



2018

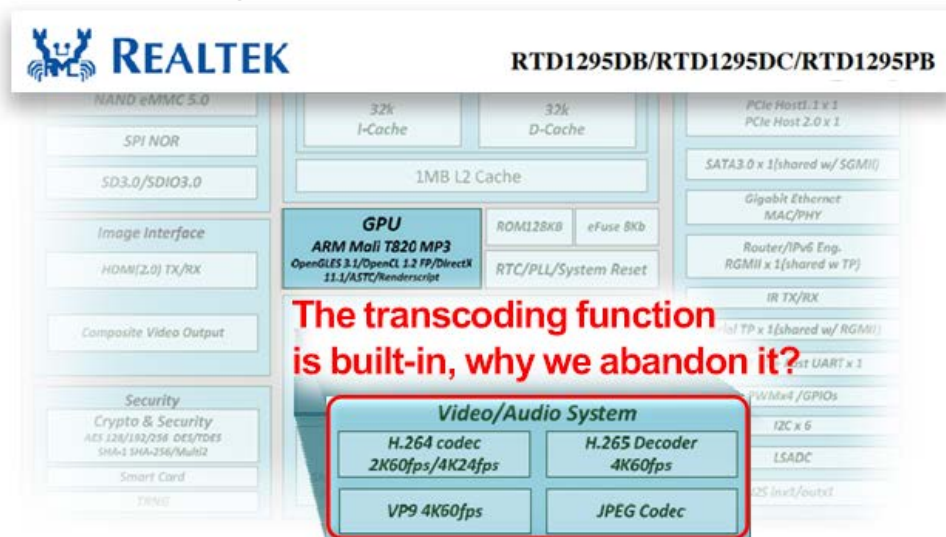
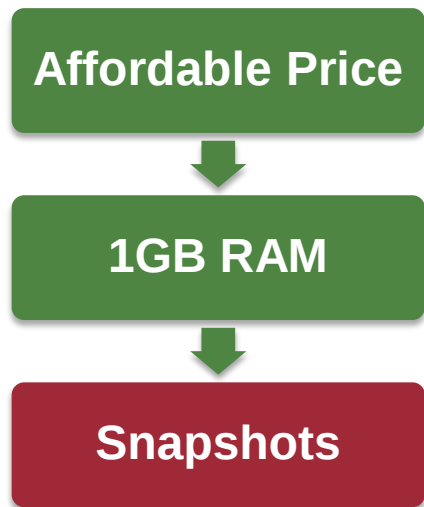
TS-128A / TS-228A

The last mile of Snapshot supported product line



Snapshots vs video transcoding, which one comes first?

- Data safety is always the top priority
- Snapshots are the best way to stay away from ransomware threats
- Qfinder Pro is the alternative to perform transcoding



Source: Realtek RTD1295 datasheet (Trademarks here are owned by their respective owners.)

