



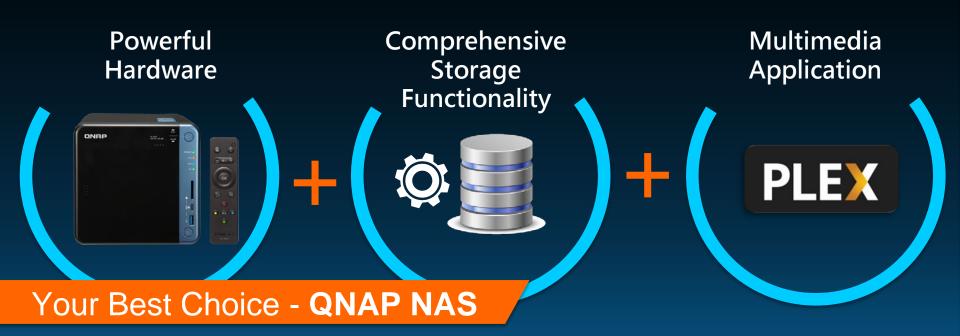
In-depth use of PLEX & QNAP

- 1 QNAP NAS & Plex
- 2 | Plex Introduction
- 3 Installation & Setup
- 4 How to use Plex
- 5 Transcoding

QNAP

QNAP NAS & PLEX

Build Your Home Media Center





Powerful hardware support

High-speed network / expansion Capabilities

- 10GbE
- Thunderbolt 3

- USB-C QuickAccess
- SD Card slot

Local display

HDMI

Easy storage expansion

- Qtier
- VJBOD

Attach Expansion Enclosure

Powerful GPU



High-speed network / expansion capabilities

Variety options meet your need

Thunderbolt™ 3

High-speed Thunderbolt 3 with SMB protocol, allowing Mac and Windows users to collaborate on media editing.

USB-C QuickAccess

The files and data stored on the NAS can be directly accessed by using a USB cable

10GbE Network

10GbE connectivity accelerates file sharing across devices.

SD Card Slot

Allows you to quickly transfer data from other devices to the NAS



One Plex for different NAS series

Intel series

High performance for Video Transcoding

GPU transcoding



AMD series

High-speed multi-tasking

CPU transcoding



ARM series

Light multimedia application

Audio transcoding only





Supported models - Intel-based



Intel-based models support video transcoding via GPU

- Suitable for photo, music and video.
- Support hardware transcoding for high bitrate videos;
 some series also can support up to HEVC 4K.



Supported models - Intel-based



NAS Model	1080P	H.264 4K	HEVC 4K 8-bit	HEVC 4K 10-bit
x51+	⊘	83	8	8
x51A, x53A	⊘	⊘	8	8
x82 (Core i Gen6)	⊘	⊘	⊘	8
x53B (Apollo Lake), x82T3, x82BR (Core i Gen7)	⊘	⊘	⊘	

HEVC 10-bit sample file: 4K 30F Level 5.1 main10 -> 1080P(10Mbps)



Supported models - AMD-based



AMD-based models support video transcoding via CPU

- Suitable for photo, music and video. The NAS will use more resource for processing high bitrate video formats.
- With QNAP multimedia packages, such as Qmedia for Android TV or Apple TV, you can play videos on TV directly. With QVHelper, you can stream media files or music playlists from QNAP NAS to VLC media player, providing more choices for your multimedia enjoyments.



Supported models - x31 (ARM-based)



ARM-based models only support audio transcoding

- Suitable for photo and music.
- With QNAP multimedia packages, such as Qmedia for Android TV or Apple TV, you can play videos on TV directly. With QVHelper, you can stream media files or music playlists from QNAP NAS to VLC media player, providing more choices for your multimedia enjoyments.



