

Wireless Presentation Gateway & HD Media Player Quick Installation Guide

Ver 1.2

Thanks for choosing the Wireless Presentation Gateway & HD Media Player

With this ultimate HDMI WiFi HD Wireless Presentation Gateway users can easily present/mirror/push HD video, photo, game and files from the following small screen devices to HDTV or projector/display/monitor/signage wirelessly, or playback media files from USB storage(USB flash drive, USB HDD dock, portable USB drive):

- ✓ Windows PC/Laptop/Phone: Miracast/WiDi/DLNA/MirrorOP/AirParrot/AirPin;
- ✓ Android phones/tablet PCs: Miracast/DLNA/MirrorOP/AirPin;
- ✓ iPad/iPhone: AirPlay/DLNA/AirParrot/MirrorOP/AirPin;
- ✓ Mac PC/Macbook: AirPlay/MirrorOP/AirParrot;
- ✓ Chromebook: AirParrot

The built-in dualband WiFi module supports 2.4GHz + 5GHz to avoid radio interference for better and more stable wireless display performance. The RJ45 Ethernet port is also available for a cabled LAN for most stable connection.

The Wireless Presentation Gateway comes with versatile A/V output interface including HDMI, VGA, CVBS, and SPDIF. No matter new or existing TV or Projector/monitor/display/signage, it just works.

This is the universal Quick Installation Guide (QIG) for Visonicom Wireless Presentation Gateway to show the basic operations for Android, iOS and Window users.

For more legible Quick Installation Guide, please refer to our online version:

<http://wirelesspresentation.cn/manual/Wireless-Presentation-Gateway-quick-installation-guide.pdf>

Users are always invited to visit our portfolio site <http://wirelesspresentation.cn> for more product info, demo, upgrading.

According to firmware upgrading and difference in OEM/ODM versions, also different versions of your personal device, there may be different appearance in UI to what illustrated here, however, the operation is similar and the QIG is still of help.

Notes:

1. Trademarks are the properties of their respective owners.
2. Miracast is native with Android 4.2/Windows 8.1 and above. For Miracast, user no need to install 3rd party APP/software.
3. AirPlay is native with iOS and Mac OS. For AirPlay mirroring/pushing, user no need to install 3rd party APP
4. AirPin, Airfun, and Kodi/XBMC are free to use, they can be alternative when you're not satisfied with Miracast, AirPlay, WiDi, or your device doesn't support them.
5. WiDi for Windows please check with Microsoft/Intel for hardware capability

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1. Profile

1.1 Wireless Presentation Gateway As a Super Screen Mirroring Box

Wireless Presentation Gateway is the latest universal dualband(2.4GHz+5GHz) 300Mbps superior WiFi display box that supports most WiFi display standards such as Miracast, AirPlay, WiDi, DLNA, AirParrot, MirrorOP and AirPin for 1080P HD video WiFi screen mirroring and pushing.

It support:

- ✓ **Miracast:** For Andorid 4.2+, Windows 8.1+ with capable hardware;
- ✓ **AirPlay:** For iOS6 and Mac OS
- ✓ **DLNA:** For Andorid 4.0+, iOS6.0+, Windows 7+, with DLNA enabled APP/Software such as AirFun, BubbleUPnP, Kodi(XBMC), etc;
- ✓ **WiDi:** For WiDi-capable Windows PC;
- ✓ **MirrorOP:** For Android, iOS, Windows, Mac, as an alternation for Miracast, AirPlay, WiDi
- ✓ **AirParrot:** For Mac OS, Windows, Chrome OS, as an alternation for Miracast, AirPlay, WiDi
- ✓ **AirPin:** For Windows, Android, iOS, as an alternation for Miracast, AirPlay, WiDi

1.2 Wireless Presentation Gateway As a Super HD Media Player

Wireless Presentation Gateway is also an advanced HD media player that supports playback all most all media files of various video and audio formats with different codec, including MKV, TS, M2TS, TP, TRP, AVI, WMV, MPEG, MPG, MP4, VOB, MOV, ISO, DAT, ASF; FLV, H.264(AVC HD), VC-1(WMV-HD), MPEG-2 HD, MPEG-1, MPEG-4, XVID etc

2. Features

2.1 Product Features as a WiFi Presentation Gateway

- Cross Platforms support: iOS, Android, Windows, Mac, and Chrome
- Most mirroring standards support: Miracast, AirPlay, DLNA, WiDi, AirParrot, MirrorOP, AirPin
- 2.4GHz+5GHz dualband 300Mbps
- Simple to operate
- H.264 1080P full HD video decode with hardware decoder
- Less than 80ms latency
- Large RAM and ROM for low latency and fast connection
- Build in WiFi support IEEE 801.11 a/b/g/n up to 300Mbps data transfer rate with WiFi Direct capability, strong anti-jamming capability
- Most compact size and lower consumption
- LPCM audio decode
- HDMI v1.3 video output
- HDCP 2.x
- Auto channel selection with high quality video stream
- Flexible power using TV standard USB port (need to support up to 2000mA) or external USB power supply

2.2. Product Features as a HD Media Player

- Play all media files locally from USB storage...
- HD Media Player, Digital Audio Jukebox, Digital Photo Album...All in One Solution

