

arcules

Camera to cloud



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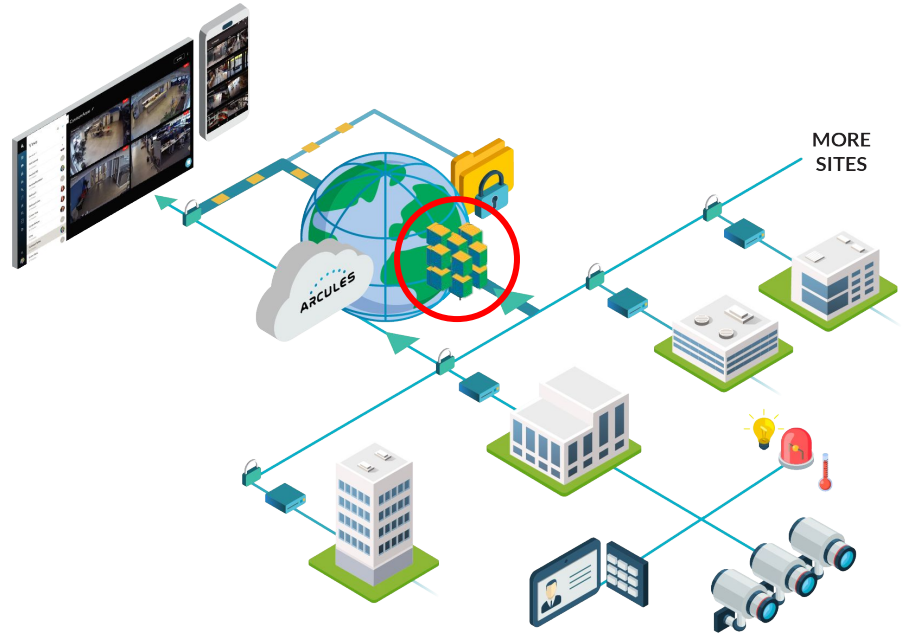
## why cloud?

- Utilize Existing Security Cameras
- No Large Up-Front Cost
- Monitor Multiple Sites on a Single Monitor
- Flexibility (Scale up and down)
- Reduced Hardware Costs
- No Software Management



