

QNAP

TS-x77 Series

**Supercharge business productivity with
efficient, powerful multi-core processing**

QNAP Systems, Inc.



TS-677



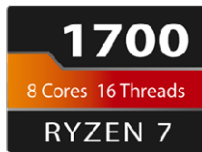
TS-877



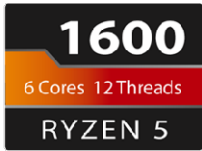
TS-1277



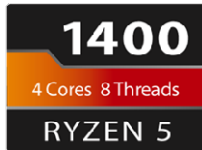
Elite performance w/ 65W TDP



8-core, 16-thread | 3.0 GHz / 3.7 GHz



6-core, 12-thread | 3.2 GHz / 3.6 GHz



4-core, 8-thread | 3.2 GHz / 3.4 GHz



QNAP 2017

The power to work faster & smarter



TS-677-1400-8G

Ryzen 5 1400, 8GB RAM



TS-877-1400-8G

Ryzen 5 1400, 8GB RAM



TS-877-1600-16G

Ryzen 5 1600, 16GB RAM

TS-1277-1600-16G

Ryzen 5 1600, 16GB RAM

TS-1277-1700-32G

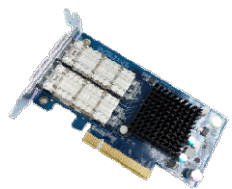
Ryzen 7 1700, 32GB RAM

TS-1277-1700-64G

Ryzen 7 1700, 64GB RAM

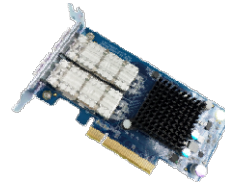
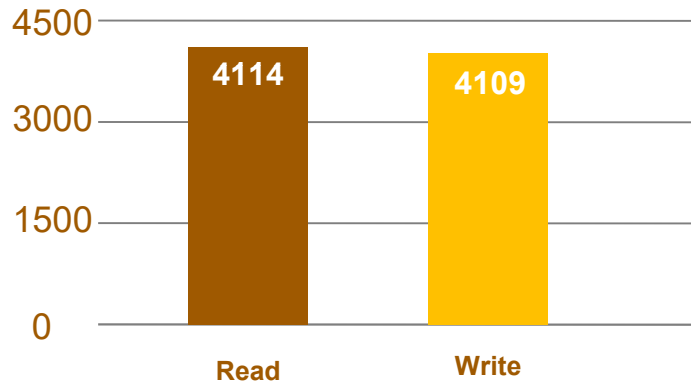


Optional 40GbE NIC for the speed of light



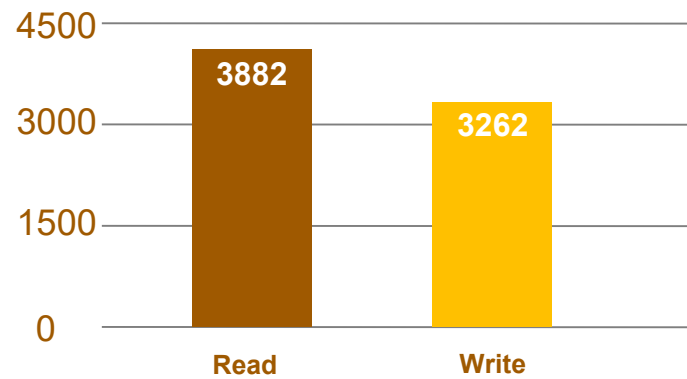
40GbE

(64KB, seq. transfer)



40GbE

(64KB, encrypted seq. transfer)



Tested in QNAP Labs. Figures may vary by environments.

