X96Q Allwinner H313 Quad Core Android 10.0 DDR3 2GB RAM eMMC 16GB ROM 4K TV Box - AU Plug

Product comparison

Chip Parameter	H313	RK3229/RK3228A	H3	S905W
CPU	Quad Core Cortex-A53	Quad Core Cortex-A7	Quad Core Cortex-A7	Quad Core Cortex-A53
CPU	Mali G31　　　OpenGL ES 1.0/2.0/3.2	Mali 400　　OpenGL ES 1.0/2.0	Mali 400 OpenGL 2.0	Mali 400 OpenGL ES 2.0
H.265 decoding	4K@60fps	4K@30fps	4K@30fps	4K@30fps
OS	Android 10	Android 7.1	Android 9.0	Android 7.1
Frequancy	1.35GHz	1.0GHz	1.0GHz	1.2GHz
Run Score　*	42417	15503	19165	17193

* The Run Score data is only from a single test done by a profecional

Android 10

First to support Google's new system Android 10, and greatly optimized for the system, can support a minimum of 1GB of memory

feature \ IOS	Android 10
Fluency	The system natively supports Vulkan 3D technology. Android 10 UI preferentially uses Vulkan for drawing, which has a higher efficiency and lower load.
Safety	File encryption technology based on Google Adiantum algorithm, enable by default to avoid data leakage caused by Flash
Stability	Smarter background memory management technology (LMKD-PSI), small memory application, faster killing process, foreground process is less affected by background process
Running Speed	Virtual machine code optimization to improve execution efficiency.
Memory space	New dynamic partitioning technology, flexible allocation of Flash partitions, saving storage space

Android 10 · Android 9.0 · Android 8.1 · Android 7.1

Fluency · Safety · Stability · Running speed · Memory space

* Data analysis chart is for reference only
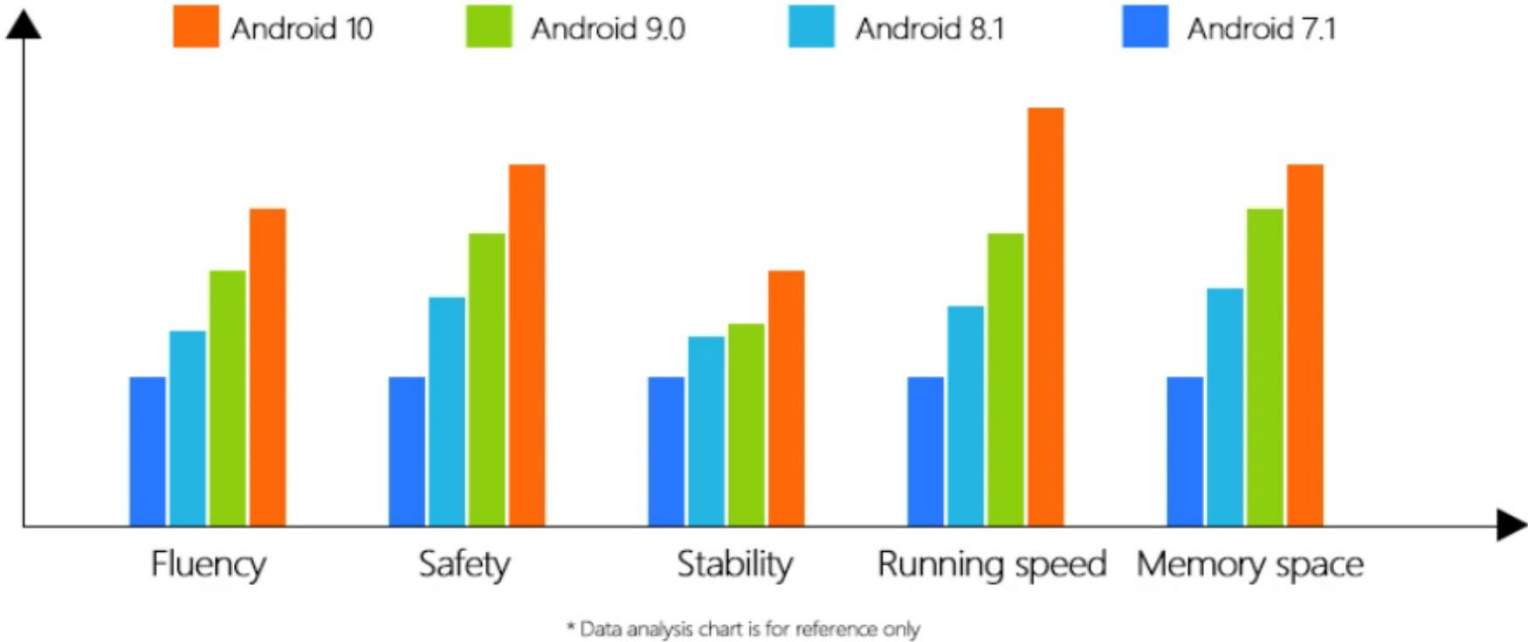
GPU low power consumption, high performance density, no pressure to play games