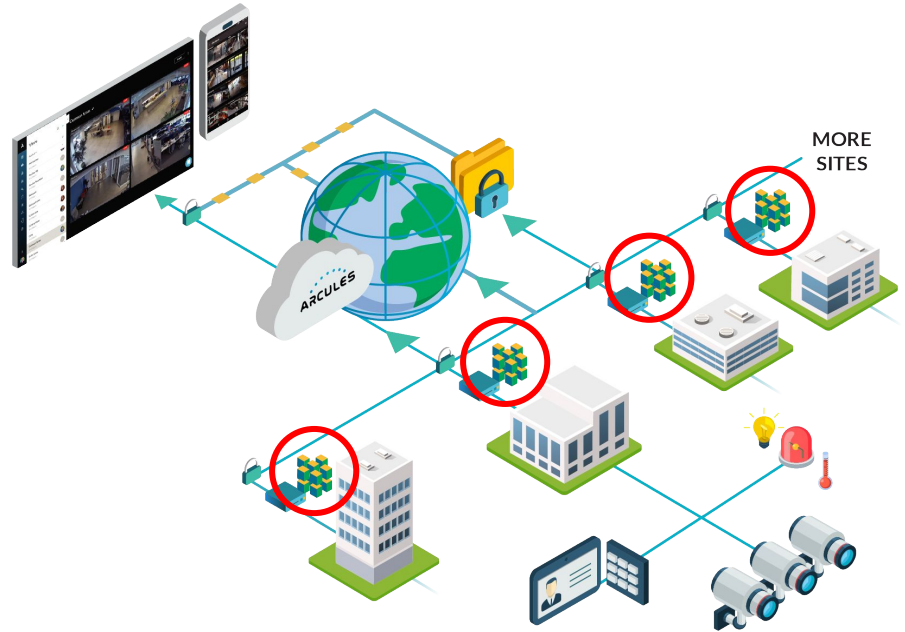
# Arcules Architectures

- Pure Cloud
  - Low latency off-site cloud storage for high redundancy



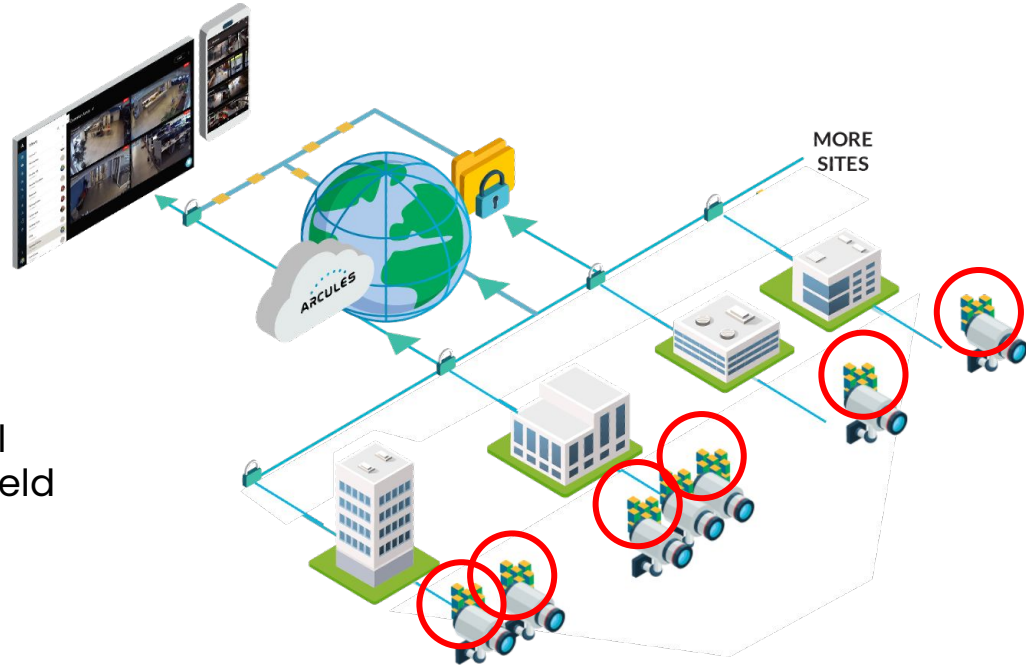
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- Pure Cloud
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- Edge Cloud
  - Local video storage for low bandwidth solutions



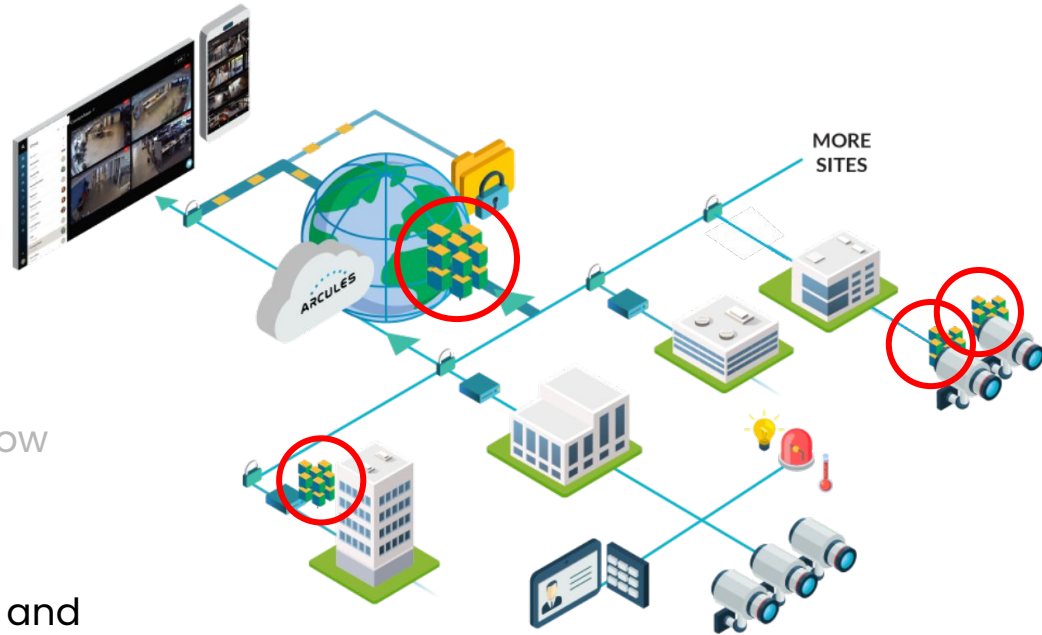
# Arcules Architectures

- Pure Cloud
  - Low latency off-site cloud storage for high redundancy
- Edge Cloud
  - Local video storage for low bandwidth solutions
- Camera to Cloud
  - Satellite or regional locations, small camera count sites, all new greenfield opportunities



# Arcules Architectures

- Pure Cloud
  - Low latency off-site cloud storage for high redundancy
- Edge Cloud
  - Local video storage for low bandwidth solutions
- Camera to Cloud
  - Satellite or regional locations with low camera count, all new greenfield
- Mix and Match
  - Mix and Match architectures within and between locations to best meet your needs