- Most User-friendly, Cost-effective, and All-around Winner...
- Universal Video Files Support: MKV, TS, M2TS, TP, TRP, AVI, WMV, RM, RMVB, MPEG, MPG, MP4, VOB, MOV, ISO, DAT, ASF; FLV, H.264(AVC HD), VC-1(WMV-HD), MPEG-2 HD, MPEG-1, MPEG-4, XVID etc
- High Resolution Video Output: high-definition video up to 1080p, Full HDTV standard. Video output resolution includes 480i (composite interface), or 480p, 576p, 720i, 720p, 1080i, and 1080p (HDMI interface)
- Full remote control
- Support U-HDD, USB, SD/MMC/MS, external hdd
- Support DTS, DTS-HD, DOLBY, DOLBY HD, AC3
- HDMI 1.3, support 1920*1080p full HD output;
- Support multilingual OSD and subtitle
- Stereo or multi-channel digital surround audio output
- Support dual digital audios output by SPDIF or Coaxial
- Support Audio format: MP3, WMA, AAC, WAV, OGG, FLAC, Real audio, Ape
- Support photo format: JPEG, BMP, GIF, PNG, TIFF, support Maximum definition 8000*8000 photos;
- Composite interface (RCA, yellow/white/red) for analog AV connection
- Support USB connecting with PC to copy files from hard drive directly.
- Plug-n-Play USB 2.0 Support

3. Physical Connection

The connection is simple.

Standard Connections:

Connect the Wireless Presentation Gateway with your HDTV or projector or target big screen with the HDMI cable accompanied for HD video playback or screen mirroring.

Connect the Wireless Presentation Gateway with the USB charger with the USB cable accompanied (USB type A - Micro USB) for power supply.

Optional Connections:

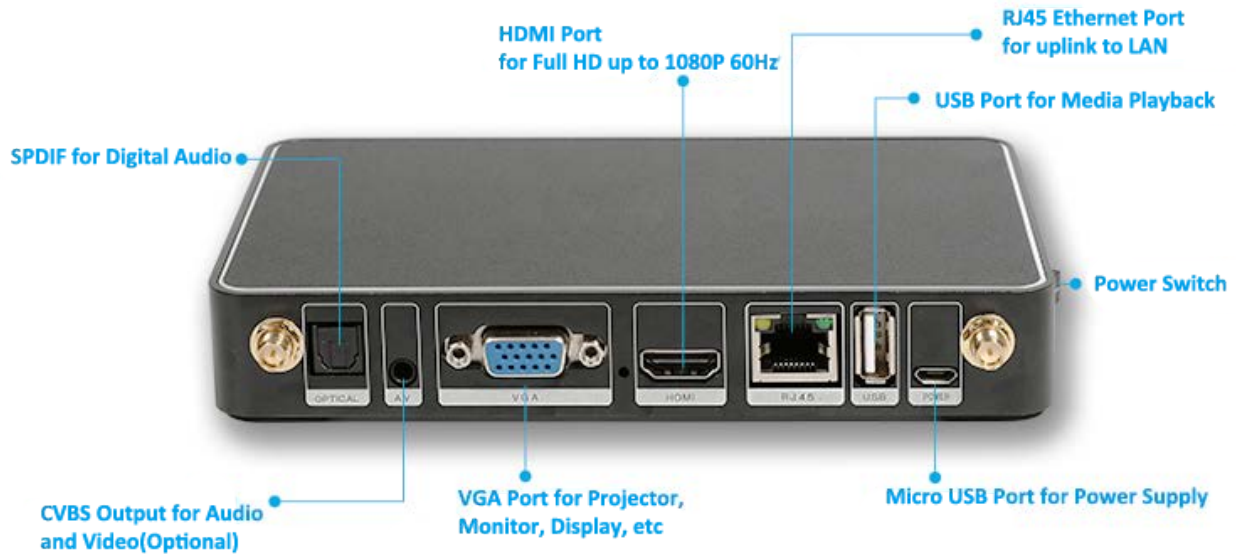
Connect Wireless Presentation Gateway with USB storage (USB flash drive, USB HDD dock, portable USB drive),

Connect the Wireless Presentation Gateway with a projector or monitor with VGA for video display or mirroring in case HDMI connection not applicable,

Connect the Wireless Presentation Gateway RJ45 port with existing router LAN port with a UTP cable,

Connect the Wireless Presentation Gateway with an A/V system that without HDMI input, with CVBS cable for composite video output and analog audio

Connect the Wireless Presentation Gateway SPDIF port with a digital audio system for digital audio output

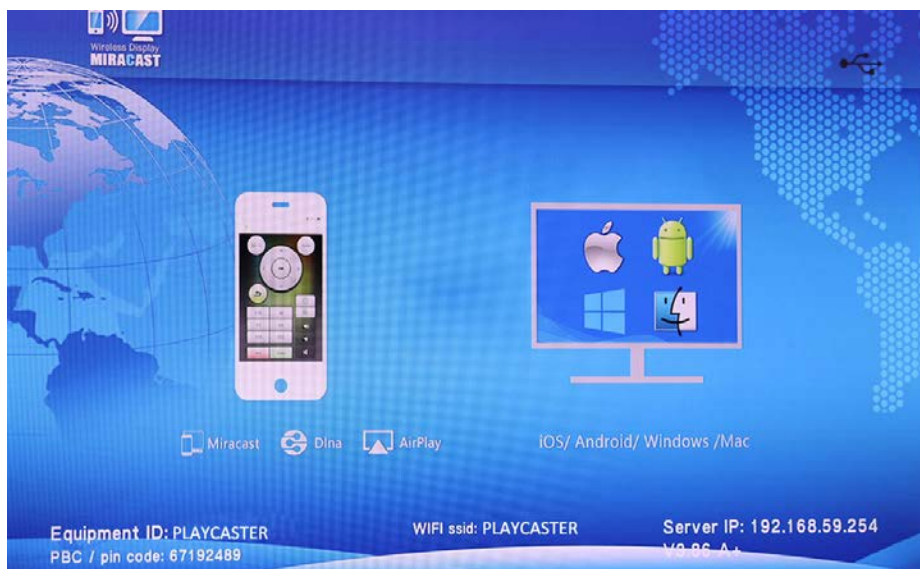


4. WiFi Connection

Though for Miracast there's no need for the WiFi display box to get online, to have it connected within existing WLAN is necessary for screen pushing(DLNA) and for firmware online upgrading. Please follow the steps below.