Multimedia Solution

Collect Manage Play



Multimediaa Solution Package

Collect

- File Station remote mount
- Qsync
- Mobile apps
- Download Station
- Happyget

Manage, Backup & Search

- File Station
- Mobile apps
- Hybrid Backup Sync
- Qsirch
- Snapshot

Playback

- PLEX
- Video Station
- Photo Station
- Music Station
- Cinema28
- Mobile apps



Collect data to NAS







Plex Introduction

PLEX

Plex is like mission control for your personal media collections

Easy to use

Available anywhere

Rich media information

Support any format

Support various devices

Sharing



Plex Media Server and Apps





PLEX Media Server



PLEX APP





PLEX features

Feature	Free	Premium
Any Format	Ø	Ø
Support various devices, such as Apple TV	Ø	Ø
Library Organization	Ø	8
Sharing	Ø	O
Trailers and Extras	8	(
Hardware-Accelerated	8	(

For more information, please visit PLEX official website: https://www.plex.tv/



QNAP

Installation and Setup

Install / Update

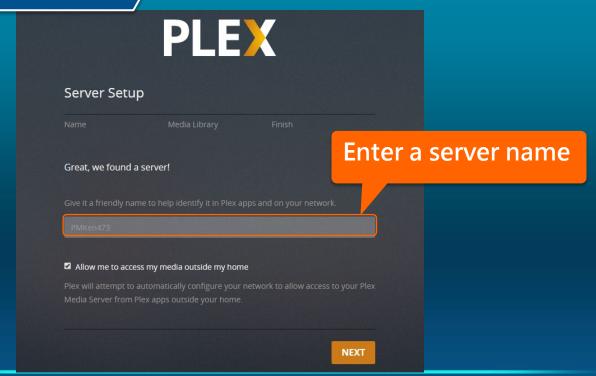
Install / Update Plex Media Server via App Center inside QTS





Setup - 1

Set up the server name





Setup – 2 (a)

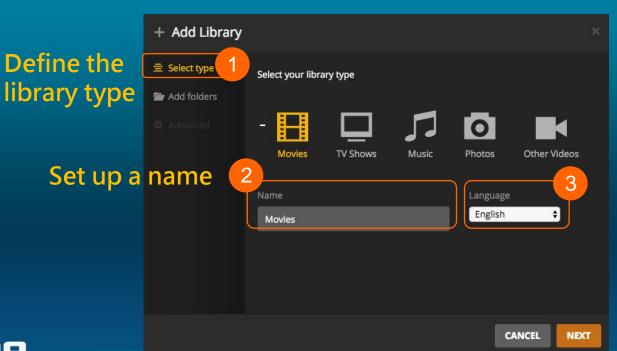
Set up the multimedia library





Setup – 2 (b)

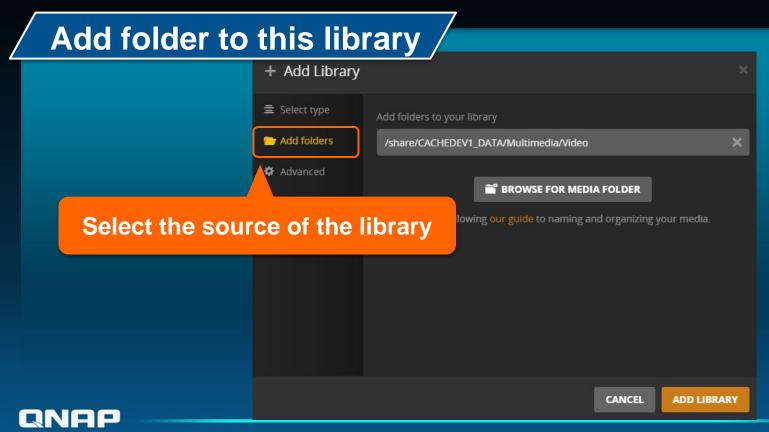
Define the library type



Define the language for this type

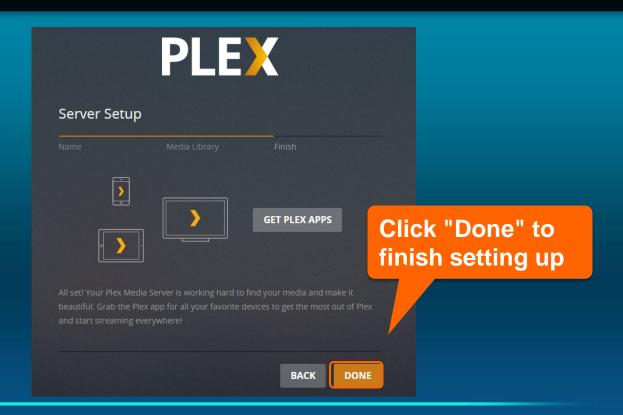


Setup – 2 (c)