GPU: supports Vulkan, support OPENGL ES3.2

Mali-G31: Exceptional User Experience in the Smallest Area
Brining the Bifrost architecture to Ultra Efficient device.

20% Smaller	20%	12%
total area	Better performance density	Better UI performance

Android 10, new dynamic partitioning performance technology, more user storage space

You can choose and install different applications according to your personal preference to meet your drivers needs.
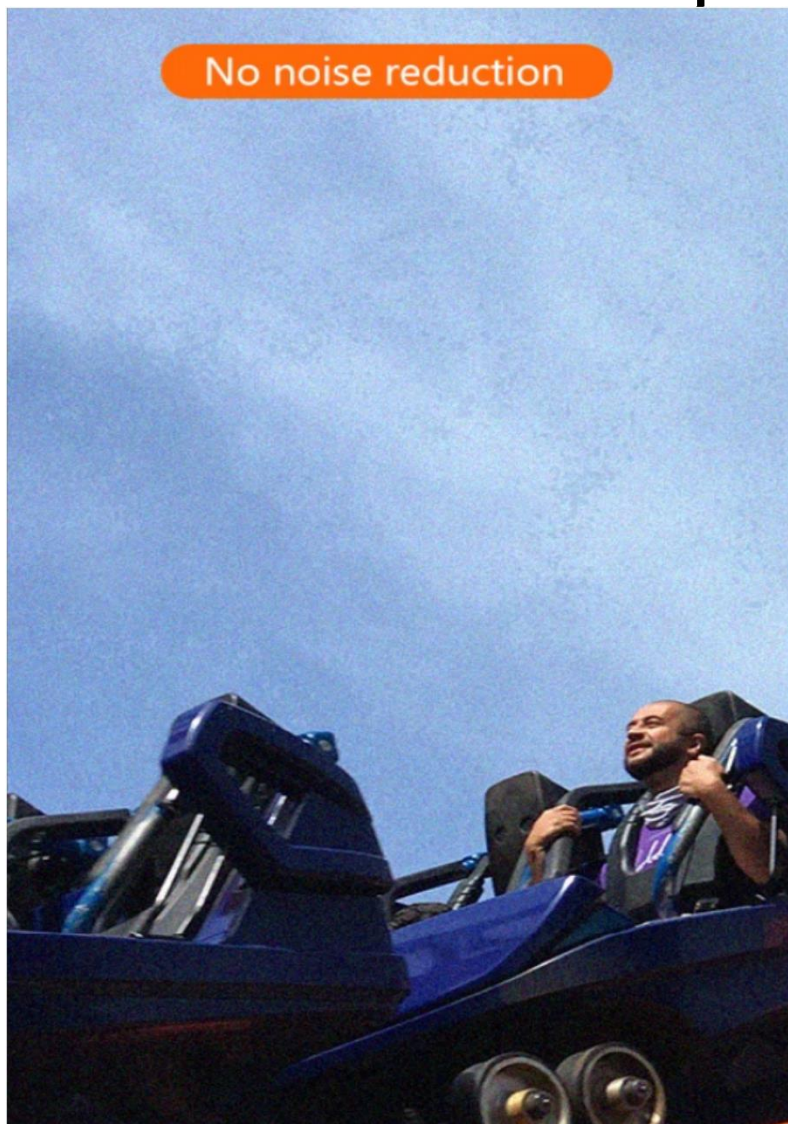
- Faster & Safer response
- Save 20% RAM in Space
- More stable with applications