4.1 System Boot Up

Turn on the Wireless Presentation Gateway, system boots up and shows basic configuration info as below.



From the screen we can get the following info:

The product SSID is *PLAYCASTER*

The PBC/pin code (For Miracast and WiDi in Windows. For Android system, user can ignore the code)

The IP address of the Wireless Presentation Gateway is *192.168.59.254*

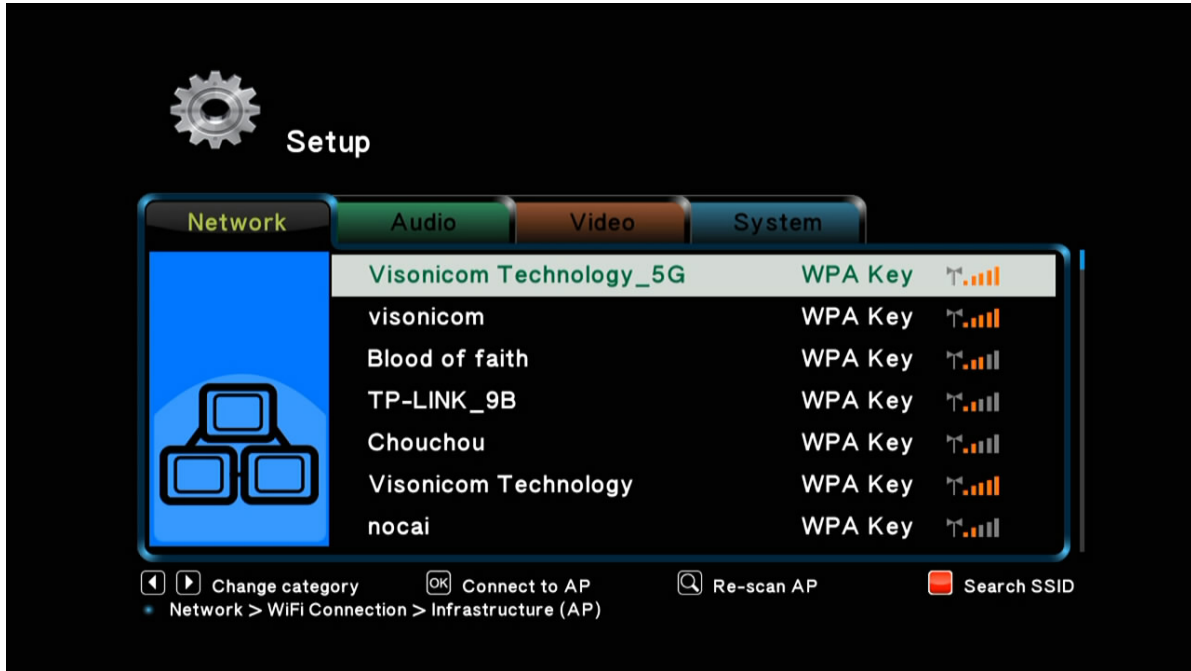
The Wireless Presentation Gateway is now ready for media file playback or screen mirroring.

4.2 Connect Wireless Presentation Gateway with WiFi

There are 2 ways to connect Wireless Presentation Gateway with WiFi

A. With the remote controller (Recommended).

Select [Setup]>[Network]>[WiFi Connection], system will scan the WiFi signal, select the right AP/router and input password, done.



B. With PC or mobile phone

Have your PC or mobile device connect the Wireless Presentation Gateway RealCast PTV dongle through WiFi(PLAYCASTER).

Type the IP address 192.168.59.254 in browser (or run Airfun) of your phone or PC, go to the tab of [WiFi Connection], and connect to existing wireless router.

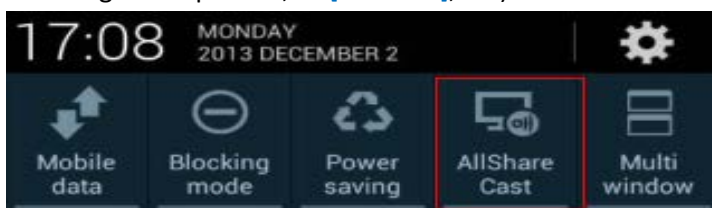
5. Wireless Presentation Gateway for Mirroring/Casting/Pushing

5.1 Miracast and WiDi

5.1.1 Miracast in Android

Enable [WiFi] of your Android smart phone or tablet PC

Enable [WiFi Display] (Or similar options, such as [AllShare], [Screen Mirroring] or [Screen Casting] for Samsung smart phones, or [Miracast], etc)

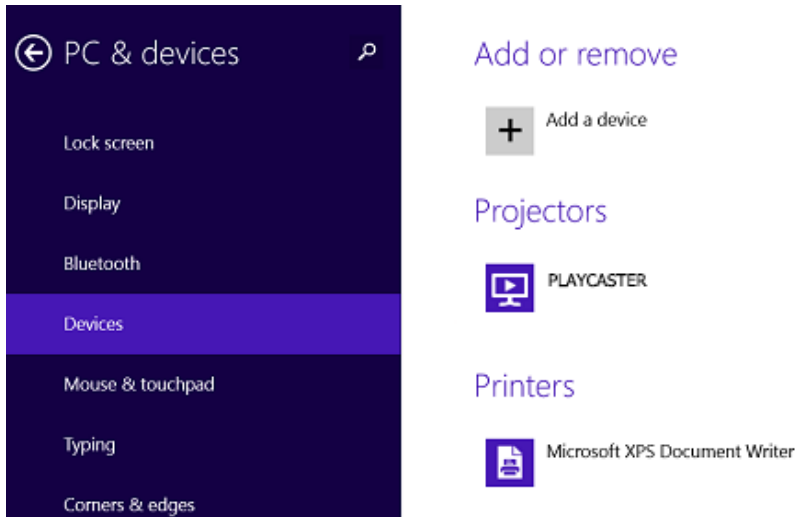


Select PLAYCASTER and connect. In seconds, screen mirroring done and you can see your Android screen on TV already.