With limited resources, we chose snapshots

Transcoding
Video playback for
various devices



**System
Resources**

Multimedia functions

Transcoding

Playback

Storage functions

Snapshot

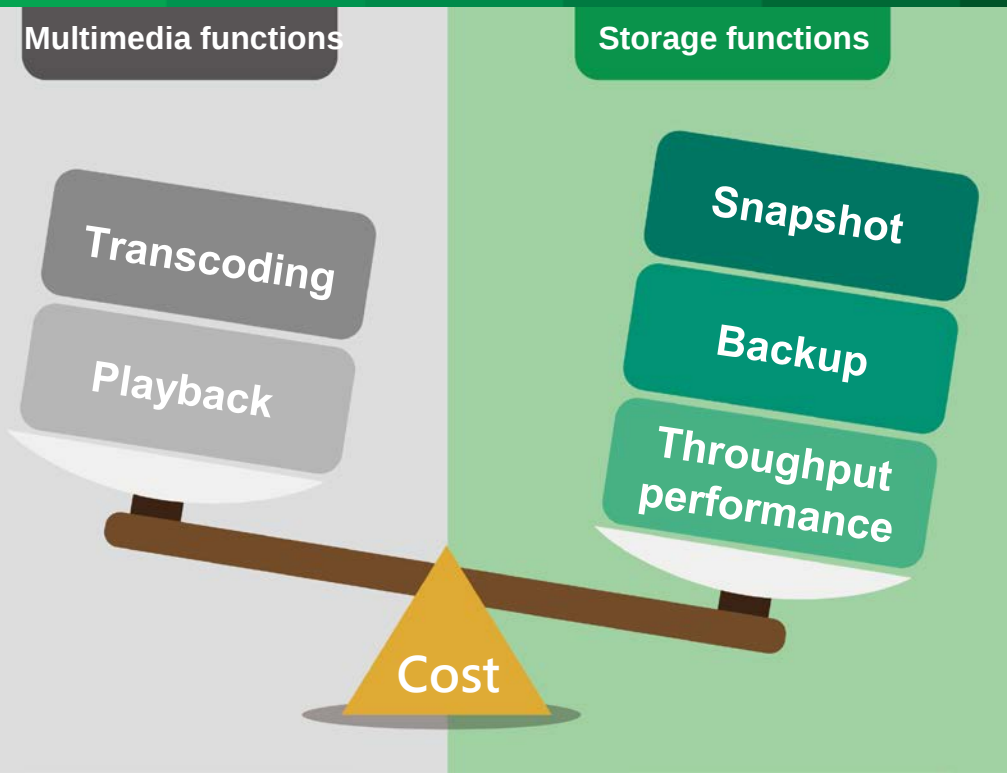
Backup

Throughput
performance

Snapshot
Protect data from
Ransomware
Accidentally
deleted data



**System
Resources**



To bring the best product to users, we focus on storage functions

The best choice for NAS beginners

With built-in 1 GB RAM, QNAP gives you both an affordable price and snapshots

Snapshot

Transcoding on PC and
upload via Qfinder Pro

Streaming playback via
VLC media player



I'd like to buy my first NAS,
and I want it to be..

- 1 Affordable
- 2 Snapshot-ready
- 3 Multimedia capable
- 4 Easy to use and sleek



TS-128A / TS-228A

QNAP

Upgraded Home NAS for 2018

2017

TS-228
Dual-core RTD1195



The TS-x28's design is so modern and elegant but no snapshots...

2018



TS-228A
Quad-core RTD1295



Leveraging the classic design while giving you snapshot protections!

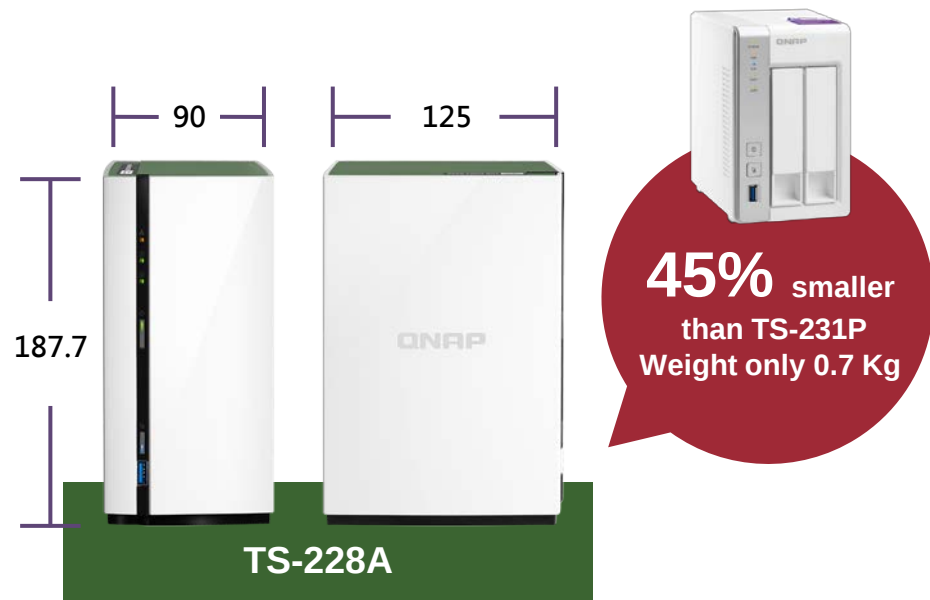
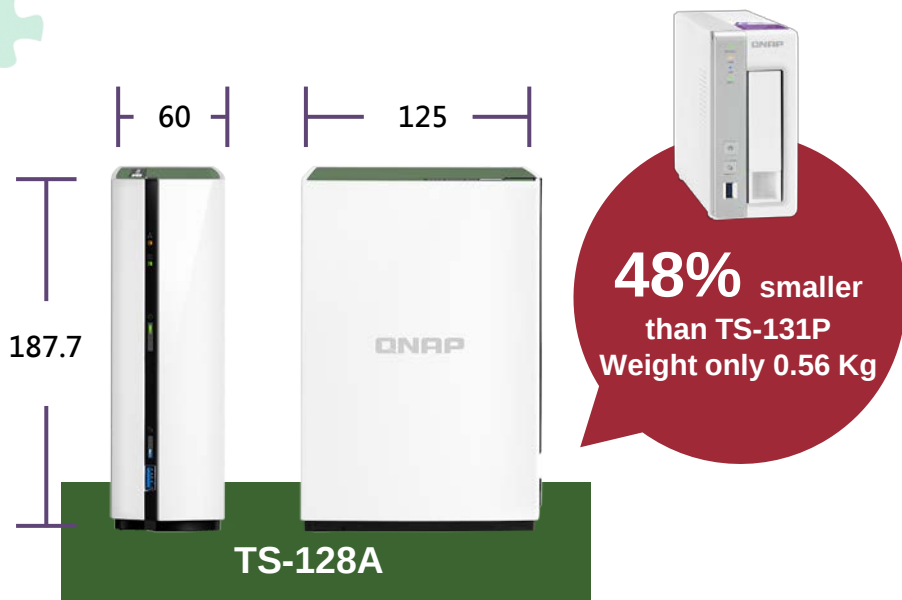
For the whole NAS

