Fingram

Change Your Things Small & Smart!

http://www.fingram.com

https://www.linkedin.com/company/fingram/

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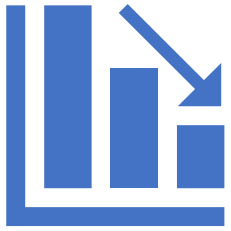
Our focus for B2B company

You can save **Money** & **Time** with us.



Smaller

Image & Video

Size Reduction

Faster

Image & Video

Processing Speed Up

Smarter

Image & Video

Understanding

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Market Proven Products

Faster, Smaller & Smarter than ever before

Image

- Qjpg (Fast JPEG Codec)
- Qgif (Fast AGIF Codec)
- Qmage (UI image Codec)
- AtomJPEG (JPEG Optimizer)

Video

- Atom264 (H.264 Optimizer)
- VXT (Video Crossing Transcoder)

Graphics

- Vrue360 (360 Live Video Stitching)
- Qphoto (Viewer Accelerator)
- Qmeta (Sound & Shot)

Computer Vision

- Machine Eye(MI) (Bank/ID Card recognition)
- Face Detection
- Image & Video Analysis

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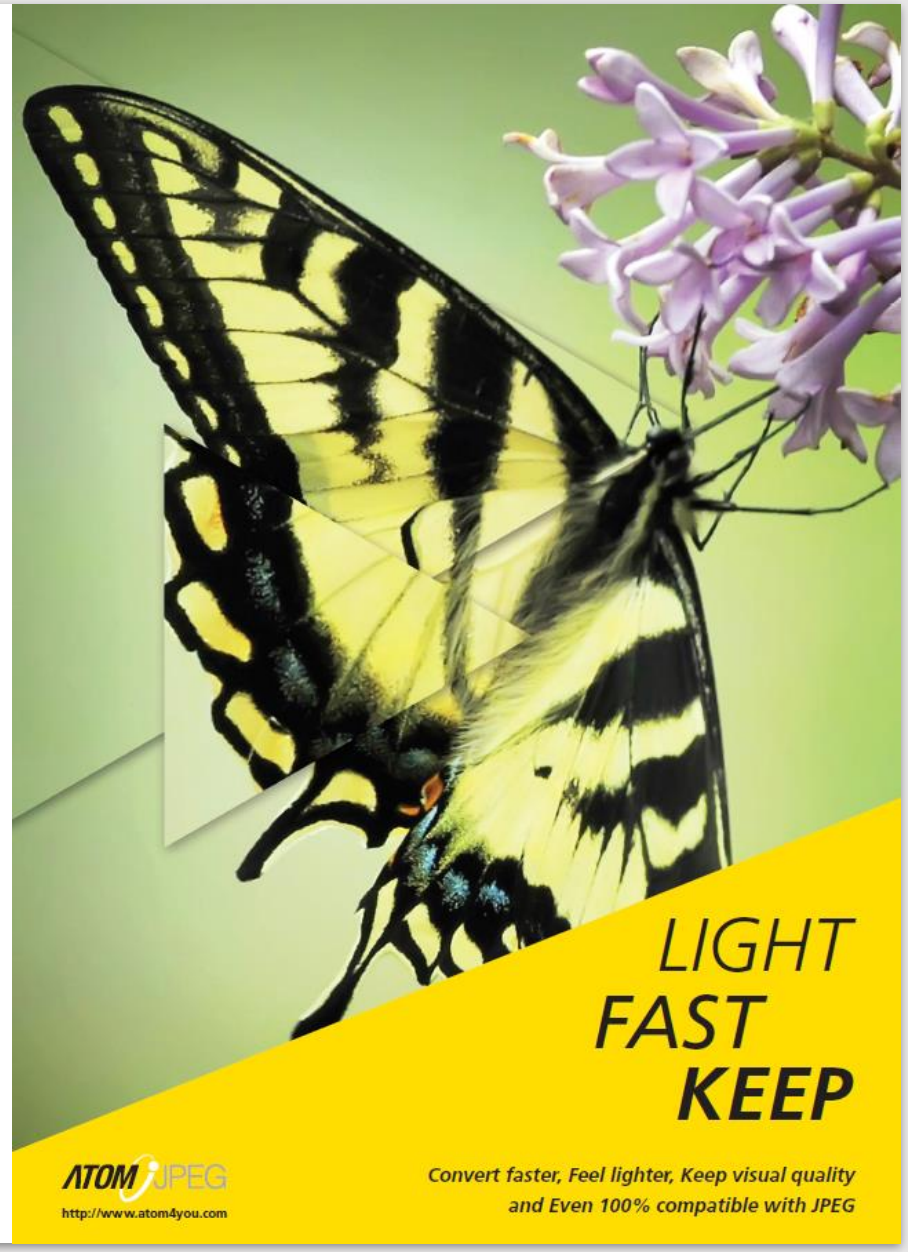
AtomJPEG

Patented Image Optimization

- With AtomJPEG
  - ✓ **Increase** sales because customers will see more products on your web site which allows them to buy more products.
  - ✓ **Save** operating cost because there will be less traffic cost and less storage usage.



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AtomJPEG

Reduces the size of photos by up to 80% while preserving their visual quality and original resolution.

Original JPEG

1558.3 KB

AtomJPEG

5.2x

301.1 KB

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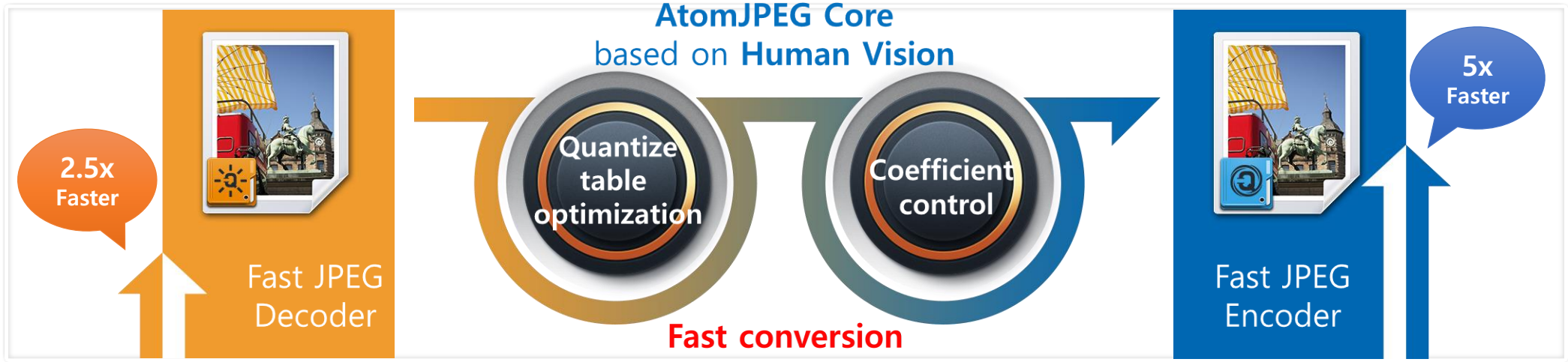
AtomJPEG Features

100% compatible with standard JPEG

Super fast JPEG compression

Keep visual quality

Optimized thumbnails



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AtomJPEG is the Best!!

Original JPEG	AtomJPEG	Competitor
12.5MB	2.5MB	5.6MB

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Atom264

Patented Video Optimization

- With Atom264
  - ✓ **Save** operating cost because there will be less traffic cost and less storage usage.
  - ✓ **Enrich** UX because customers will see higher quality videos.

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Atom264

Reduces the size of H.264 files average 50% without compromising their visual quality.