Setup - 3

Confirm



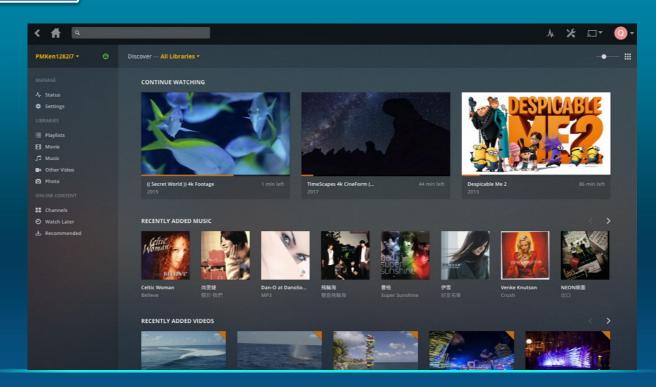




How to use Plex

Plex Web UI

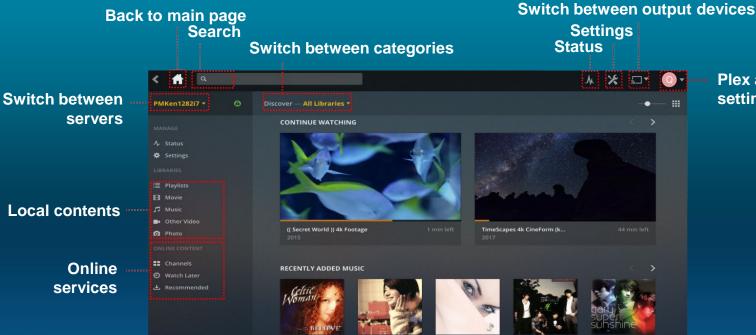
Main page





PLEX Web UI

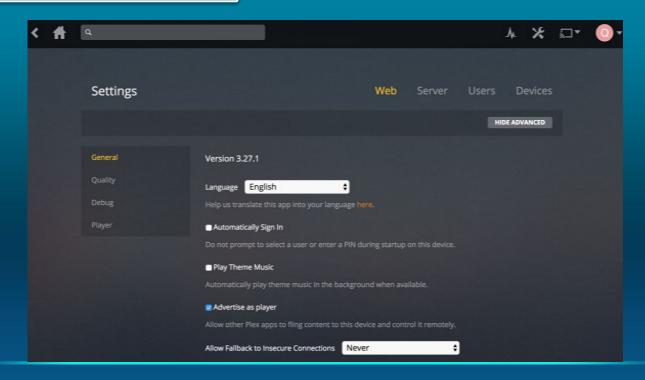
Introduction of Plex web UI



Plex account setting

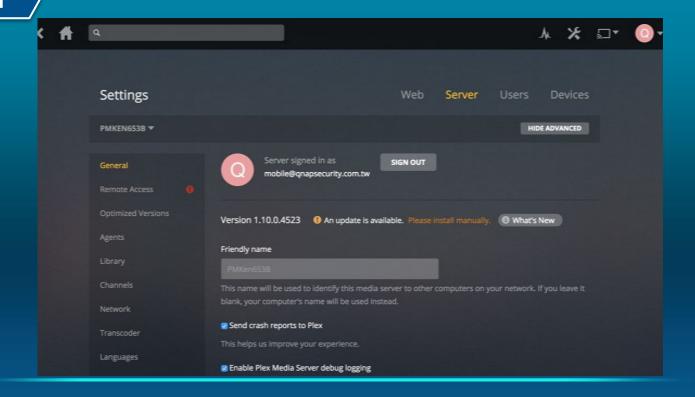


Web browser setting



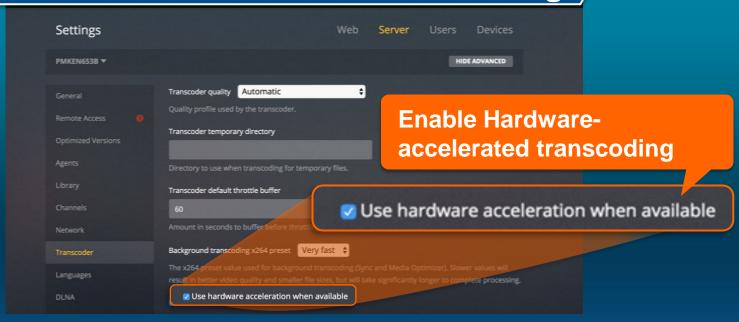


Server





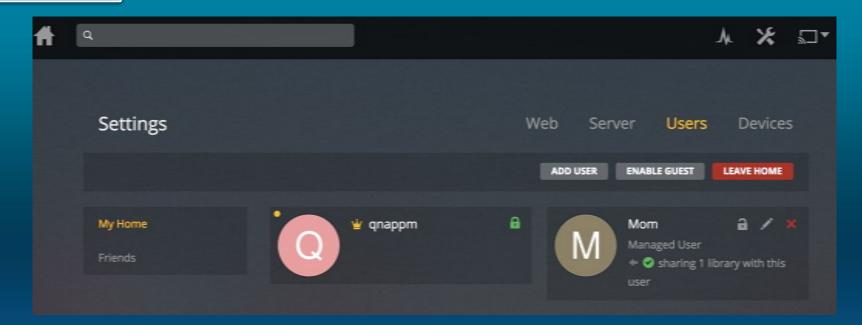
Server - Hardware-accelerated transcoding