32

For a single volume/LUN

16

The most compact NAS



* Unit: mm

* HDDs and accessories not included

Contemporary Design that perfectly fit your home style

Vertical



Horizontal



Glossy chassis
Easily removes dusts



Quad-Core Processor and DDR4 RAM



Realtek RTD1295 Quad-Core
64-bit 1.4G Processor

Hardware Encryption
Engine

▶▶▶ **DDR4 1 GB RAM**

TS-128A / TS-228A

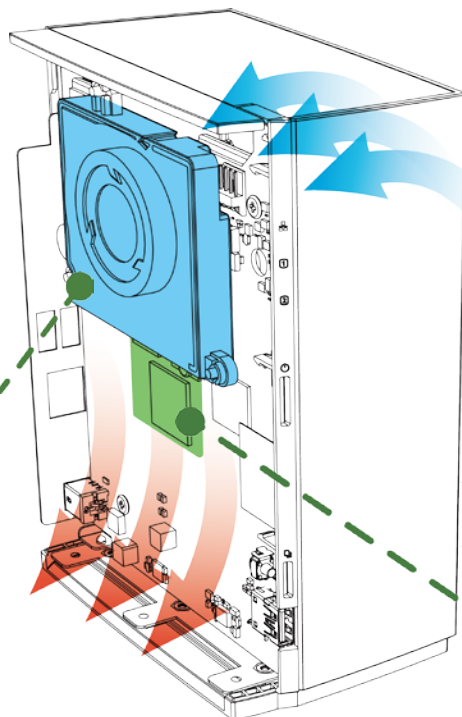
QNAP

Buttons, indicators and connectors



Eco-friendly design: quiet and energy saving

Hidden cooling fan
Noise level: 17.0 dB(A)

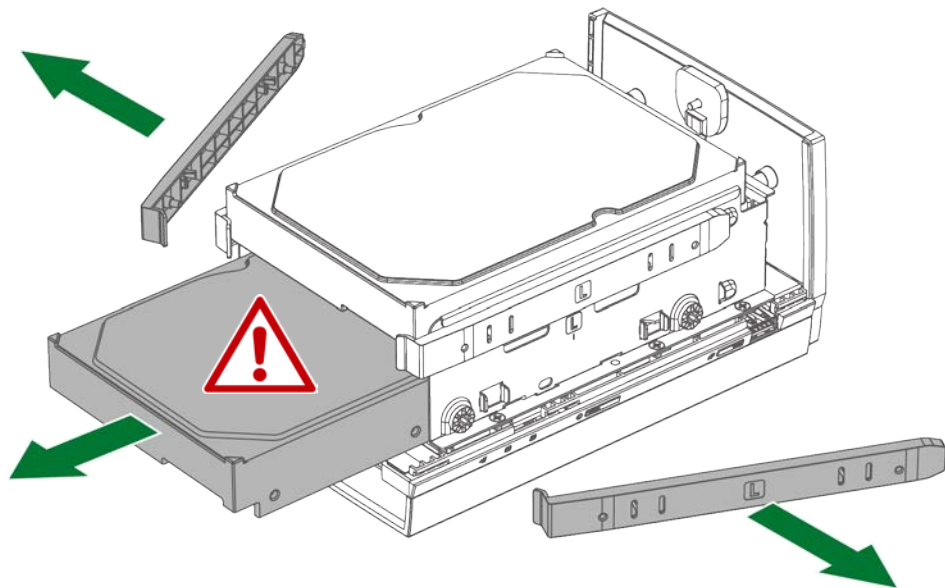


ARM Cortex A53
Energy Saving
Architecture
HDD standby : 5.14W
In Operation : 12.21W