Test environment:

NAS: TS-1277-1700-32G with QTS 4.3.4

Volume type: RAID 0; 12 x Intel S3500 240GB SSDs (SSDSC2BB240G4)

Client PC:

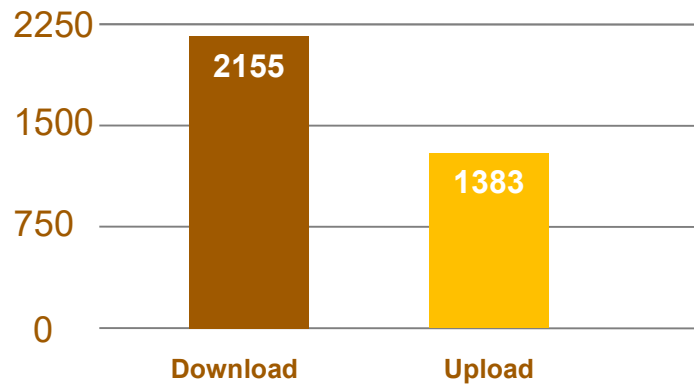
Intel® Core™ i7-4770 3.40GHz CPU; 16GB RAM; QNAP LAN-40G2SF-MLX 40GbE NIC ; Windows® 10 64-bit, IO Meter w/ 2 workers



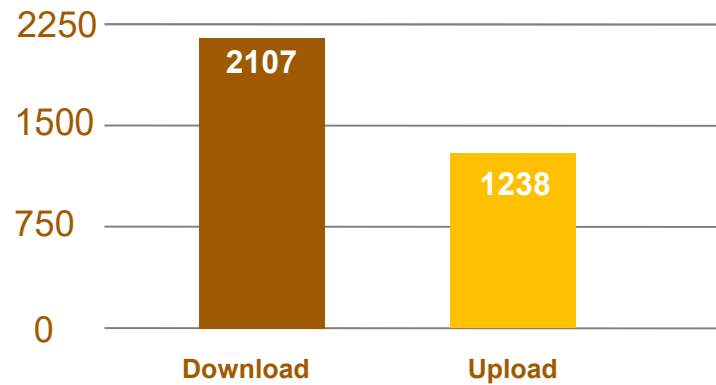
10GbE connectivity via a PCIe NIC



10GbE x 2
(Windows file transfer)



10GbE x 2
(Windows encrypted file transfer)



Tested in QNAP Labs. Figures may vary by environments.

Test environment:

NAS: TS-1277-1700-32G with QTS 4.3.4

Volume type: RAID 5; 12 x Intel S3500 240GB SSDs (SSDSC2BB240G4)

Client PC:

Intel® Core™ i7-4770 3.40GHz CPU; 16GB RAM; QNAP LAN-10G2SF-MLX 10GbE NIC ; Windows® 10 64-bit