Original H.264

691 MB

Atom264

178 MB

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Atom264 Features

100% compatible with standard H.264

Higher compression ratio while keeping visual quality

Optimized quality videos at the low bitrate networks

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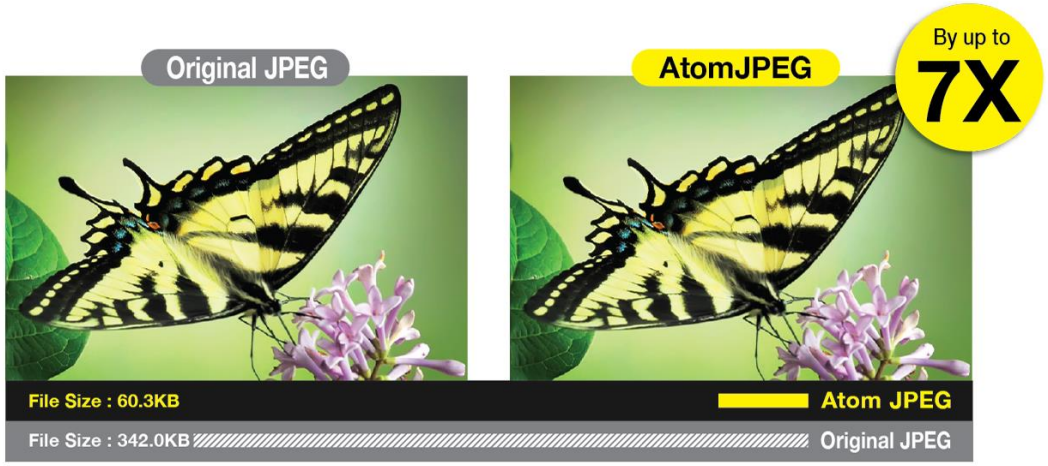
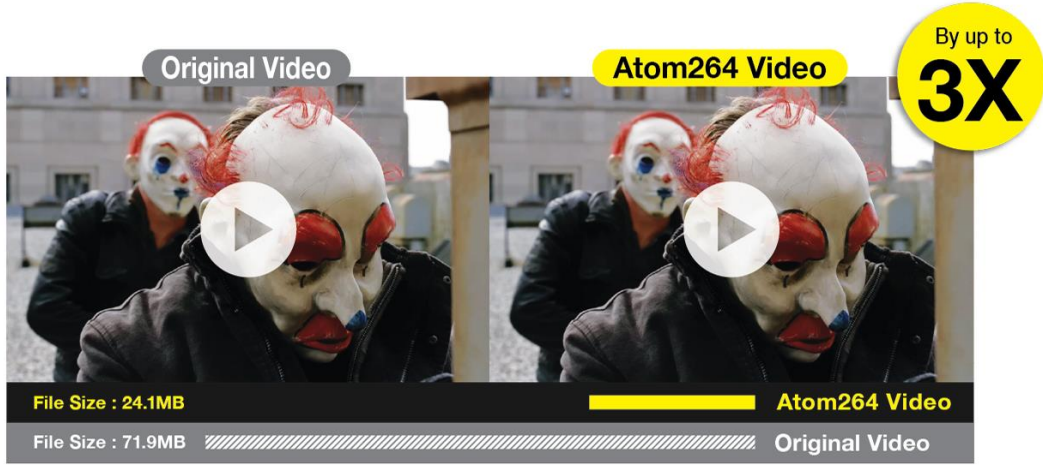
Experience the AtomJPEG

Image recompression solution by up to 7 times without affecting image perceptual quality.

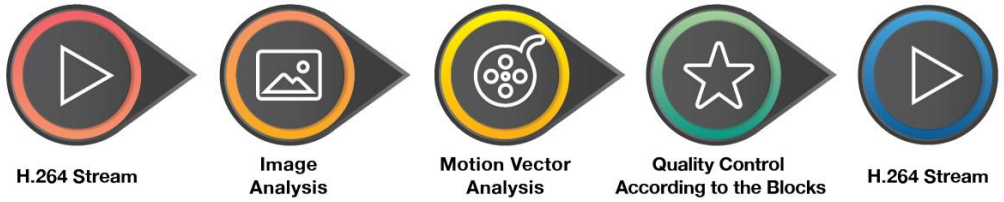


Experience the Atom264

Video recompression solution by up to 3 times without affecting video perceptual quality



Atom264 Core



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VXT (Video Crossing Transcoder)

Real-time Video monitoring solution

- VXT enables continuous monitoring of real-time videos even in unstable and limited network conditions such as satellite communication.
- VXT will solve the problem of the difficulty to transmit seamless real-time videos in a low-band communication network.
- Just locate VXT where you want to send live video data.

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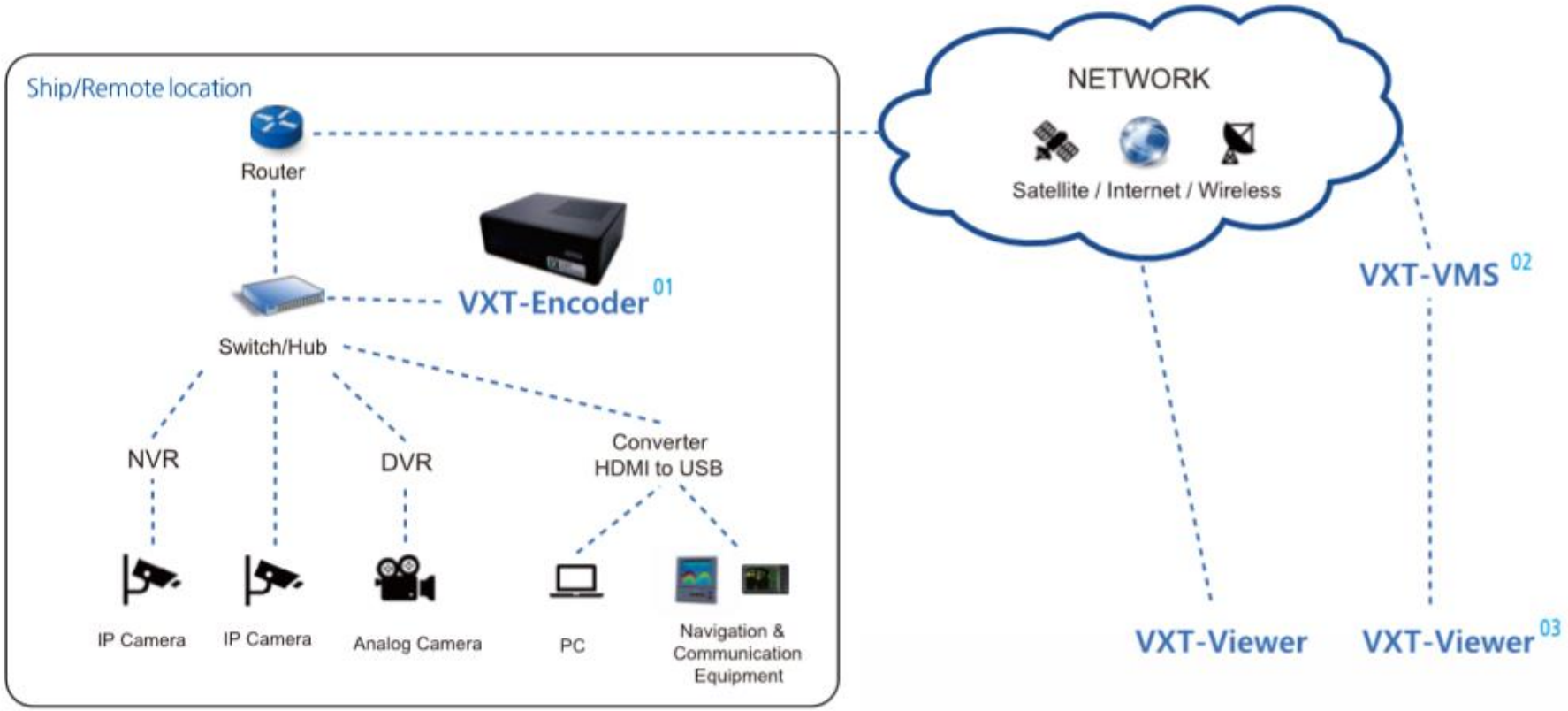
VXT Flow