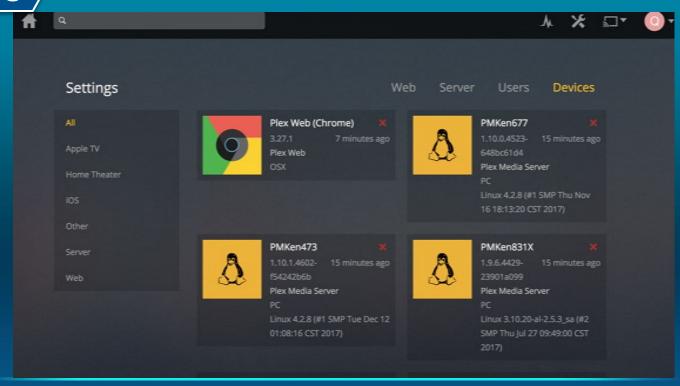
Only for Plex Pass

Users





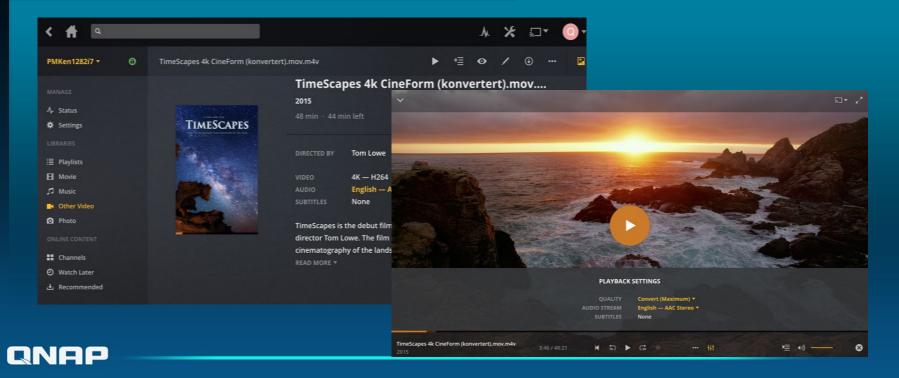
Devices





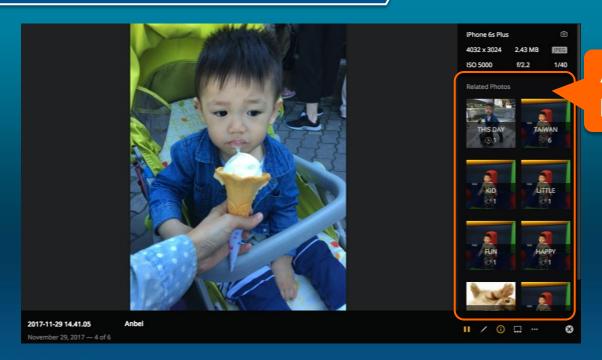
Plex - Web

Play videos via web browser



Plex - Web

Play photos via web browser



Automatic photo-tagging



Plex - Web

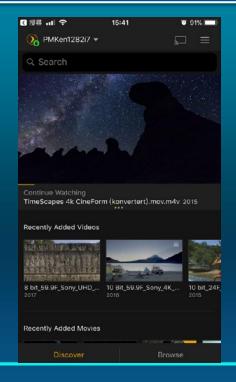
Play music via web browser

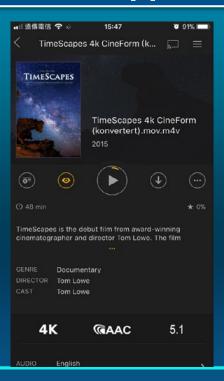




Plex - Apps

Play multimedia contents via Plex apps







Local playback

PLEX Home Theater



Play multimedia contents directly on TV by using Plex Home Theater on HD Station

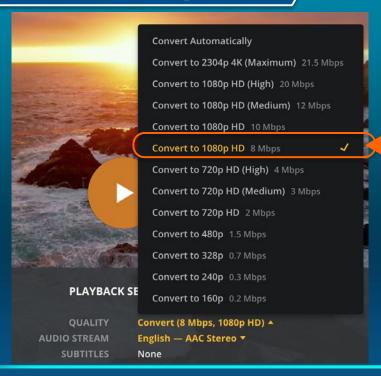


QNAP

Transcoding

Realtime transcode

Realtime transcode option



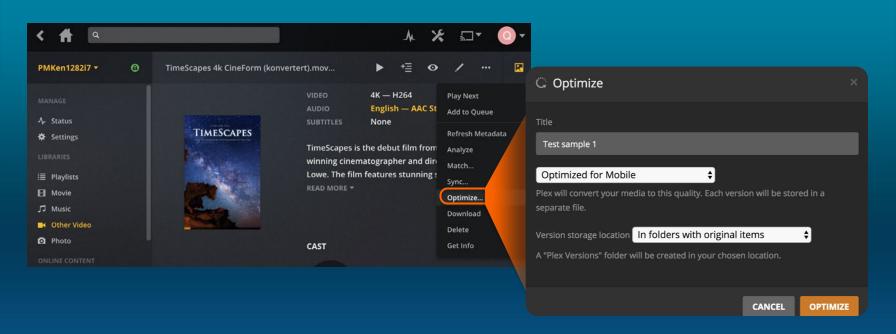
Video quality:

The higher the resolution selection, the greater the network bandwidth required.



Offline transcode

Set up a offline transcoding process





Tips

Naming rule - Movie

Movie's file naming format : MovieName (release year).ext

```
Example:
/Movies
/Avatar (2009)
Avatar (2009).mkv