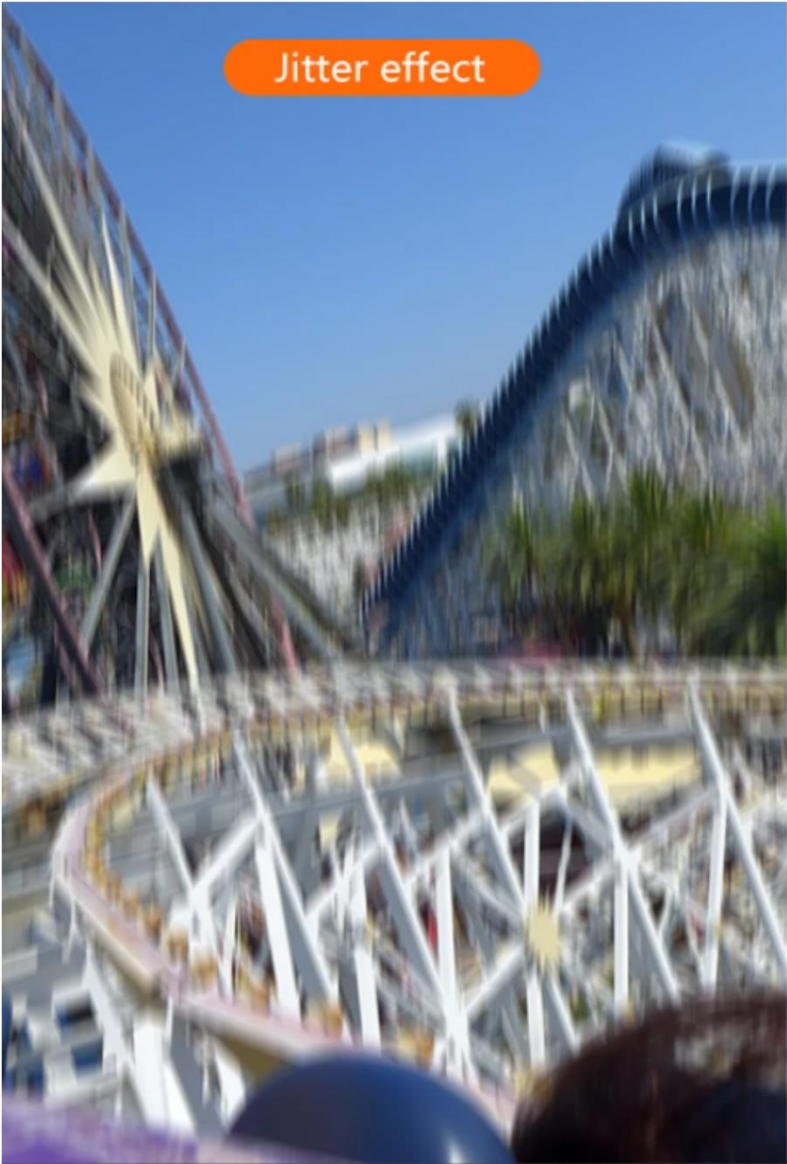# 3D noise reduction, more thorough image, more delicate and pure picture