5.1.2 Miracast in Windows 8.1

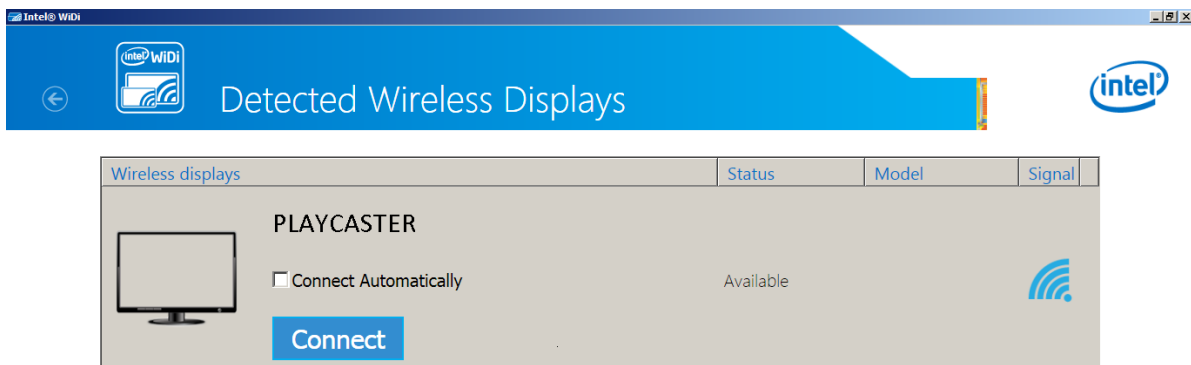
Select [settings] -> [Change PC Settings] -> [PC & Devices] -> [Devices] -> [Add a Device] Click/tap **PLAYCASTER**, Enter PIN Code (as shown on your TV screen) if necessary. Done.

We have found out Miracast cannot run perfectly in some Windows 8.1 OS due to hardware cannot meet the requirement of Miracast. For Miracast support info please refer to the requirement here: <http://www.intel.com/support/graphics/sb/CS-034563.htm>.



5.1.3 WiDi

Run WiDi (3.5 or greater version) of your PC within the same WLAN, It will scan the WiDi compatible device, Select **PLAYCASTER** and click [Connect] (For some versions there may be requested to input PIN code, type the PIN code as seen on your TV screen, Click [Continue]). Wait for seconds you'll see your PC screen on TV already.



5.2 AirPlay Mirroring

On iOS screen, Go [Settings], enable [WiFi] , select **PLAYCASTER** and get connected
 Run [Airplay], Select **PLAYCASTER** (at the same time slide [Mirroring], and screen mirroring done.

5.3 DLNA Push

a.) Run any DLNA enabled APP, such as BubbleUPnP, Kodi, etc, enable DLNA and select **PLAYCASTER**. Done. If you don't have DLNA enabled APP installed,



or not sure whether your player is DLNA enabled, you can use AirFun APP.

b.) Download AirFun from Google Play Store or Apple APP Store and install, or from our Wireless Presentation Gateway RealCast PTV (Optional, type the IP address of the Wireless Presentation Gateway , Tap [Download])

Run Airfun, Select *PLAYCASTER*, DLNA connection done. Then you can run Airfun to push local media files to the Wireless Presentation Gateway .

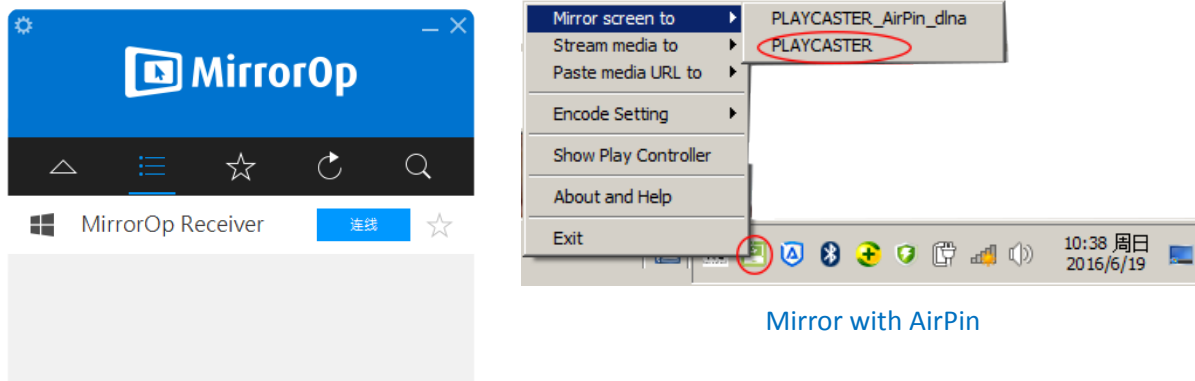
5.4. More Screen Mirroring/Pushing Alternatives