* Sound Level Test Environment: Refer to ISO 7779; Maximum HDD loaded; Bystander Position; Average data from 1 meter in front of operating NAS.
Designs and specifications are subject to change without notice.

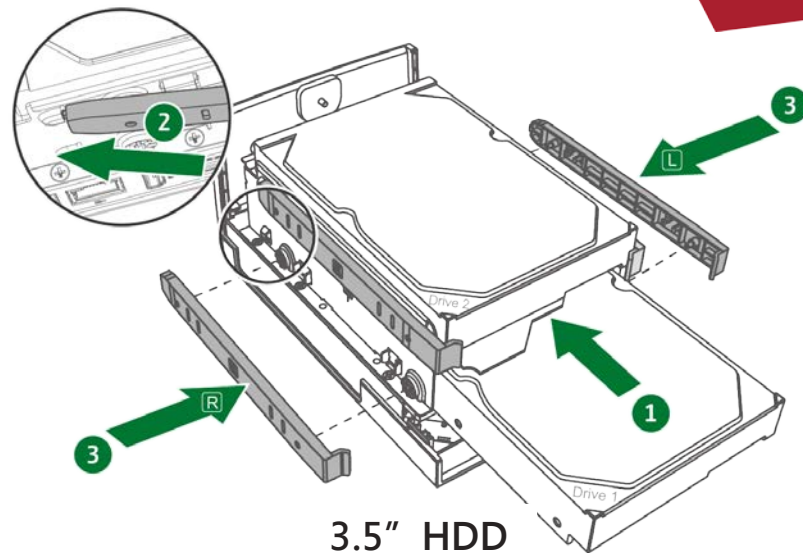
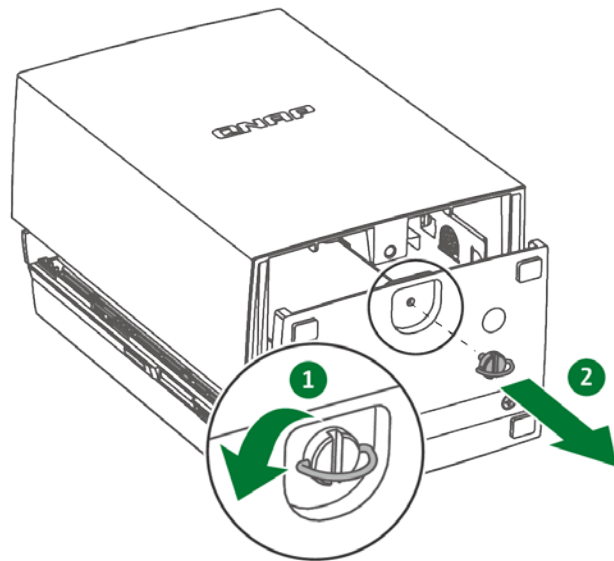
Support RAID1 and hot-swapping for data protection

TS-228A support RAID1 and hot-swapping for easily replacing faulty HDDs to secure data immediately



* TS-228A supports RAID1 protection

No tools are needed, easy and quick to set up TS-x28A





TS-x28A

The Highest ROI Solution Helps
You Against Ransomware



How Ransomware Causing Threat to Your Data?

According to Kaspersky Security Bulletin survey in 2017, every 10 second a personal will be attacked by Ransomware.

- Two way of spreading: Email Attachments and Compromised Websites.
- The later does not require user to trigger the virus.
- Some variants can encrypt unmapped network shares. While other delete shadow volume copies on windows.