Front overview

LED indicators w/
adjustable brightness:
HDD, SSD, M.2 SSD

2, 4 x 2.5" SSD trays for
Qtier auto tiering &
SSD caching

4, 6, 8 x 3.5" HDD trays
w/ support for 2.5" drives

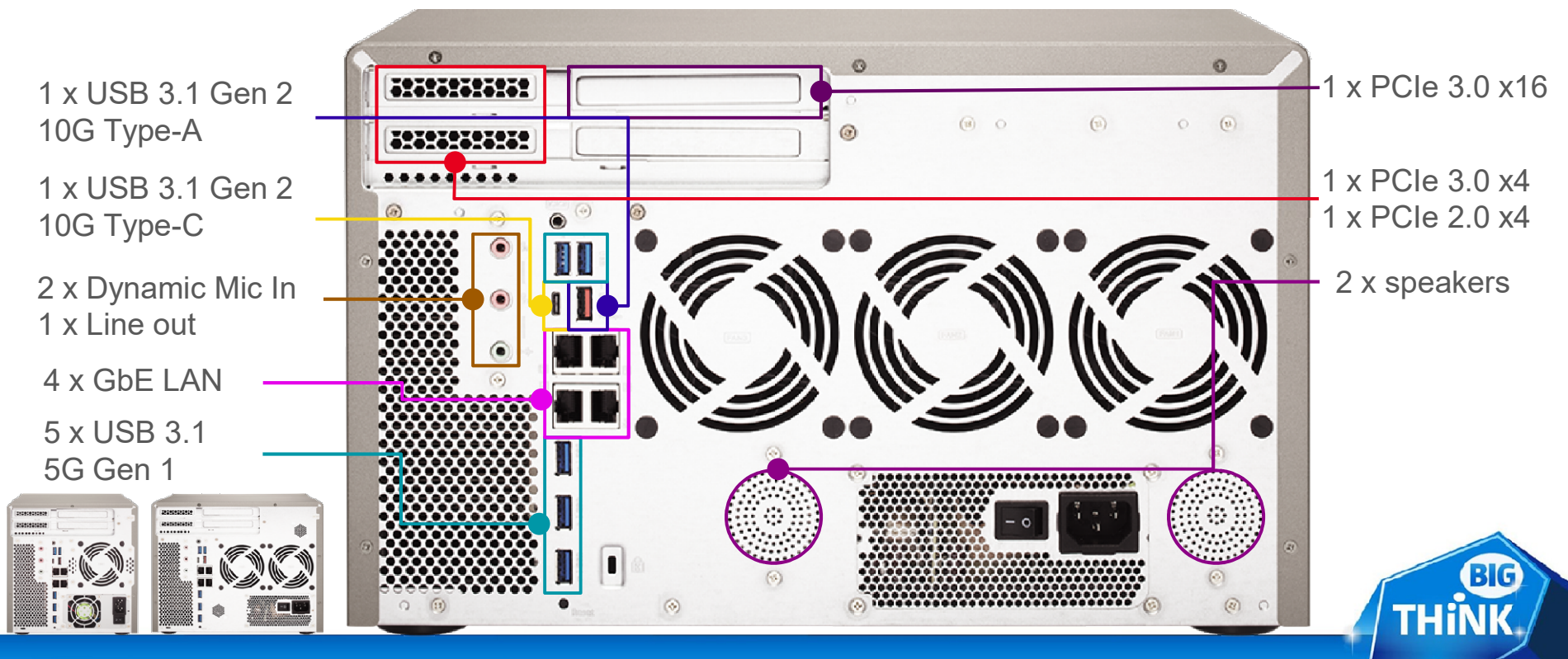
LCD w/ Enter &
Select buttons

Power button

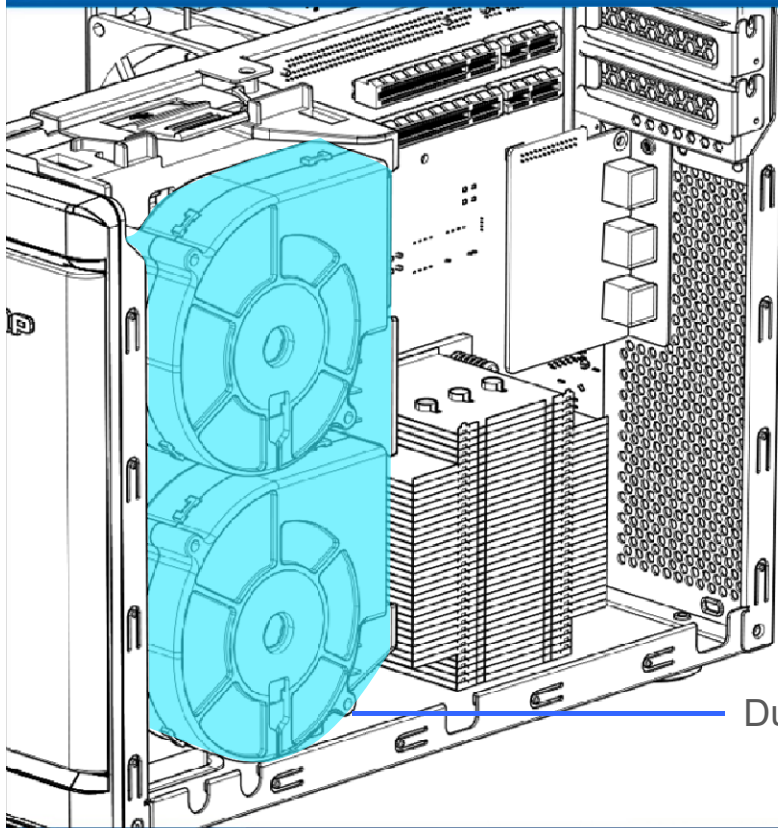
USB 3.1
Gen 1 &
Copy button



Rear overview



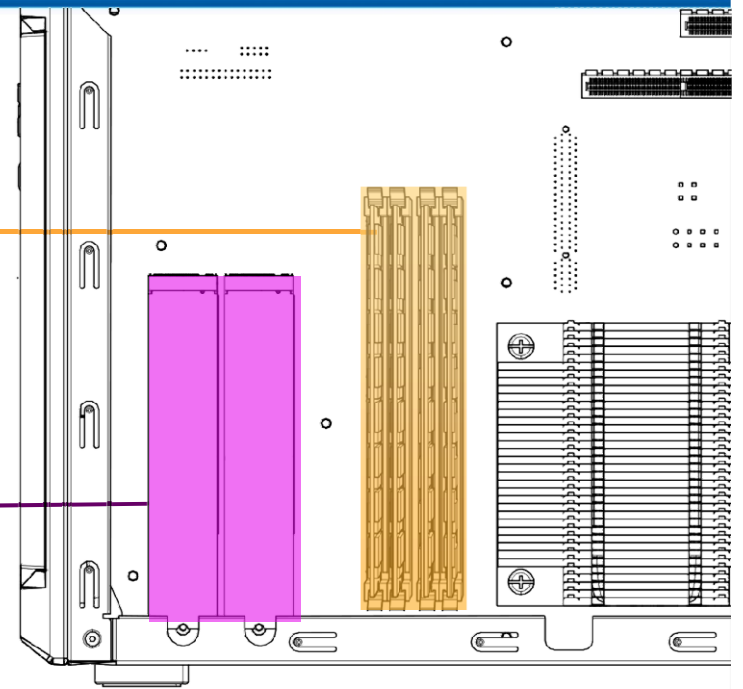
Under the hood



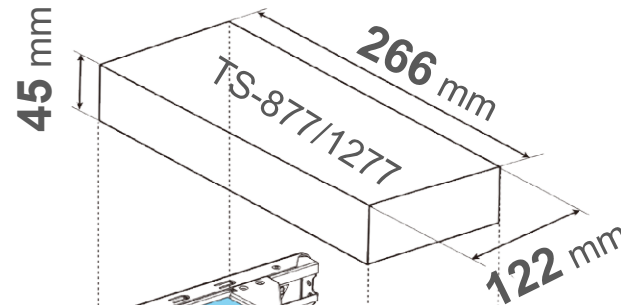
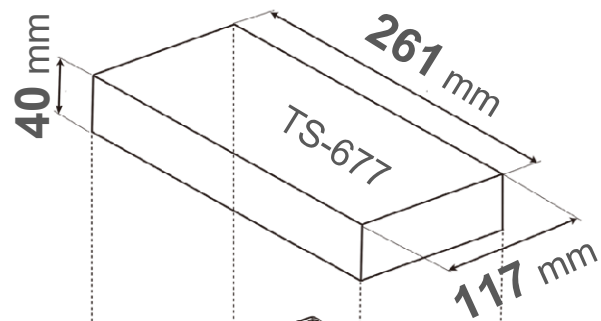
Dual **fan** coolers

4 x DDR4 UDIMM
RAM slots, max
64GB

2 x **M.2**
22110/2280/2260/
2242 SATA SSD
slots



Do more w/ desktop GPU



GTX 1050Ti

250W PSU
TS-677

550W PSU
TS-1277

450W PSU
TS-877



GPU passthrough & QTS utilization

- Virtualization Station: **AMD & NVIDIA** GPUs
- HD Station, Linux Station, hardware transcoding: **NVIDIA** GTX 1050/1060/1070 & P2000 GPUs

← ControlPanel



- System
 - General Settings
 - Storage & Snapshots
- Privilege
 - Security
 - Hardware
- Power
 - Notification
- Network & File Services
 - Firmware Update
- Applications
 - Backup / Restore
 - External Device
 - System Status
 - System Logs
 - Resource Monitor

General Audio Alert Smart Fan **Graphics Card**

You can install graphics cards on the expansion slots to increase the capacity for performing computations in certain applications. Additional graphics cards also provide the HDMI output capability that can be used by HD Station, Linux Station, and Virtualization Station. For details, go to [\(Compatibility list\)](#).