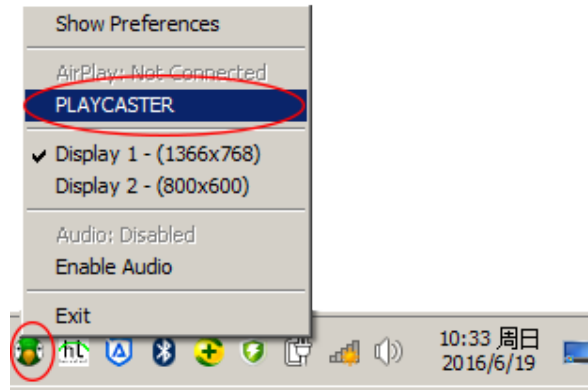
Besides Miracast, AirPlay, WiDi and DLNA, Wireless Presentation Gateway also support AirPin, MirrorOP, and AirParrot for alternation. e.g. A Windows user may use the freeware AirPin to mirror/pushing the screen when his PC doesn't support Miracast or WiDi.

The screen mirroring/pushing standard support for Wireless Presentation Gateway VRD-PTV310 is as shown as below.

OS	Working Mode	Standard/Protocol Support
Android	Presentation/Mirroring	Miracast, AirPin, MirrorOP
	Pushing	AirPin, Airfun, Kodi, etc
iOS	Presentation/Mirroring	AirPlay, AirPin, MirrorOP
	Pushing	AirPlay, AirPin, Airfun
Windows	Presentation/Mirroring	WiDi/Miracast, AirPin, MirrorOP, AirParrot
	Pushing	AirPin, Airfun, Kodi
Mac OS	Presentation/Mirroring	AirPlay, AirParrot, MirrorOP
	Pushing	AirPlay, Kodi
Chrome OS	Presentation/Mirroring	AirParrot
	Pushing	NA

The operation of screen mirroring/pushing with AirPin, MirrorOP and AirParrot is very intuitive and extremely simple.





Mirror with MirrorOP

Mirror with AirParrot

Official download links for AirPin, MirrorOP, AirParrot:

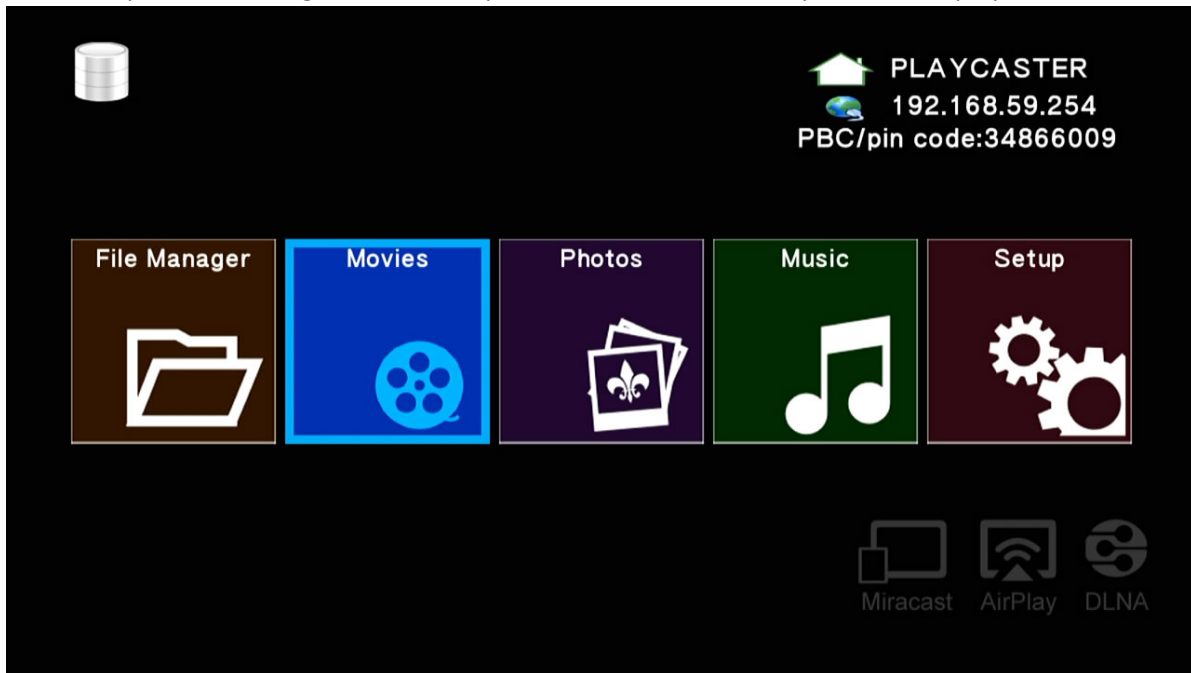
AirPin: <http://www.waxrain.com>

MirrorOP: <http://www.mirrorop.com>

AirParrot: <http://www.airsquirrels.com/airparrot/>

6. Wireless Presentation Gateway as HD Media Player

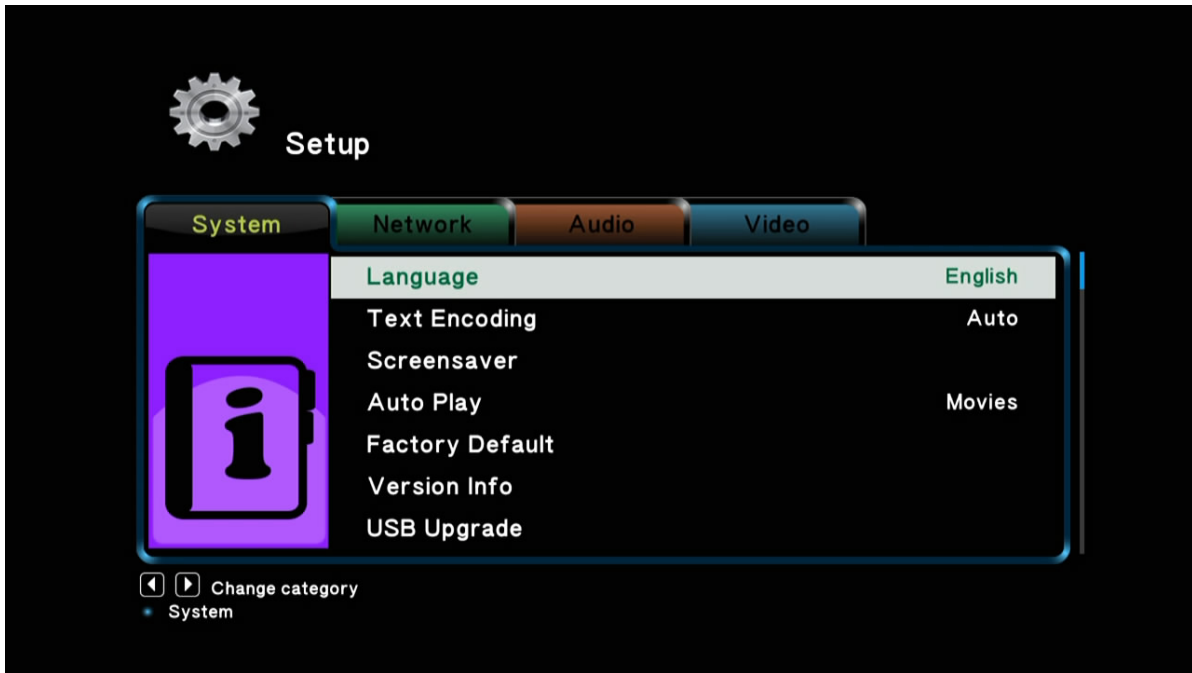
Use the remote controller, select [Movies] to play video files, or select [Photo] to show pictures, or select [Music] to play music files. The Wireless Presentation Gateway will browse the video or picture or music files from your USB storage automatically. Select the video file and press [OK] to play.



7. More Configurations

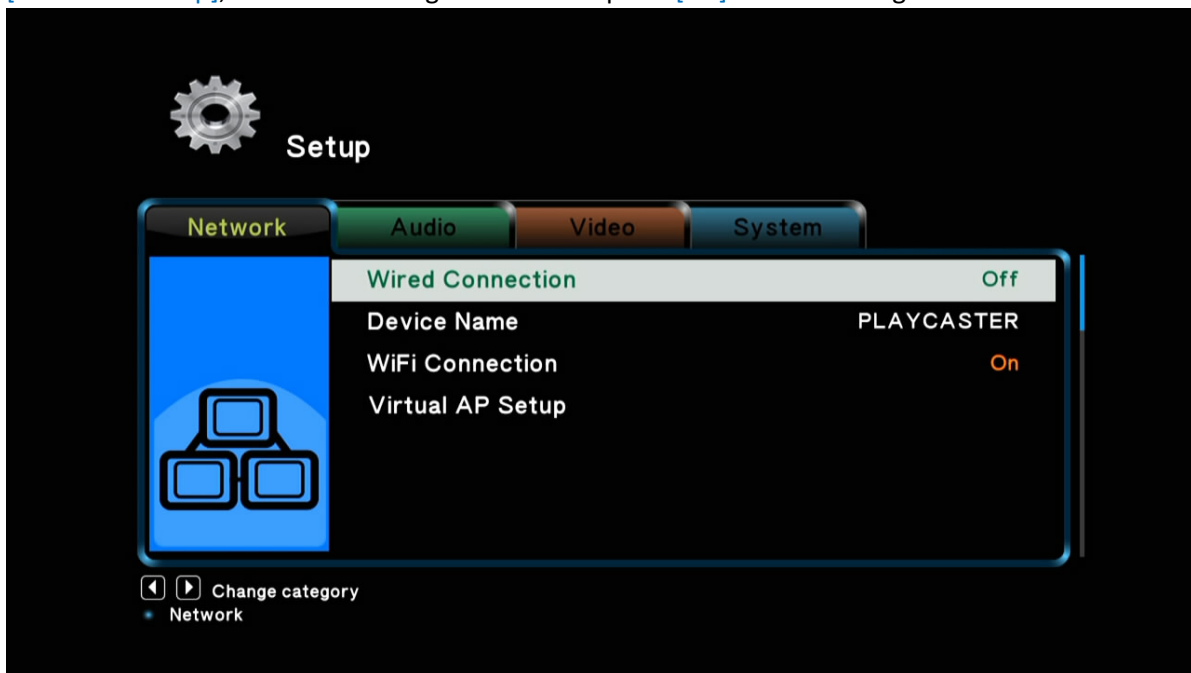
Use the remote control for more configuration.

Select [Setup] from the boot up UI and press [OK], there are submenus of [System], [Network], [Audio], and [Video], for configuration about System, Network, Audio Output, Video output options respectively.