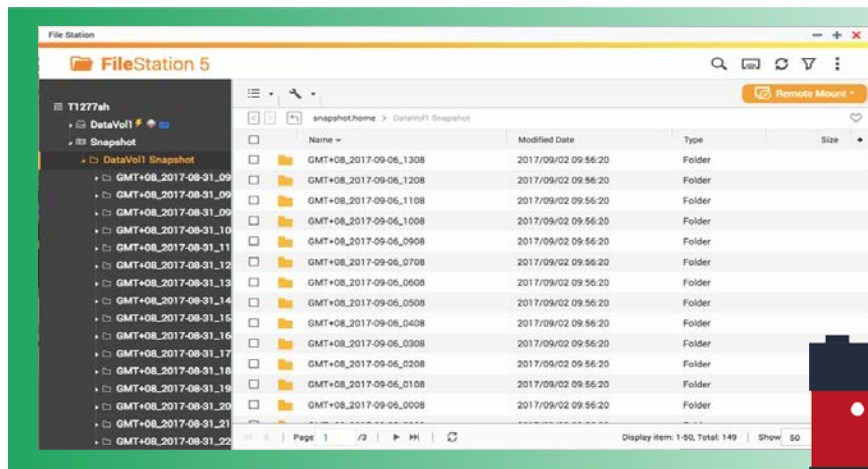
Using TS-x28A With Netbak to Backup Your Data

- Whatever installing antivirus softwares or practicing using habits, **Data backup is the most effective way againsting ransomware.**
- With QNAP free utility Netbak Replicator, data on PC can be real-time or scheduled backup to the TS-x28A easily.



Protect your backup with QNAP Snapshot

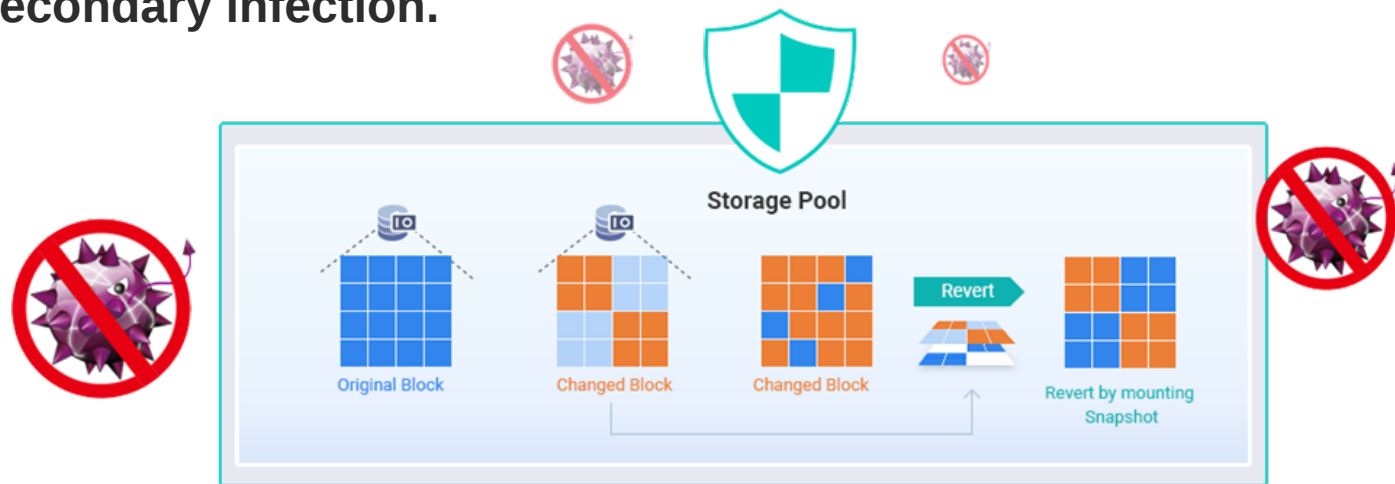
- Garbage in, garbage out. NAS can also be infected when backup data.
- Start from 4.3.4, QNAP has porting the advance Snapshot feature to personal NAS as well!