Manufacturer	Model	Memory usage	GPU usage	Fan speed	Temperature	Assign resources to
NVIDIA	QUADRO P2000	12.00 MB / 4.93 GB	0 %	Medium speed	33°C / 91.4°F	HD Station / Linux Station / Hardware Transc...

60 FPS | AMD RADEON GRAPHICS | 4K HDR ULTRA HD

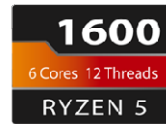
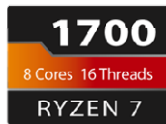


TS-x77 Demo

- Upgrade **memory**
- Install **M.2 SSD** with the included **heatsink**
- Install a **graphics card**
- QTS
 - Control Panel - Hardware - **Graphics Card**
 - HybridDesk Station **4K 60P** video playback



Coming soon in Q4



TS-1277-1700-64G

TS-1277-1700-32G

TS-1277-1600-16G

TS-877-1600-16G

TS-877-1400-8G

TS-677-1400-8G





QNAP



360° Panorama Photo & Video

QNAP Systems, Inc.

The Latest Trend of 360-degree Media

- Various devices support shooting 360° photo or video
- Well-known websites have supported 360 ° panoramic photos or video playback



YouTube



Facebook

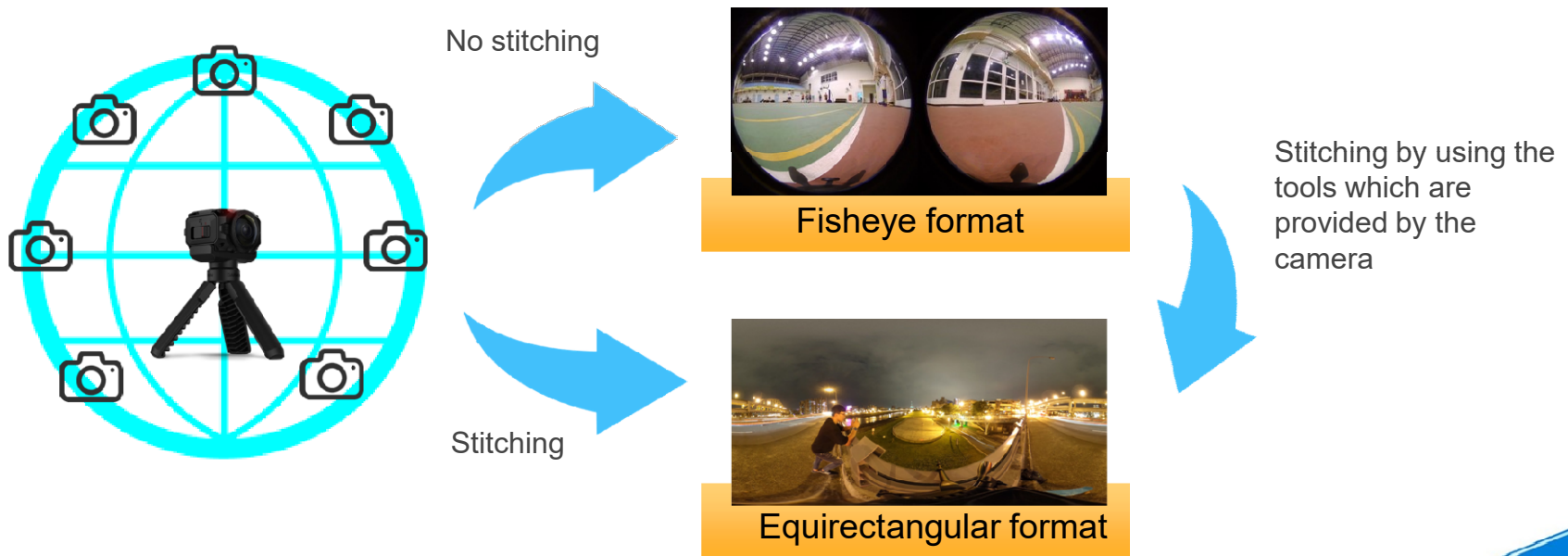


Garmin
VIRB® 360



What's 360° panoramic photo or video?