1. VXT-Encoder: Optimizes and sends videos from various inputs
2. VXT-VMS: Manages all videos from multiple “VXT-Encoder”
3. VXT-Viewer: Plays the optimized videos sent from “VXT-Encoder” or “VXT-VMS”

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VXT Benefits

01 Reduce Network Costs

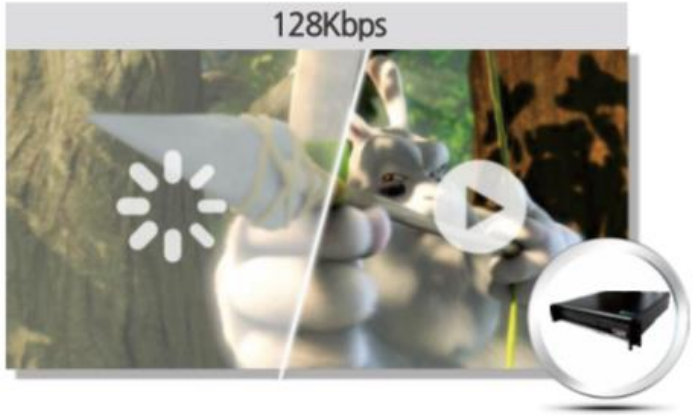
▶ Similar quality video transmission at half of the existing bandwidth

02 Seamless Video Transmission

▶ Seamless video monitoring even in unstable communication network

03 Improve Video Quality

▶ Higher quality video transmission than traditional video over the same network bandwidth



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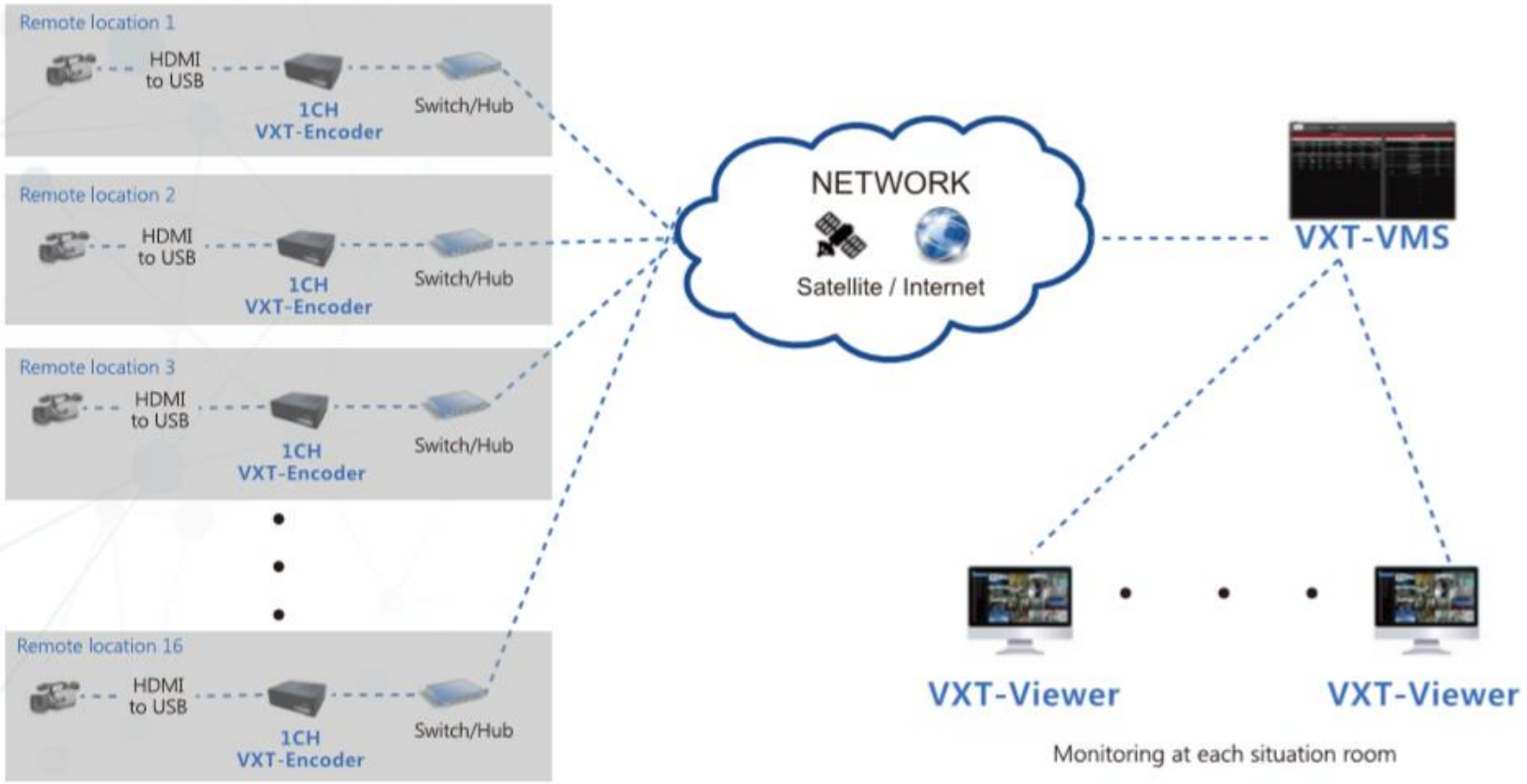
VXT Workflow Example



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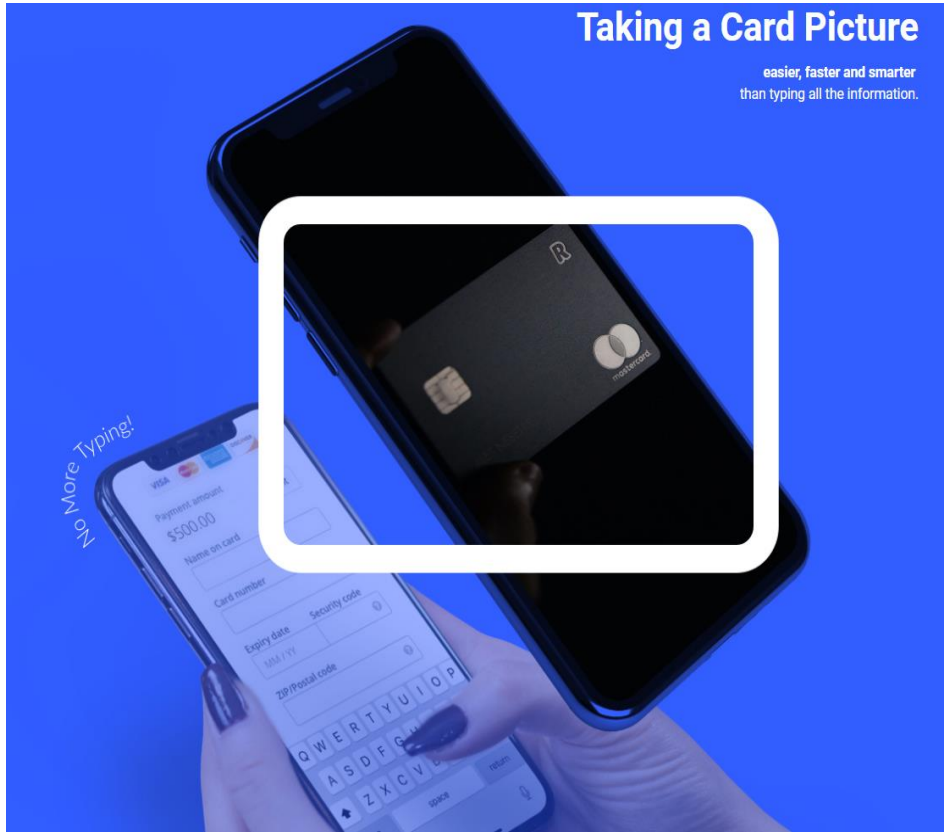
Machine Eye (MI)

Powering easier signup experience

- MI BankCard reads card number, expiration date, and card holder's name of the embossed and printed bank cards captured with a camera.
- MI ID reads verification information on identity documents such as ID cards, passports, and driver's licenses.