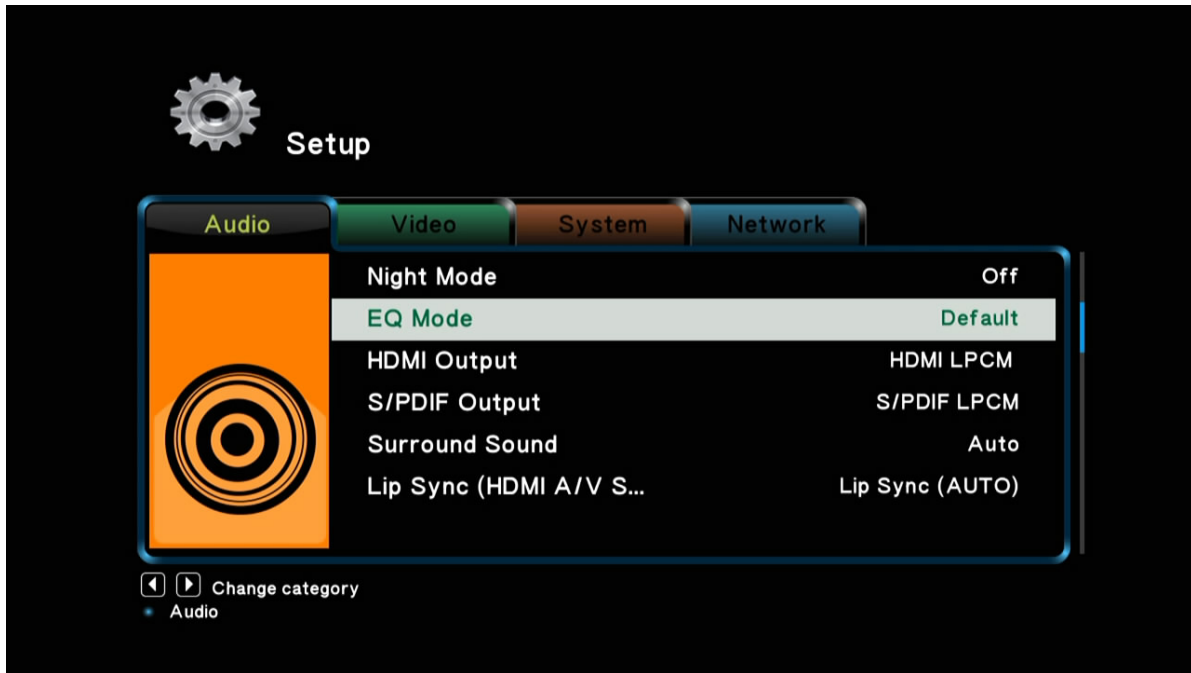


[System] - System settings includes [Language], [Text Encoding], [Screensaver], [Auto Play], [Factory Default], [Version Info], [USB Upgrade], [Online Upgrade], [Timing], [Options]etc. Select the right choice and press [OK] to save settings.

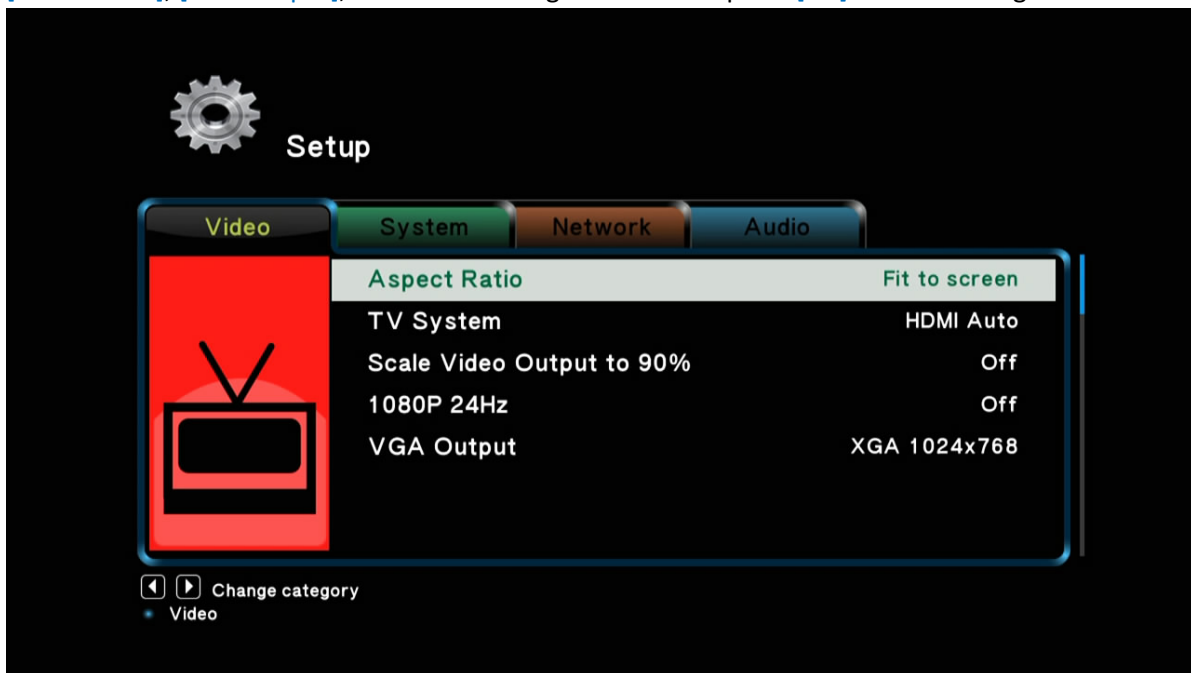
[Network] - Network settings includes [Wired Connection], [Device Name], [WiFi Connection], and [Virtual AP Setup], etc. Select the right choice and press [OK] to save settings.



[Audio]- Audio Output options includes [Night Mode], [EQ Mode], [HDMI Output], [SPDIF Output], [Surround Sound], [Lip Sync], etc. Select the right choice and press [OK] to save settings.



[Video] - Video output options includes **[Aspect Ratio]**, **[TV System]**, **[Scale Video Output to 90%]**, **[1080P 24Hz]**, **[VGA Output]**, etc. Select the right choice and press **[OK]** to save settings.