Use the 360° Panorama camera to record all angles



Popular 360 cameras



Single fisheye
Detu Sphere S



Dual fisheye
Ricoh Theta S



3 fisheye
GIROPTIC 360cam



4 fisheye
Detu F4



6 fisheye
Insta 360 Pro



2 standalone fisheye
Kodak SP360



6 cameras
GoPro Omni



8 cameras
Vuze 4K 3D 360
Spherical VR Camera

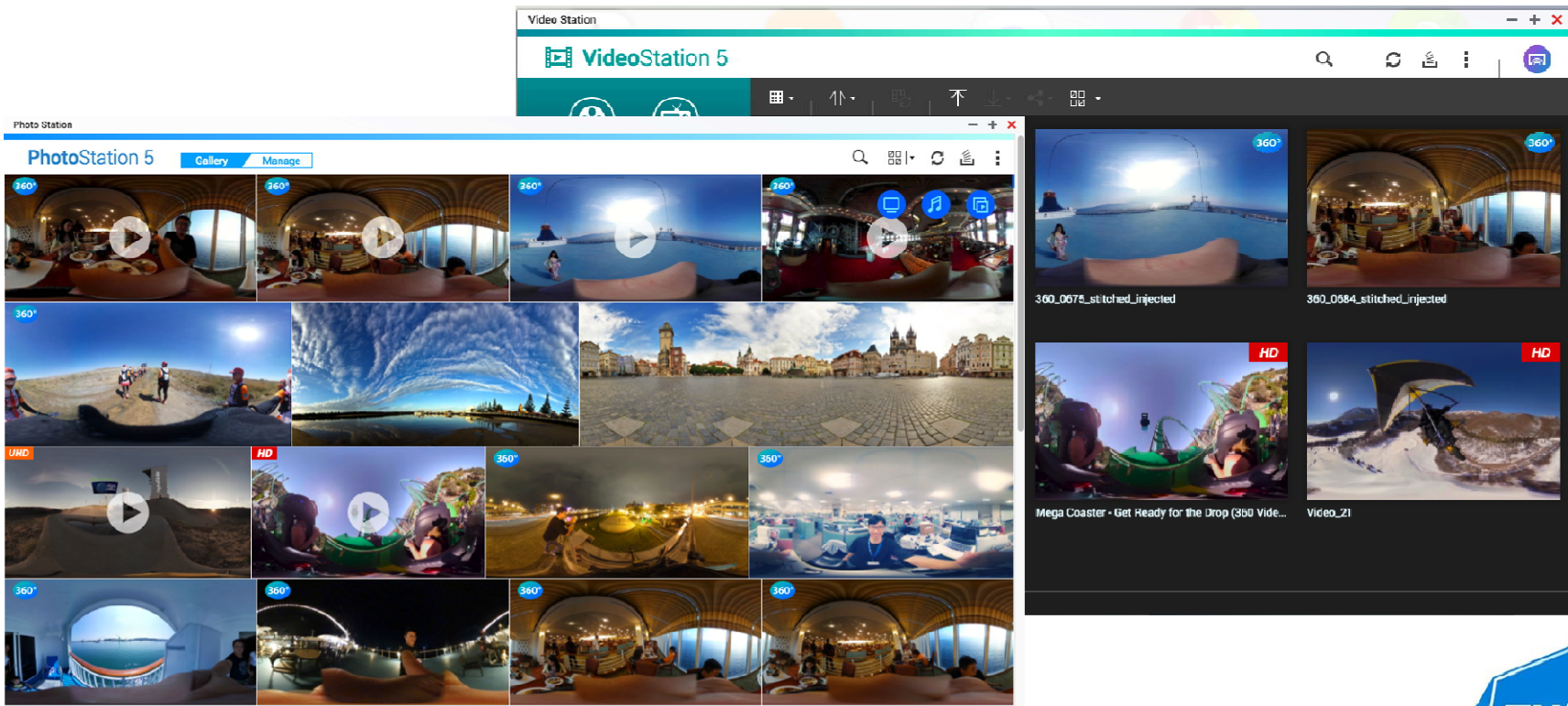


36 cameras
PANONO

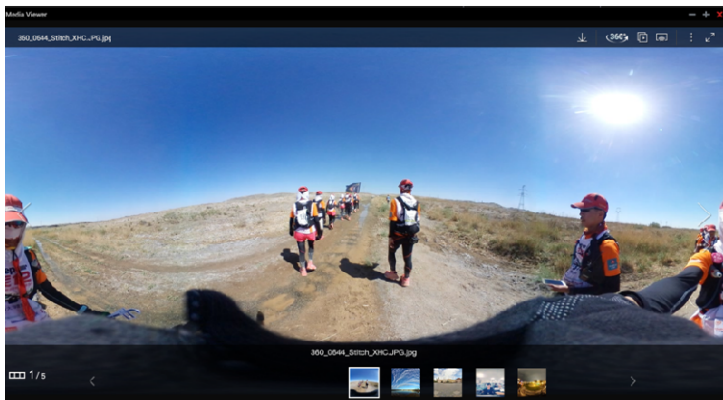


QNAP 2017

Supports 360° photo or video viewing on QTS 4.3.4



360° Photo and Video Viewing



Normal screen

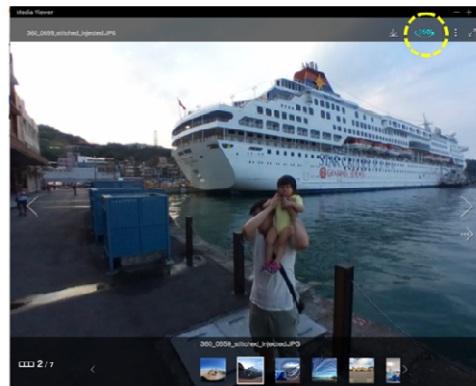
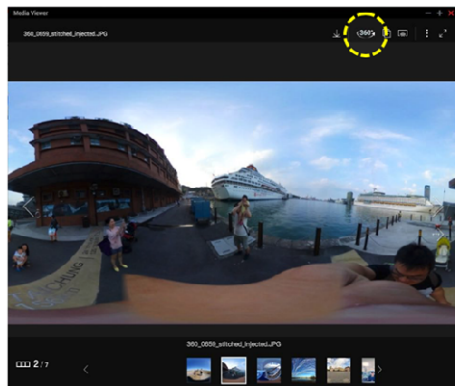


360° playback screen

View different angles by using mouse

360° file information

- If the file which have the following information, the player will initiate 360° playback function to view files
 - ✓ Projection Type= **equirectangular**
- If the file doesn't have this information, you can still play by clicking the 360° button



Supported Applications and Mobile Apps

Web-base Applications



File Station



Photo Station



Video Station



Qsirch

Mobile Apps



Qfile



Qphoto



Qvideo



Demo

TS-677

- CPU : AMD Ryzen
- RAM : 8GB
- GPU Card : Nvidia GTX 1050Ti
- QTS Firmware 4.3.4

iPhone 6 :

- Giroptic iO 360 Camera
- Qfile



The QNAP logo is displayed in white, uppercase letters on a blue rectangular background that is slightly tilted. The background of the entire slide is a complex, abstract 3D architectural scene with various geometric shapes and structures in shades of blue and white, creating a sense of depth and modernity.

QNAP

THANK YOU