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Machine Eye (MI)

Reads valuable information on the various bank cards, identification cards, passports, and driver's licenses.

1

Auto Capture

2

Patent pending preprocess for Speed & Accracy

- Find Card data position
- Correct right reflection
- Reduce image nosie
- Analyze Card format

3

Extract Field data

4

Recognize data

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Machine Eye (MI)

Holds patent pending technologies to cover the followings:

Find a card box for fast and optimal processing

Find the position and pattern of characters to cover various types of cards

Reduce light reflection and background image noise to read verification information more accurately

Keep library size small for efficient and easy integration

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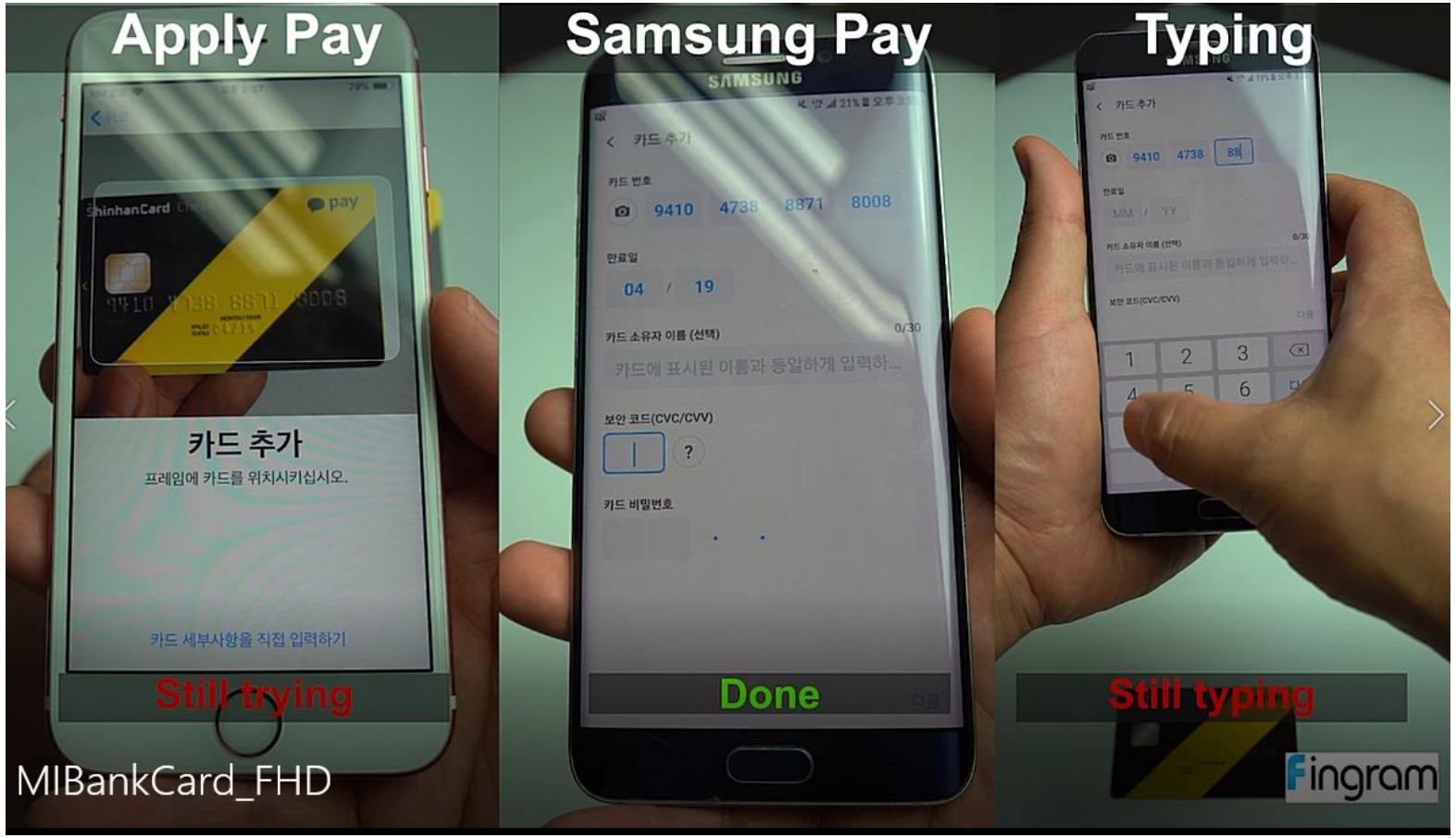
Samsung Pay is the best because of **Machine Eye (MI)**



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Vrue360

360 Video Live Stitching, Streaming & Editing software

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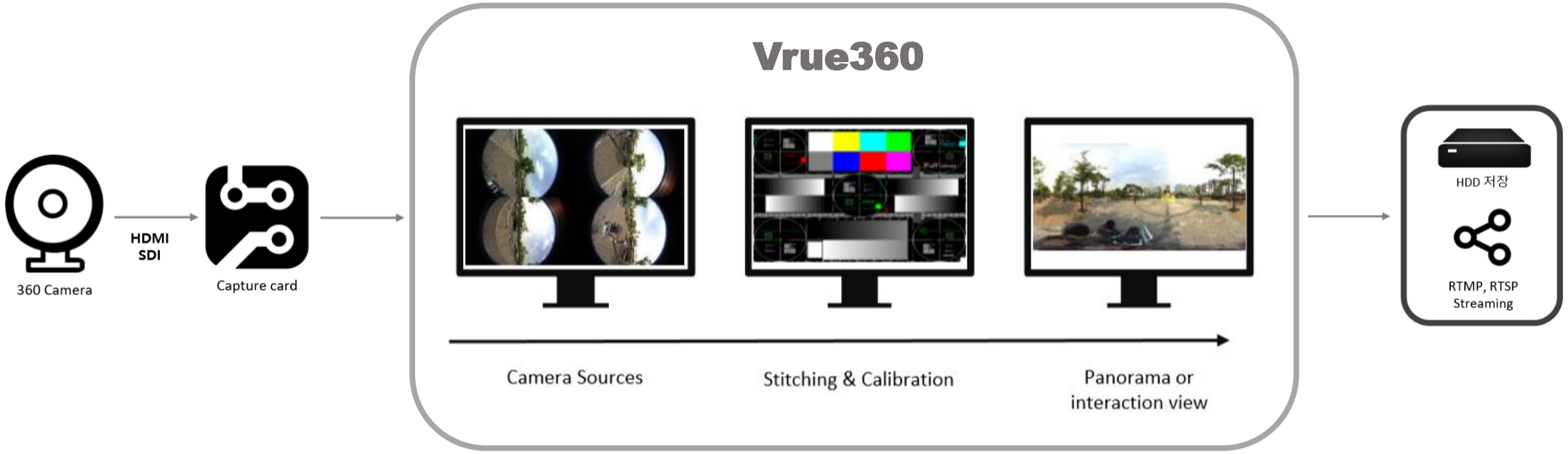
Vrue360

Stitches, streams, and edits multi-channel videos from multiple cameras fixed to the Rig into a single 360 video.