No noise reduction

Noise reduction

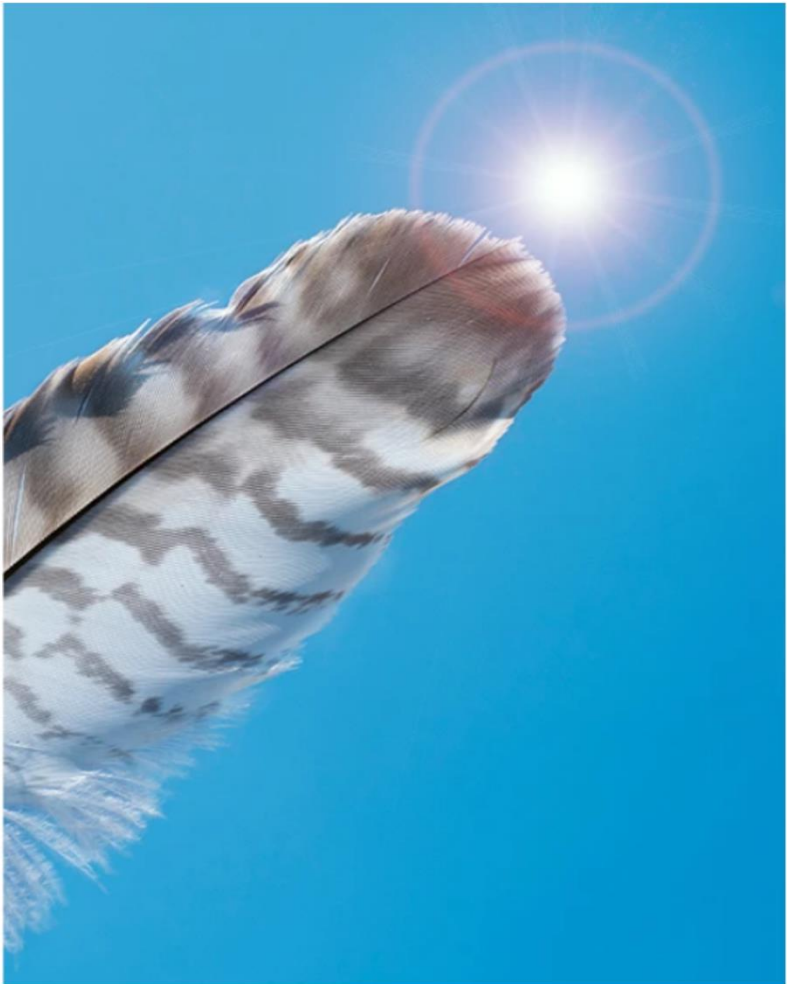# Debounce, more stable image and smoother viewing

Jitter effect

Elimination jitter effect

HDR to SDR

SmartColor ᵀᴹ optimized HDR dynamic cure for better HDR video experience

Other models: Dark sky background

Our models: Clear sky background

Clear is not enough, we need to be clearer

The new-generation SmartColor ™ 3.1 image quality engine and 14 image quality improvement algorithms bring consumers the best large screen experience. It can achieve 4K / 60fps video, keystone correction, and does not occupy any CPU / GPU resources

Clear

Clearer

Airplay

DLNA

Miracast

ENJOY BIG SCREEN
SUPPORT DLNA, MIRACAST, AIRPLAY
You can play games and watch movies on the big screen

Suitable for various TV's

With AV interface & HDMI interface, Supports a variety of LCD TV's and older TV's
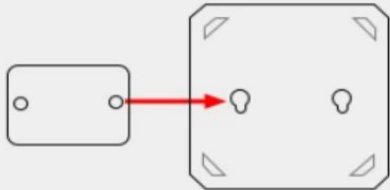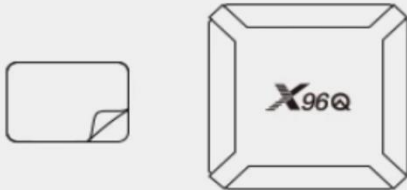

LCD TV

OTT TV BOX

Old TV

Hang the wall mount on the back of the device

Paste the device on the wall or the back of the TV

Provide wire and wireless networks

Support WiFi and network cable connection, and support USB local playback, convenient and easy to use