All the configuration can be done with the mobile phone/PC as well.

8.Specifications:

8.1 Specification as WiFi Presentation Gateway:

General	
Operating system	Linux
Language	English, Chinese,...Multilingual supported
Transmission Distance	Up to 30M to playback music, photo files, Up to 20M to mirror video files.

Network	WiFi 802.11 a/b/g/n, 2.4GHz/5GHz 300Mbps RJ45 10/100M Ethernet Port*1
Power Supply	DC 5V/2000mA
Physical Interface	
AV Output	HDMI1.3, CVBS, VGA, SPDIF
USB	1*Micro USB for power supply
Media Support	
Video Resolution	Full HD1920*1080, 1280*720, 720*480, and more
Video Decoder	Support H.264,VP8,RV,WMV,AVS,H.263,MPEG4...etc Video Formats decode with 1080P, Support avi, vob, mkv, ts, m2ts, rm, f4v, flv, mpg/mpeg, mov...etc formats.
Audio Container	Support MP3, WMA, AAC, WAV, OGG, REAL audio, ALAC...etc formats. Also support FLAC, APE HD Hi-Fi Audio formats.
Image Format	Support JPEG, BMP, GIF, PNG, TIFF, Support 8000*8000px Resolution of high-definition digital photos
Software Download	Online firmware auto update for the hardware
Mirroring Protocol	Support Miracast, DLNA, Airplay, WiDi, MirrorOP, AirParrot, AirPin
Physical and Environmental	
Operation Temperature	-10~40°C
Storage Temperature	-20~50°C
Humidity environment	5%-90%(No condensation)

8.2 Specification as HD Media Player:

Video Format Support	MPEG4	Divx3, Divx3.11, Divx4/5, 3ivx, Xvid, MKV, VC-1(WMV-HD), BD, BD-IS; Blu-ray DVD, MOV, AVI, H.264(AVC HD), Full HD 1080P decoding and playing
	Streaming Media	RM/RMVB: Real 8/9/10/11, support 1440*720 up to 2.8Mbps FLV, ASF
	MPEG-2	VOB DVD/D5, AVI, support DVD inside SUB multilingual subtitles, Support changing subtitle language by remote control; Support DVD with IFO
	MPEG	DAT, AVI, MPG
Audio Format Support	MP3, WMA, OGG, WAV, OGG, FLAC, Real audio, ALAC, APE Bit rate: 32Kb/s ~ 320Kb/s	
	MP3 WMA, Support ID3	
	Stereo audio output: 2.0V ± 0.2Vp	
	Frequency Range: 20Hz-20KHz ≤2db(1KHz 0db) Dynamic range: > 80 dB (1kHz0dB)THD: 0.04% Audio distortion: lower than test level, SNR:>=80dB(1kHz0dB) Crosstalk: more than 80 dB (1kHz0dB)	

Codec Support	MPEG1,HD MPEG2(up to MP@HL 1080i); HD MPEG4 SP/ASP(720p/1080i/1080p) Xvid,WMV9(up to 1080p); H.264 BP@L3,MP@L4.1,HP@L4.1(up to 1080p) RM/RMVB8/9/10(up to 1280x720@30P) DTS/DOLBY supported (True HD 7.1)	
TV System Support	NTSC/PAL/(Optional: SECAM)	
Picture Support	JPG/JPEG/BMP/GIF/TIFF; Music Slideshow, Zoom and Transition	
Subtitle Support	SUB, SRT, SSA, SMI, IDX+SUB	
HDD Capacity Support	No Limit (external 2.5"/3.5" SATA HDD)	
HDD File System Support	FAT16/FAT32/NTFS EXT3	
Language Support	Multilingual	
USB HOST	Support driving most of the external USB storage devices, such as card reader, USB Hub, USB flash drive, portable hard disk, etc.	
I/O Interface	Video Out	HDMI, VGA, CVBS
	Audio Out	HDMI, CVBS, Optical/SPDIF
	USB	USB 2.0 Host*2
Power	Micro USB port, DC:5v2A output , Max Wattage: 10w	
Working Temperature	0° C~55° C	
Working Humidity	10%~75%	
Product Size	L131 * W81 * H22(mm)	
Accessories	HDMI cable, USB Charger, USB Cable, Remote Control, Quick Installation Guide	

9. FAQ and Troubleshooting

Q1. What's the System Requirement for Wireless Presentation Gateway s

For Miracast, Android 4.2 or greater is needed, or Windows 8.1 and greater (hardware should be Miracast enabled, see <http://www.intel.com/support/graphics/sb/CS-034563.htm>), or WiDi 3.5 and greater

For AirPlay Mirror, iOS 6 and greater

For DLNA, Android 4.0, iOS 6, and greater version

Q2. My projector doesn't have a HDMI but a VGA input port, can I still use the Wireless Presentation Gateway to Playback or for screen mirroring? Is there a HDMI-to-VGA convertor needed?

Yes you can. Simply use connect the Wireless Presentation Gateway with your projector with the VGA port for Media file playback or wireless presentation. If necessary, connect the AV port for audio output when video output with VGA, so there's no need for a HDMI-to-VGA convertor at all.

Q3. My TV or AV system doesn't have a HDMI but composite A/V input port, can I still use the Wireless Presentation Gateway, too?

Yes. Simply connect your TV or AV system with the AV port of the Wireless Presentation Gateway.

Q4. Can I operate the Wireless Presentation Gateway without the remote control?

Yes. Though for system configuration and working as HD media player mode, the remote control works much simpler and more convenient, if you like, you can still use your mobile phone to operate when the

Wireless Presentation Gateway and your mobile phone are WiFi connected, go further operation following 4.2.B of the QIG.