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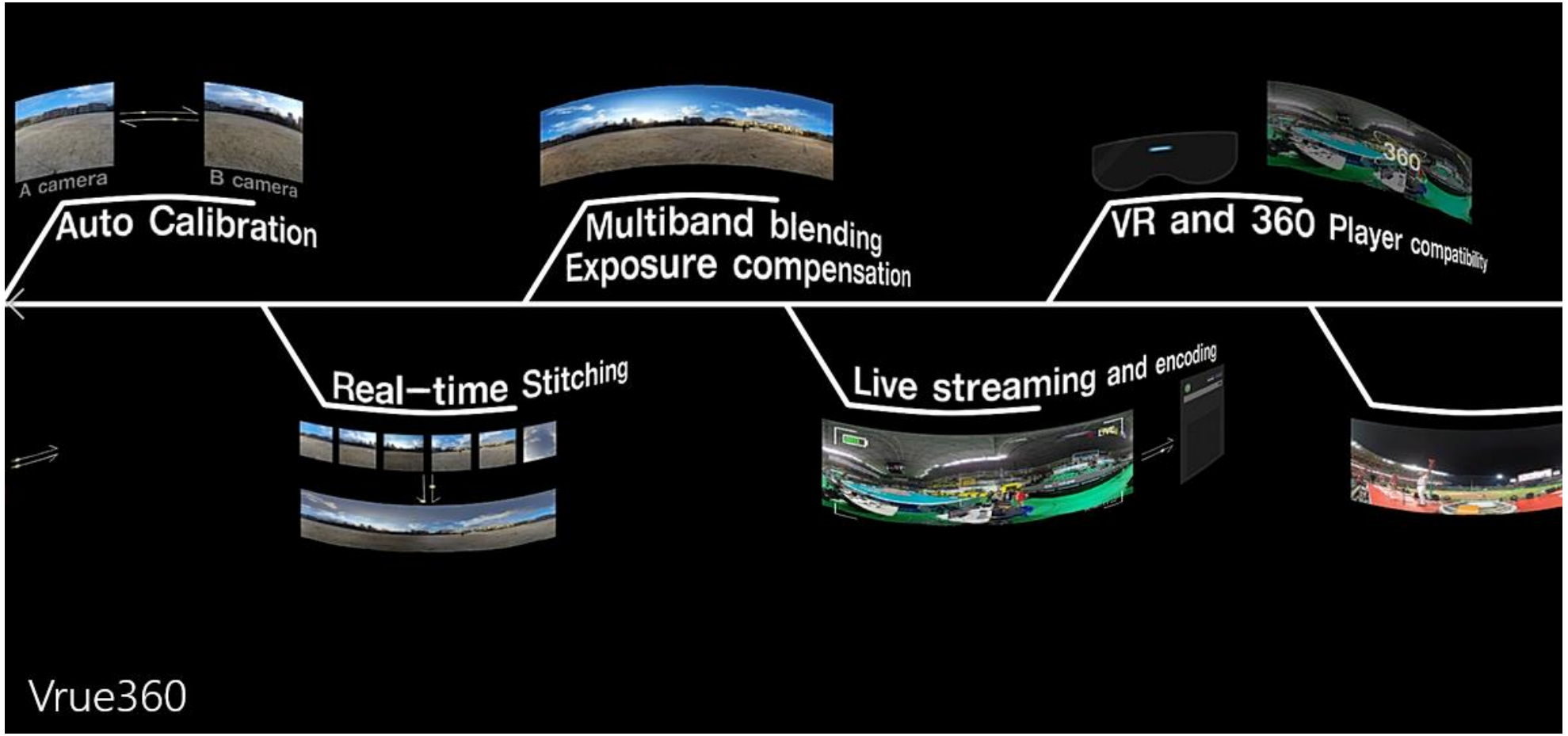
Vrue360 Video



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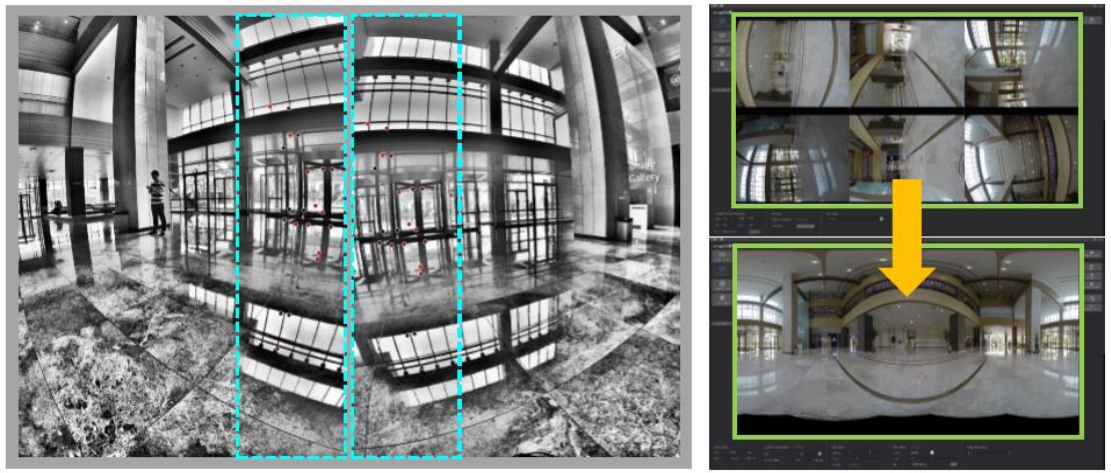
Vrue360 Features

Exposure compensation



Patent-pending Calibration

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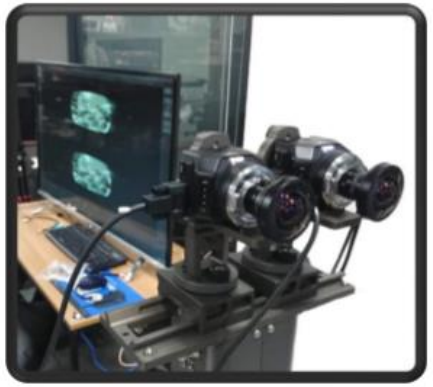
Vrue360

Supports Real-time Stereo 3D 180VR



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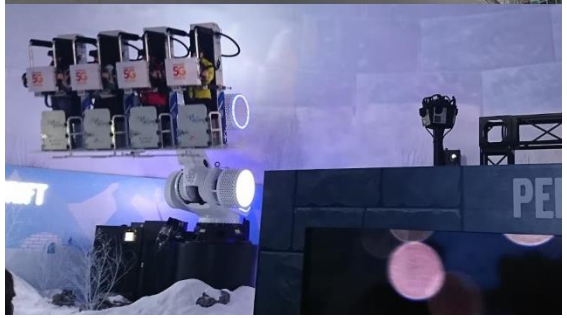
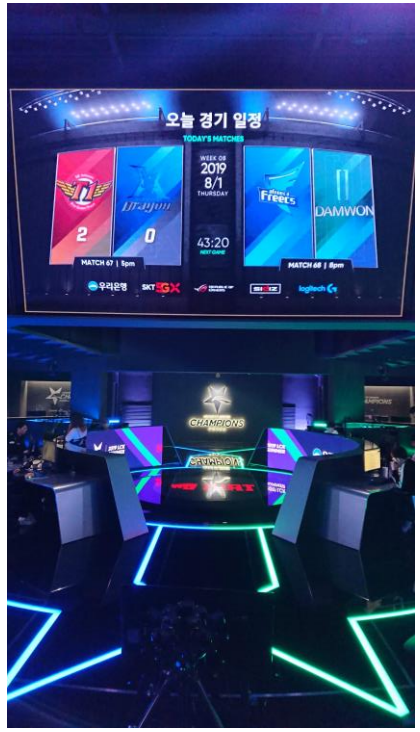
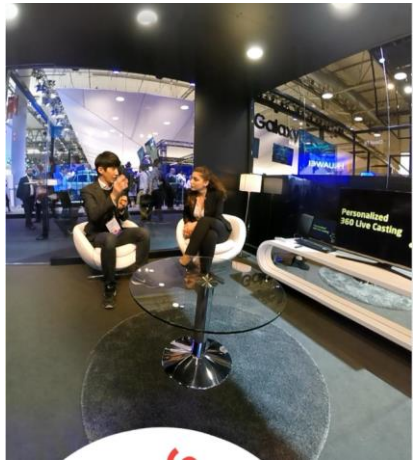
Vrue360 Use Cases