WiFi and network cable transmission signal is stable

Supports the transmission and download of high-definition videos and big data files. Line installation application.
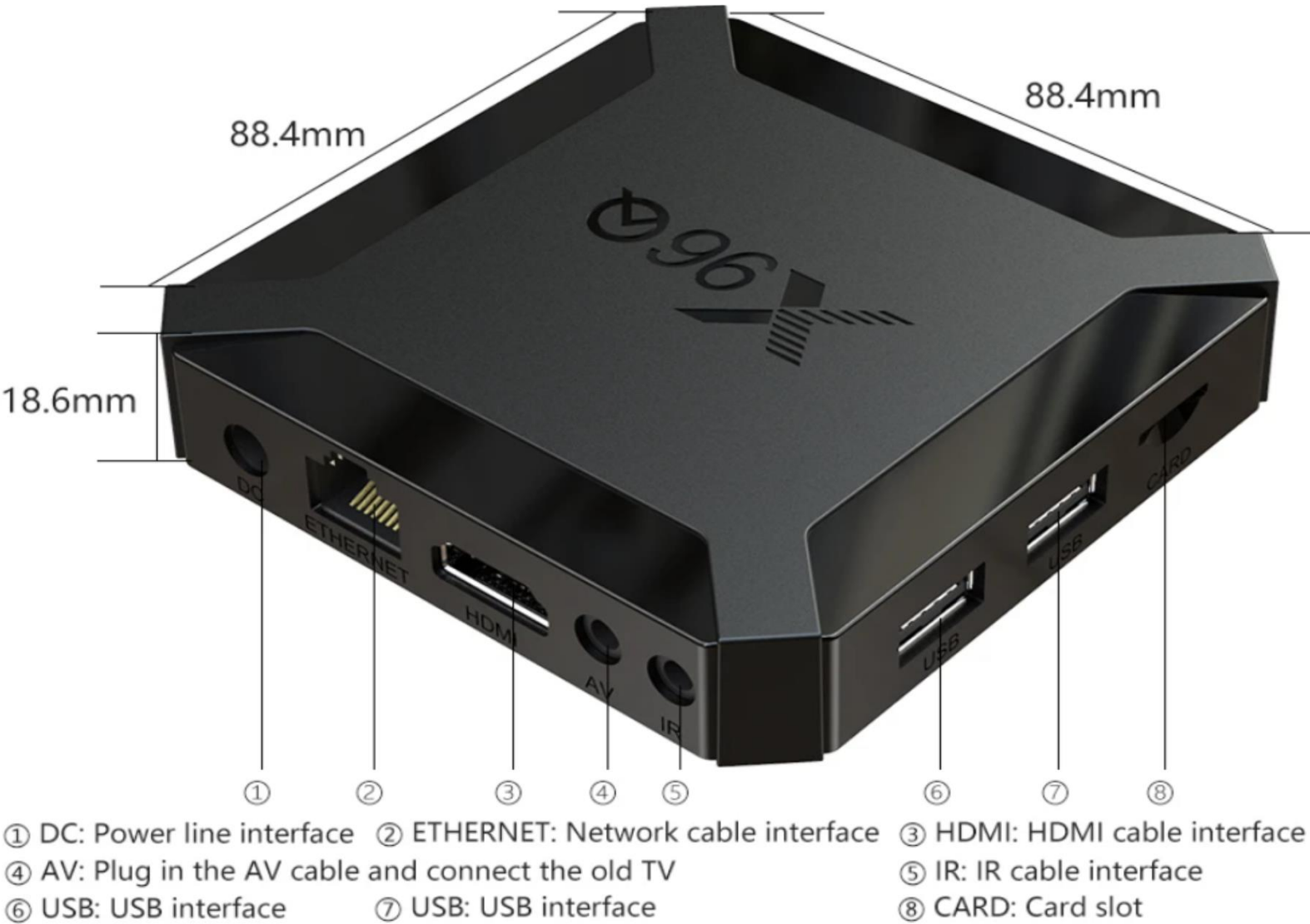
USB supports local playback and installation of applications

Connect a mobile hard disk or a USB flash drive to play local movies, and install applications such as games and videos.

Rich interface, simple connection

Small interface, big effect, can meet various entertainment needs

88.4mm

88.4mm

18.6mm

① DC: Power line interface ② ETHERNET: Network cable interface ③ HDMI: HDMI cable interface
④ AV: Plug in the AV cable and connect the old TV ⑤ IR: IR cable interface
⑥ USB: USB interface ⑦ USB: USB interface ⑧ CARD: Card slot

Package contents

Device

Remote Control
(Battery not Included)

Power Supply Wall Hanging HD data cable IR cable User Manual

Features:

CPU: Allwinner H313 Quad Core ARM Cortex A53

GPU: G31 OPenGL ES3.2

System: Android 10.0

RAM: DDR3 2GB

ROM: eMMC 16GB

Wifi : IEEE 802.11 b/g/n

HD: 4K*2K UHD Output, HD 2.0A

HEVC H.265 VP9

H.265 and VP9 hardware decoding can save 50 percent bandwidth resources, let you watch the 4K movie smoothly.
Every detail of the screen is lucidity

Specification:

CPU	Allwinner H313 Quad Core ARM Cortex A53	
GPU	G31 OPenGL ES3.2	
Memory	DDR3: 2GB	
Flash	eMMC: 16GB	
WiFi	IEEE 802.11 b/g/n	
Moudle	Plastic: Black Color	
I/O	1 x HDMI	4K*2K UHD Output, HDMI 2.0A
	1 x AV OUT	480i/576i standard definition output
	2 x USB	1 x USB Host Port , 1*USB Device
	1 x IR Reciver	Remote Reciver Connect
	1 x RJ45	Ethernet Interface
	1 x TF CARD	Support 4/8/16/32/64 GB(Not included)
Power	DC 5V/2A; LED indicator, Working: Blue; Standby: Red	

Software:

OS	Android 10.0
Video	Supports video decoding up to 4K@60fps
	Supports multi-formats:
	H.265 Main10@L5.1 up to 4K@60fps
	VP9 Profile 2 up to 4K@30fps
	AVS2 JiZhun 10bit Profile up to 4K@30fps
	H.264 BP/MP/HP@L4.2 up to 4K@30fps
	H.263 BP up to 1080p@60fps
	MPEG-4 SP/ASP@L5 up to 1080p@60fps
	MPEG-2 MP/HL up to 1080p@60fps
	MPEG-1 MP/HL up to 1080p@60fps
	Xvid up to 1080p@60fps
	Sorenson Spark up to 1080p@60fps
	VP8 up to 1080p@60fps
	AVS/AVS+ JiZhun Profile up to 1080p@60fps
	WMV9/VC1 SP/MP/AP up to 1080p@60fps
	JPEG HFIF file format up to 45MPPS
	H.264 BP/MP/HP
	H.264 supports I/P frame, and only supports single reference frame
	MJPEG/JPEG baseline
	Maximum 16-megapixel(4096 x 4096) resolution for H.264 encoding
	H.264 encoding capability: 1080p@60fps
	JPEG snap performance of 1080p@60fps independently
	Supports the constant bit rate(CBR)ariable bit rate(VBR) bit rate control mode, ranging from 256kbit/s to
	100Mbit/s
	Encoding of eight regions of interest(ROIs)
Audio	Supports MP3, AAC, WMA, RM, FLAC, Ogg
	Built-in serial digital audio SPDIF/IEC958 input/output and PCM input/output
	Two DAC channels
	1 audio output interface (differential LINEOUTP/N or single-end LINEOUTL/LINEOUTR)
	One Audio HUB, supporting internal mixing function
	Embedded 3 I2S/PCM (I2S0 for extended audio codec, I2S2 for BT, I2S3 for digital power amplifier)
	Supports Left-justified, Right-justified, Standard I2S mode, PCM mode, and TDM mode
	I2S mode supports 8 channels, and 32-bit/192kbit sample rate
	I2S and TDM modes support maximum 16 channels, and 32-bit/96kbit sample rate
	One OWA OUT interface, supporting 16-/20-/24-bit inputs and outputs
	Integrated digital microphone(DMIC), supporting maximum 8 digital PDM microphones

Image	HD JPEG, BMP, GIF, PNG, TIF
Language	English French German Spanish Italian etc multilateral languages

Appliactions

Online	Browse all video websites, support Netflix, Hulu, Flixster, Youtube, etc
Apps	Apps download freely from android market, amazon app etc
Medium	Local Media playback, Support HDD, U Disck, TF Card
Others	Support Email, office suit etc.
	Support DLNA function
	Support 2.4G wireless mouse/keyboard

Package Included:

1 x X96Q TV Box

1 x Remote Control(battery not included)

1 x Wall Hanging

1 x HD Data Cable

1 x IR Cable

1 x Power Supply

1 x User Manual