Higher
ROI

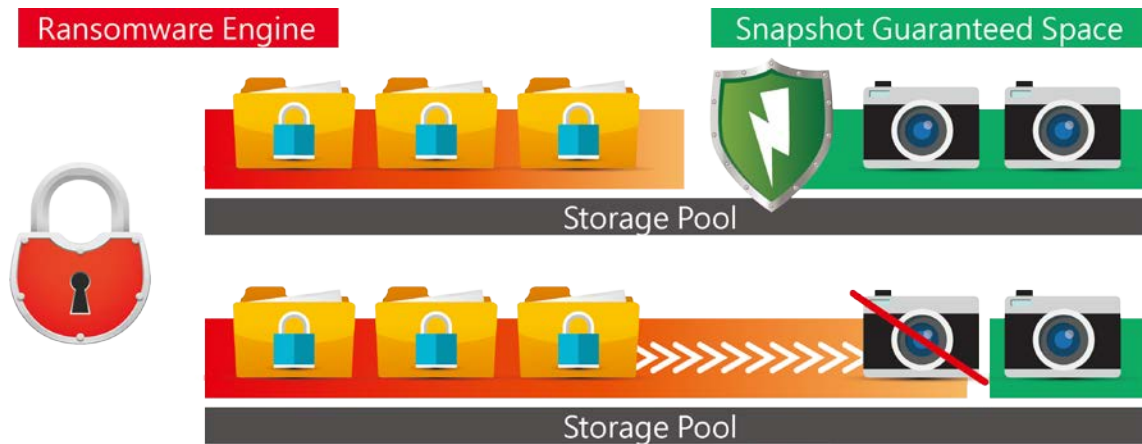
How QNAP Snapshot Can Protect Your Data?

- Data changes will also be recorded outside the volume in regular based.
- User can freely browser the past record in File Station.
- Quickly revert the whole snapshot back on the entire NAS and prevent secondary infection.



4 Defense Lines to Fight Against Ransomware

1. Linux-based QTS operating system makes the NAS more secure.
2. Snapshot Outside of Volume: Snapshot will not be affected by Ransomware.
3. Whole Volume revert: Overwrite all infected files at once.
4. Guaranteed Snapshot Space: Snapshot will not be recycled when Ransomware continue writing encrypted data.



The Best Entry-level NAS for Snapshot Protection

Product	QNAP TS-x28A	S Brand NAS
Snapshot On Linux	✓	✓
Snapshot Outside of Volume	✓ 	✗
Whole Volume Revert	✓ 	✗
Guaranteed Snapshot Space	✓ 	✗

For TS-x28A, each volume or iSCSI LUN can store 16 snapshots, and the whole device can store **32** snapshots with 1GB RAM.

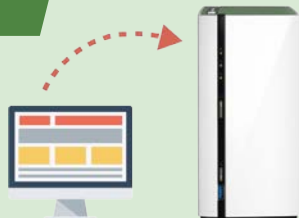
Integrated Windows Previous Version

- Windows users can use Windows Previous Version to directly browse different versions of a file that are kept by snapshots
- With SMB/CIFS/AFP/NFS, snapshots can be viewed in folders for restoring data



The 2 and 3 Steps To Protect Your Data With Netbak and Snapshot

Setup



Step 1: Using Netbak Replicator to create a regular backup job

Step 2: Create a Snapshot schedule on the backup destination

Recover



Step 1: Unplug all the network cable of the NAS

Step 2: Use a clear computer to create a direct connection

Step 3: Login to the NAS with QTS and use “Snapshot Revert” to revert the whole volume.

Netbak Replicator and Snapshot Schedule Configuration. How to Recover data when PC be encrypted by Ransomware.





QVHelper
Qfinder pro
360° Panorama Video
Qphoto 3



QVHelper

Your video playback helper



In the past, playing videos on NAS is like...

The system doesn't support certain formats,
so videos cannot be played.