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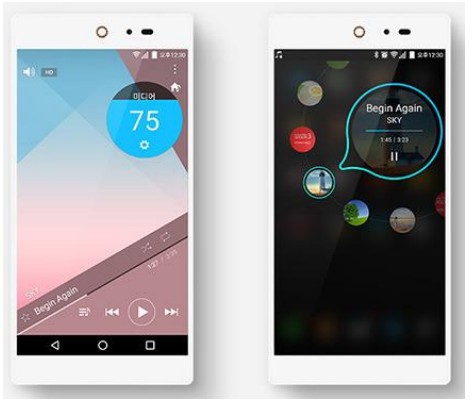
Appendix. Use Cases: Samsung Mobile Division

- ✓ **Qjpg&Qagif(fast image codec), Qphoto, Qmage, Qmeta, and AtomJPEG (image optimizer) Licensing**
- ✓ Applied Applications: Photo viewer(gallery), Image editor, Story album, Dual shot, Live contact, 3rd party app, Power on/off animation, Samsung Themes, various Samsung special shots.



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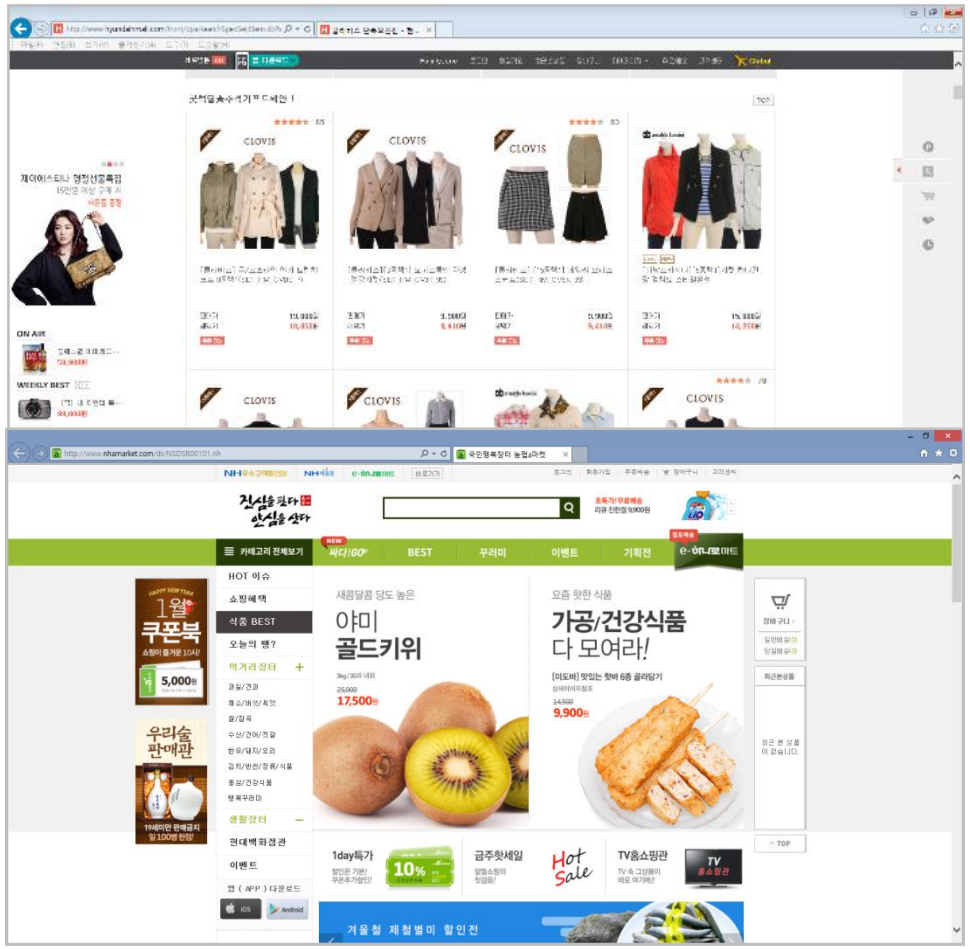
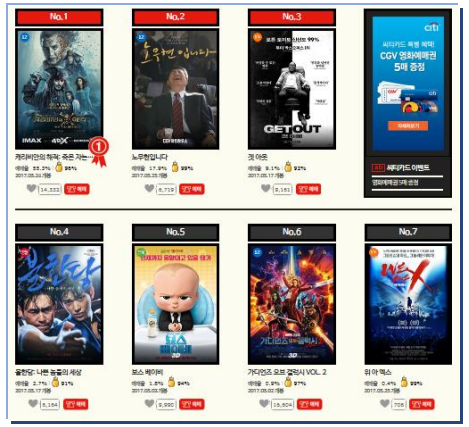
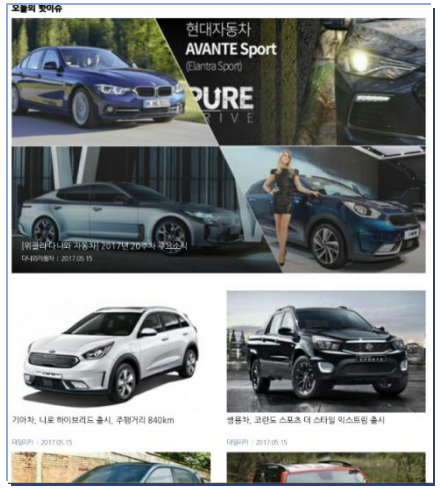
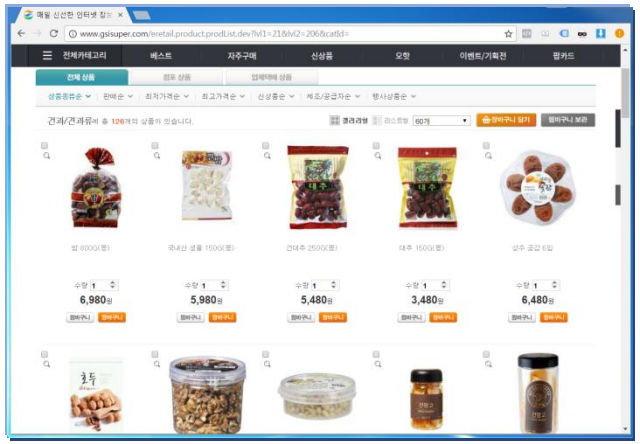
Appendix. Use Cases: Online shopping & Image Rich service

- ✓ **AtomIPS (fast image resizing server solution) & AtomJPEG (image optimizer)**
- ✓ Clients: Hmall, theHyundai.com, NH aMarket, GS Fresh, Lotte Indonesia mall, Toomics, Hyundai Capital









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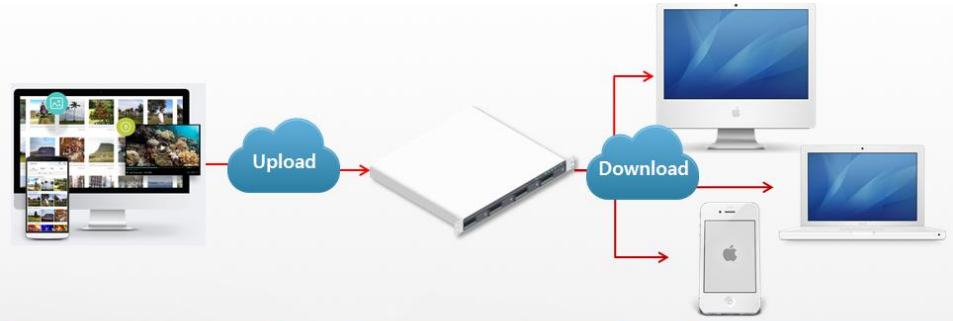
Appendix. Use Cases: Online Education & Telecommunications