/Batman Begins (2005)
Batman Begins (2005).mp4
Batman Begins (2005).eng.srt
poster.jpg
```



For more information, please visit PLEX official website: https://support.plex.tv/hc/en-us/categories/200028098-Media-Preparation



Tips

Naming rule - TV shows

TV show's file naming format:

```
Multi-Episode Files -> ShowName - sSeasonNumbereEpisodeNumber-eEpisodeNumber.ext

Example:
/TV Shows
/Grey's Anatomy
/Season 01
Grey's Anatomy - s01e01.avi
Grey's Anatomy - s01e02 - The First Cut is the Deepest.avi
/Season 02
Grey's Anatomy - s02e01.avi
Grey's Anatomy - s02e01.avi
Grey's Anatomy - s02e02-e07.mkv
```

Single-Episode Files -> ShowName - sSeasonNumbereEpisodeNumber.ext



Tips

Naming rule - Music

PLEX will use the embedded ID3 tag metadata priority.

For those do not have the embedded metadata:

Music's file naming format:

ArtistName - AlbumName/TrackNumber - TrackName.ext

Example:

/Music

/Pink Floyd - Wish You Were Here

01 - Shine On You Crazy Diamond (Parts I-V).m4a

02 - Welcome to the Machine.mp3

03 - Have a Cigar.mp3