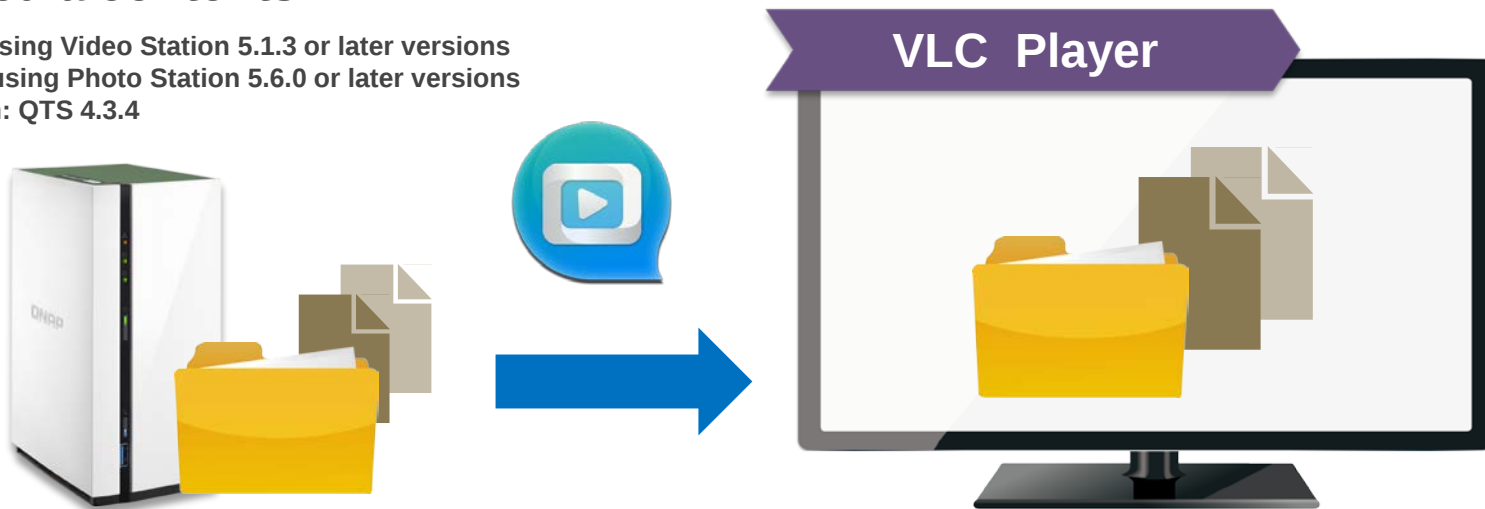
OH NO!
I can't watch
this video!



QVHelper

QVHelper allows users to stream media files from a QNAP NAS to VLC player on your PC and Mac, providing more choices for you to enjoy multimedia contents

- * Required using Video Station 5.1.3 or later versions
- * Required using Photo Station 5.6.0 or later versions
- * File Station: QTS 4.3.4



QVHelper Demo



Qfinder pro

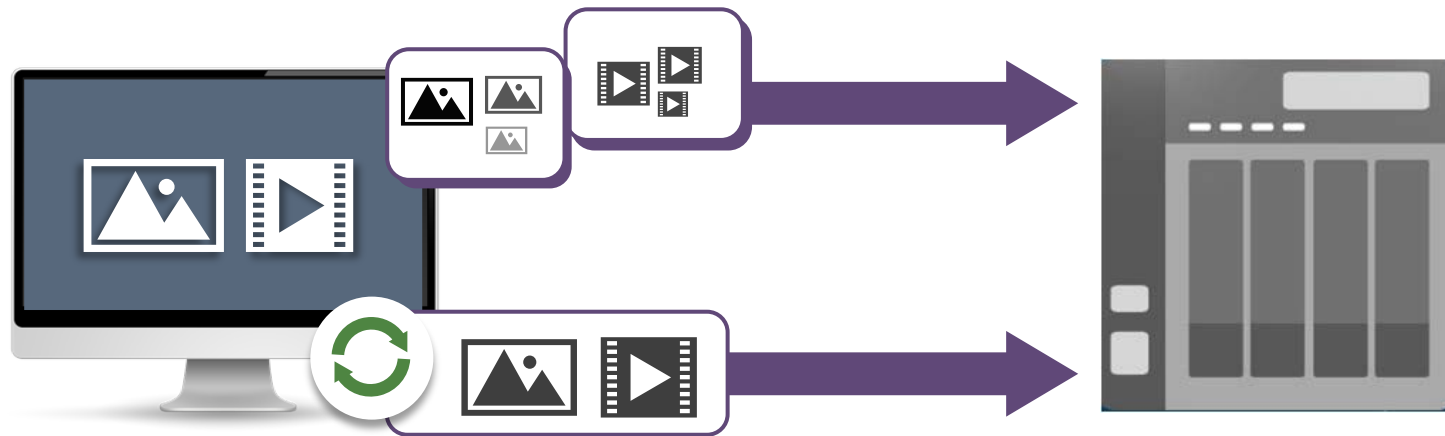


Media Upload



Media Upload

Batch Upload local files (photos or videos)



Perform local transcoding/conversion, then upload to NAS. This solves the problem that some entry-level ARM-based models don't support hardware transcoding.