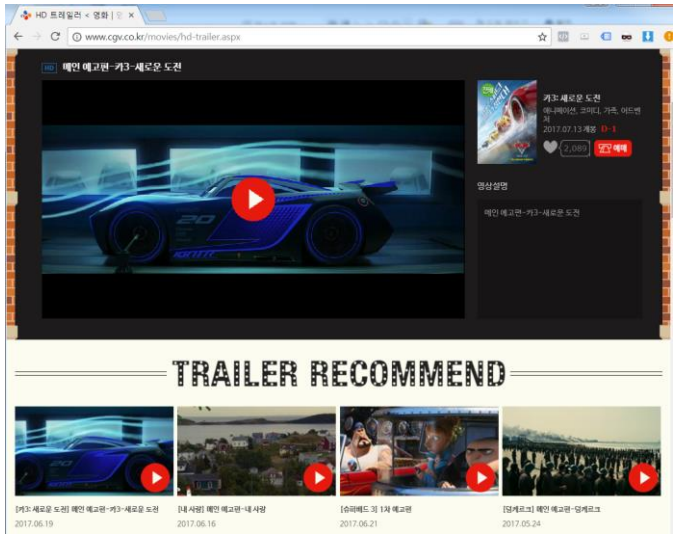
- ✓ **AtomJPEG (image optimizer) & Atom264 (video optimizer) Licensing: Storage savings, Transcoding & size optimization, higher quality contents**
- ✓ **5G VR live broadcasting service with Vrue360**
- ✓ Clients: SKT, LGU+, KT, KBS, Cj CGV, megaMD

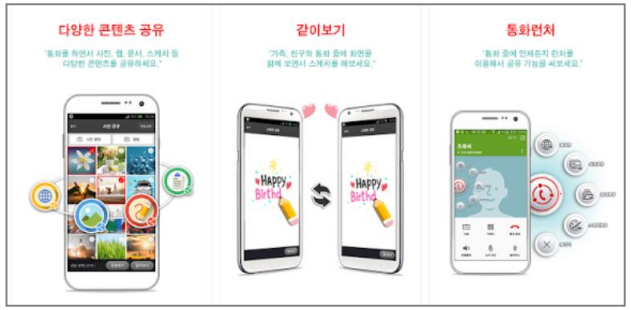


1. 유저가 동영상을 클라우드 서버에 업로드

2. Atom264로 동영상 경량화 진행

3. 다양한 클라이언트 단말에서 경량화 된 스트리밍 & 파일 사용





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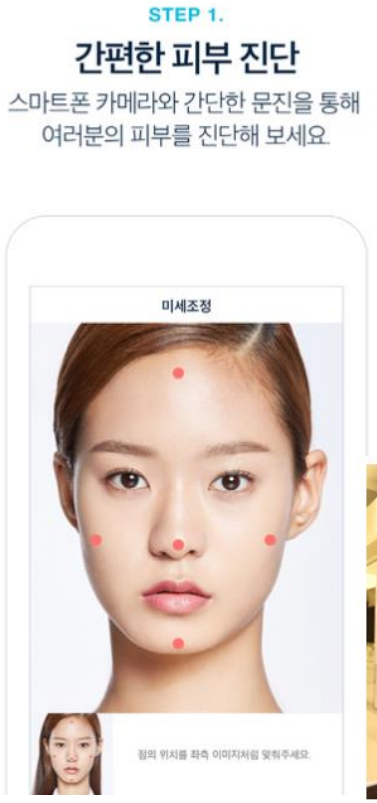
Appendix. Use Cases: Computer Vision solution

- ✓ LGU+ magic mirror, AP beauty tailor, Photo Gray photo booth : Face landmark detection, Facial skin analysis, Face tone
- ✓ Samsung Pay, Payco, ShinHan Card, VP, KTDS, Hyundai motor company, FirstData, XingXing : MI BankCard & MI ID to support easier signup experience



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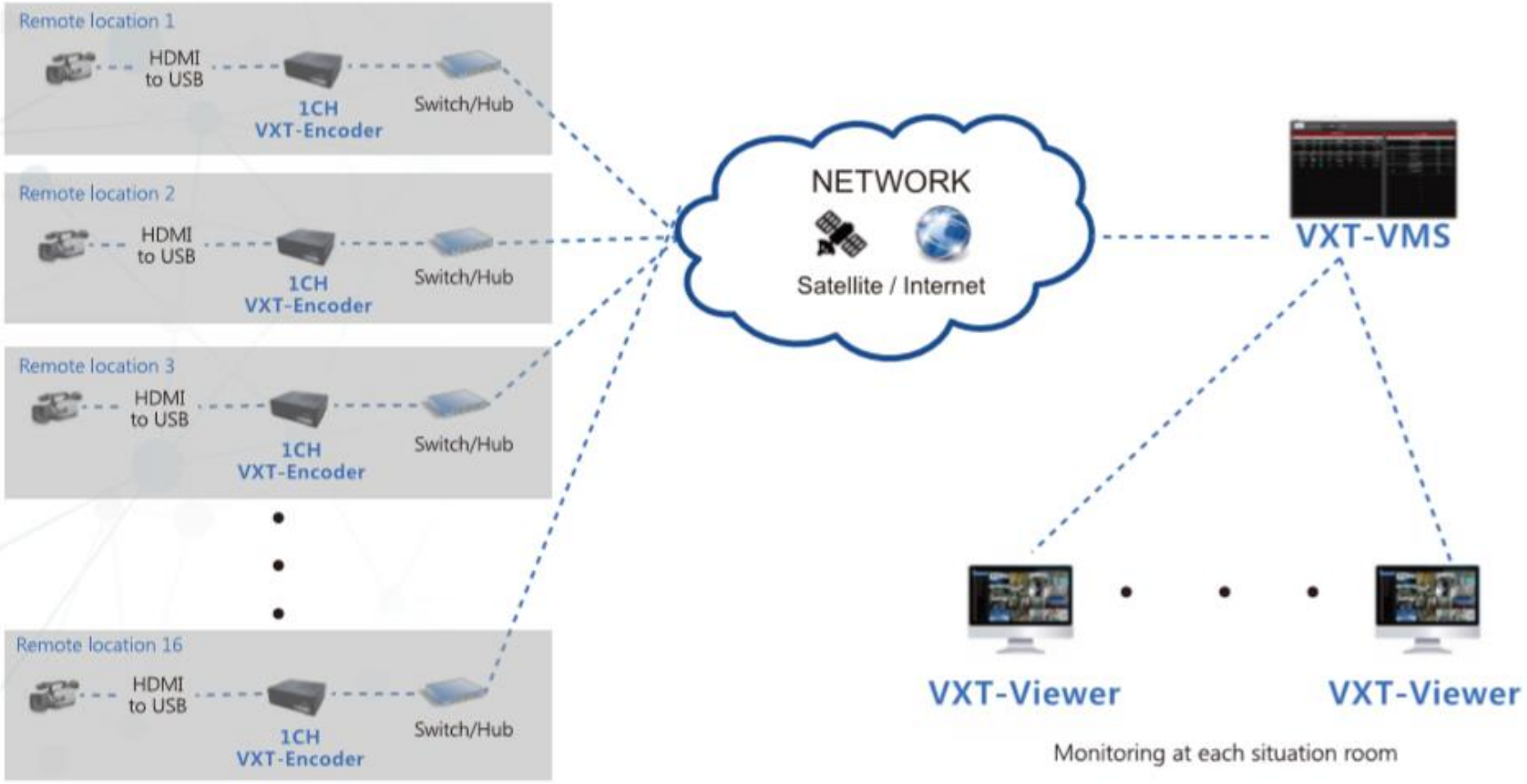
Appendix. Use Cases: VXT(Video Crossing Transcoder)

