric displacement, vertical: ±100%. Level: ±50%

Interface

HDMI: 2 (1 way to support HDMI 2.0 1 support ARC)

HDBaseT: 1 (optional)

DVI input: 1

HDMI output: 1

PC (D-sub) input: 1

USB Type A: 2 (Direct reading)

Audio output: 1

RJ45: 1

RS232 contro linterface (DB 9-pin):2 (1 group input 1 group output)

Host parameter

Voltage: 100~240V@ 50/60Hz

Power consumption: 900W<0.5W (standby mode)

Noise: standard mode: 40dB

Correction: manual Geometry correction + photo Auto-Geometry correction multipoint correction optional arccorrection, optional built-in fusion

Size: 566x572x203mm (exclude lens)

Weight: 32kg

Configuration

Chip: MT9639

RAM: 3G

ROM: 32G

Wireless: dual-band Wi-Fi x 2, support wireless hot spot

Bluetooth: Bluetooth 5.0

System: Android P

UI: Exclusive commercial customized systemno startup advertising

Pre-APP: Gathering meetings/Hi projection/screen saver albums/VIDDA assistants

Image quality

Edge fusion: support

Color correction: White balance correction, RGBCYM skin color 7 color correction

Light source brightness adjustmen: bright, standard, soft, high dynamic, low dynamic, linear brightness adjustable

HDR: HDR 10/HLG

Wireless cast: NFC/casting/Hi projection/ Miracast/DLNA/Samba

MEMC: support

SPECIFICATIONS

P100

Soundking

- Laser light source, 20000+ hours life span, support 7*24 hours constant working
- Full system 4K, support HDR, provide UHD picture
- Hybrid cooling system with liquid + air cooling
- Electric center detachable lens, extra wide lens displacement
- Linear adjustable color temperature, white balance correction, 7 color correction
- Auto+Manual correction, multipoint correction, optional built-in edge fusion
- Standardized high-level 3G+32G proprietary commercial intelligence system
- Wireless cast, screen saver album and many other practical commercial intelligent software

General

Model：P100

Projection technology：1x0.65" DLP 4K (3840x2160) DMD

Projection brightness：10000(center brightness 10500)

Contrast：3000000:1

Light source：laser; ≥20000 hours

Color: >110% BT.709

Projection lens

Projection ratio：0.63:1 Short focus/1.4-2.5:1 Standard

Lens zoom ratio: Electric Focus Electric Zoom 1.0x/1.7x

Projection size：80"~500"

Lens displacement：electric displacement vertical: ±100%. Level: ±50%albums/VIDDA assistants

Interface

HDMI： 2 (1 way to support HDMI 2.0 1 support ARC)

HDBaseT: 1 (optional)

DVI input: 1

HDMI output:1

PC (D-sub) input: 1

USB Type A: 2(Direct reading)

Audio output: 1

RJ45: 1

RS232 contro linterface (DB 9-pin):2 (1 group input 1 group output)

Host parameter

Voltage: 100~240V@50/60Hz

Power consumption：900W<0.5W (standby mode)

Noise: standard mode: 40dB

Correction: manual Geometry correction + photo Auto-Geometry correction multipoint correction optional arccorrection, optional built-in fusion

Size: 566x572x203mm (exclude lens)

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Configuration

Chip: MT9639

RAM: 3G

ROM:32G

Wireless: dual-band Wi-Fi x 2, support wireless hot spot

Bluetooth:Bluetooth 5.0

System: Android P

UI: Exclusive commercial customized systemno startup advertising

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Image quality

Edge fusion: support

Color correction: White balance correction, RGBCYM skin color 7 color correction

Light source brightness adjustmen: bright, standard, soft, high dynamic, low dynamic, linear brightness adjustable

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Wireless cast：NFC/casting/Hi projection/ Miracast/DLNA/Samba

MEMC: support