Media Upload - Advanced Settings

Create thumbnails

File name conflict policies
during upload

Settings for Upload

- ▶ Original files
- ▶ Transcoded files

Resolution

Performance comparison

720p m4v -> 360p mp4

Time spent for transcoding and upload

Qfinder Pro

37_s

S** Photo Station
Uploader

93_s

There is a **56**_s difference

Qfinder Demo



360° Panorama Video



360 ° Camera

Nowadays popular 360 degree camera



Ricoh Theta V/S



Samsung Gear 360



Garmin
VIRB® 360



Acer Holo 360



ASUS 360°
Camera



Insta360 Pro 8K



Nikon
KeyMission 360

Nowadays popular
360 ° degree camera

Panorama mode, experience the environment

- 360-degree view in panoramic mode, Keep all the good memories
- Support panoramic mode in Video Station and Share link.

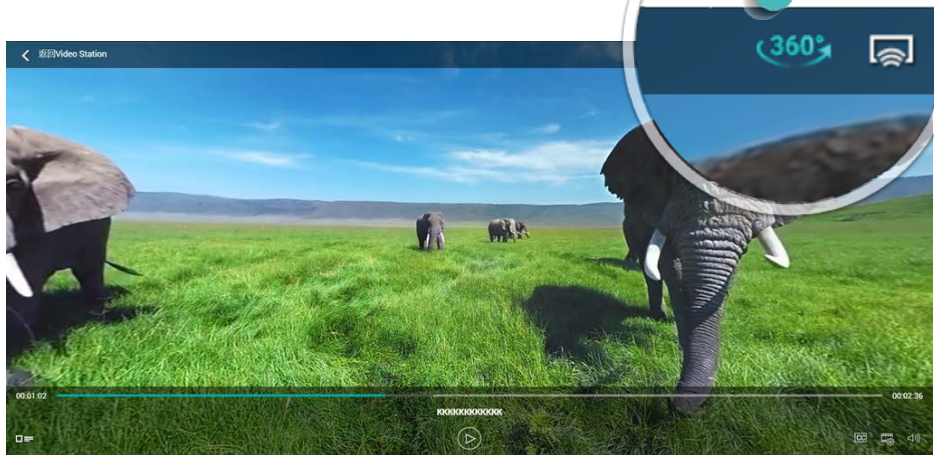


- Google Cardboard
- Google Daydream View
- Samsung Gear VR
- xiaomi vr play 2

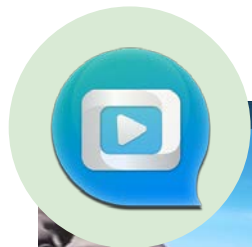
Video Station

Support manually change 360-degree panorama mode

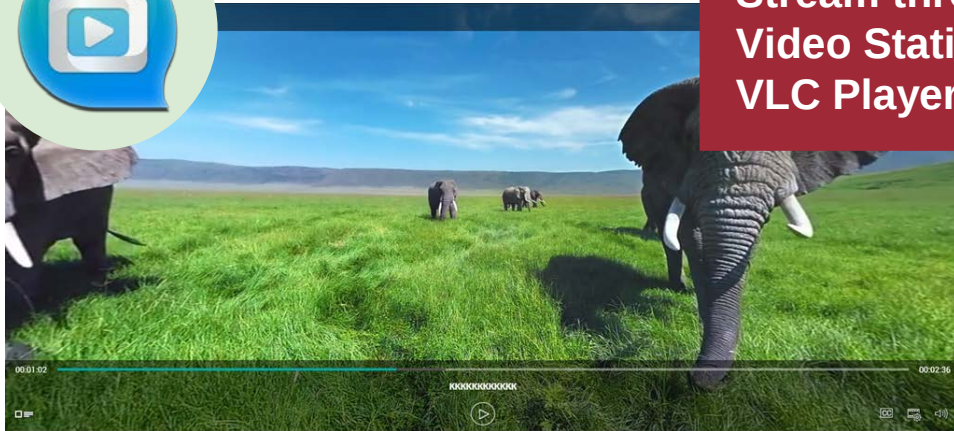
Video Station will automatically recognizes videos taken with a 360-degree camera and automatically enables panorama mode when browsing



360-degree Video with VLC Player



Stream through
Video Station to
VLC Player 3.0.0



VLC Player 3.0.0

360° Panorama Video Demo



Qphoto 3



on mobile, handy photos.



Collect the stunning moments of vacation.



Send me the
pictures!



Then the tragedy happened at that night...



Phone's in the toilet!



My phone was gone...



Precious pictures, videos, and memories were gone...



The friendship seemed to come to an end...

Photo/Video Instant Upload, expanding your storage

Before



I can't have anymore photo or video.

Now



Instantly uploading the photos and videos to the NAS when recording.

Qphoto 3 Demo





**Coming soon
on 2018!**