- ✓ ROK Navy, Hyundai Merchant Marine, Hanshine Electronics, and Marineworks to send real-time videos from ships to HQ
- ✓ ROK Defense Communication Command, ROK Army, and LGU+ to send real-time videos from unmanned bases to HQ



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Appendix. References

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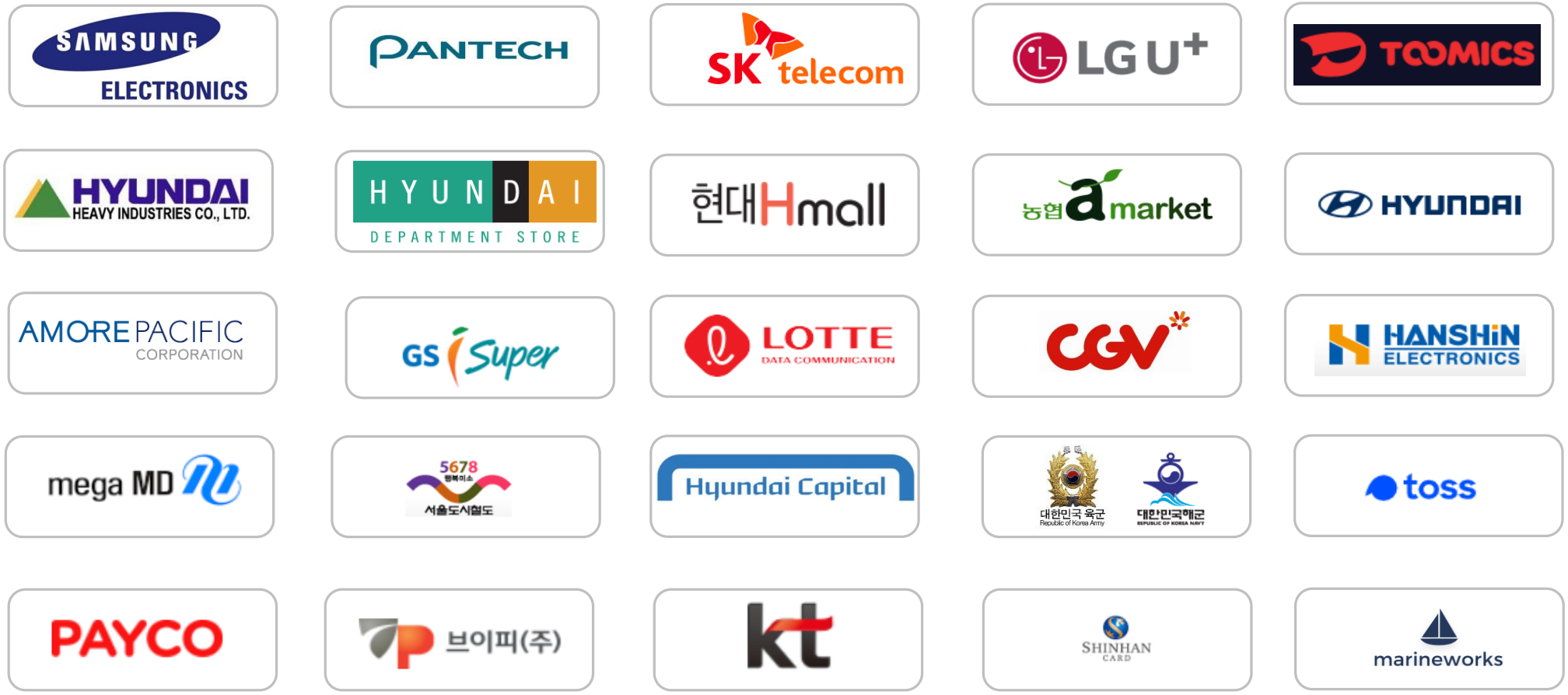

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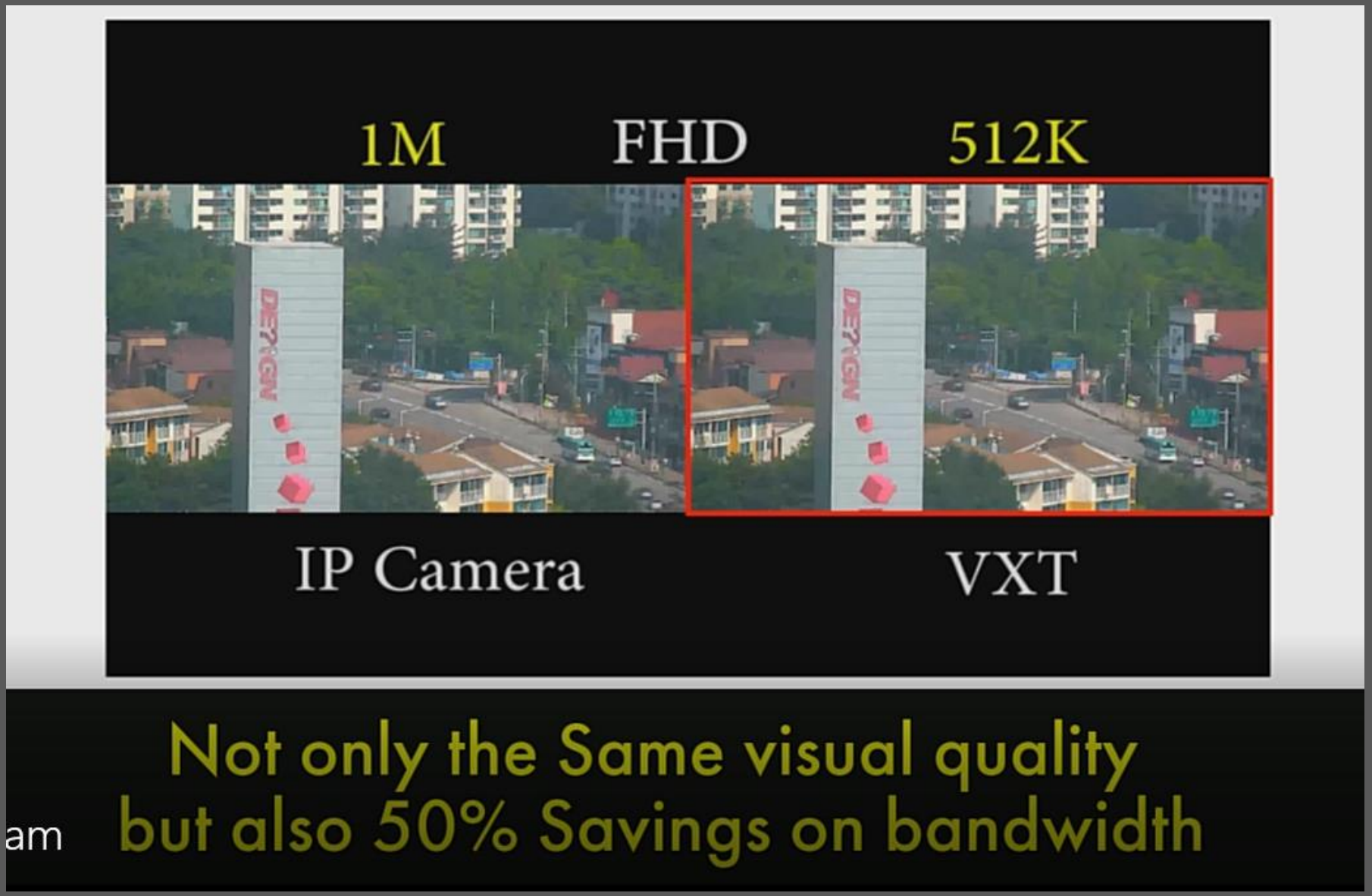
Appendix. Fingram Video



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