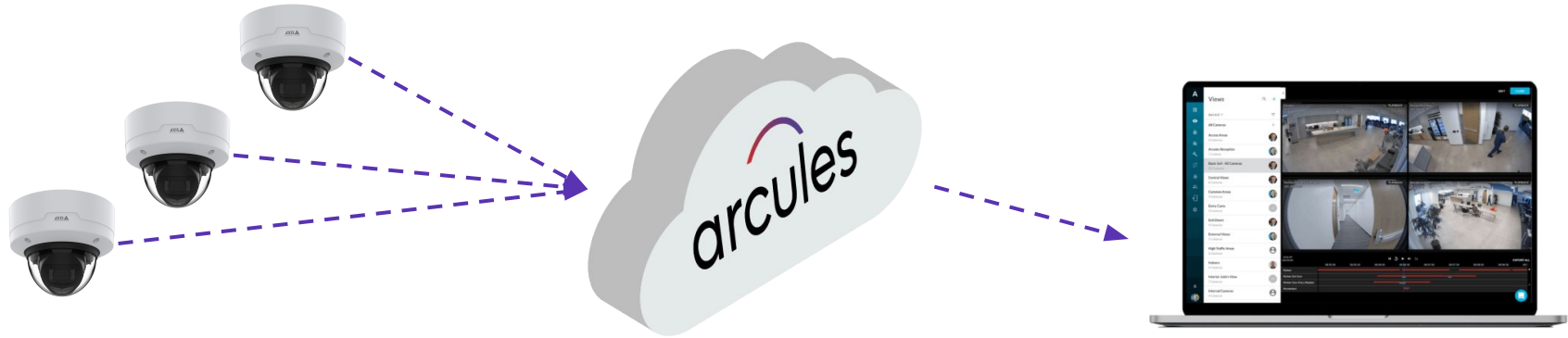




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# Camera to Cloud Details

# Basics of Camera to Cloud



## On Axis camera

- Video streaming (local)
- Video storage
- Video analytics

## On cloud

- Video streaming (cloud)
- Video Analytics for timeline, search, widgets, and rules/alarms
- Cases / exports

## User interface

- Same UX
- Video playback, analytics, alarms, etc.



# why? camera to cloud

## Lower bandwidth

- video storage on the camera results in more bandwidth available for other business critical applications

## Seamless Integration

- Camera to Cloud capabilities integrate seamlessly with the Arcules VSaaS providing the ability to view video, react to alarms and investigate events anytime, from anywhere.

## Edge Computing

- The Arcules camera to cloud ACAP application leverages Axis' superior camera design, utilizing it's edge computing to expand our AI object detection and forensic search capability.

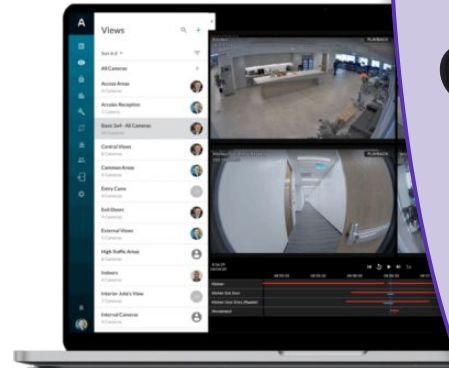
## More choices

- Camera to Cloud, provides an additional deployment choice to meet varying budget, bandwidth and site considerations. Choose from pure cloud, edge cloud, camera to cloud or mix and match.

## FEATURES

# Camera to cloud

- No gateways required (“serverless”).
- Works with select Axis ARTPEC-8 cameras
- Requires installation of Camera to Cloud ACAP & SD card
- Axis cameras can be bought/installed through partners (Or use existing cameras)
- Object detection is performed on the camera
- Works with Forensic Video Search
- Continuous recording on camera SD card
- Includes new object timeline view
- Customers can mix & match per location









## detailed features

- 30 days fixed video retention
- configurable recorded stream
- 1080p 10 FPS live stream
- local access to Axis OS for advanced users
- Axis Object Analytics (AOA) people and vehicle detection
- JP/EU/US data center support
- 12+ Axis settings in Arcules portal



# camera to cloud models

Model	Style	Resolution	Variants*	Recommended Storage*	Image
AXIS P3267 Series	Indoor/Outdoor Dome	5 MP	LV, LVE	512 GB	
AXIS P3268 Series	Indoor/Outdoor Dome	8 MP	LV, LVE	1024 GB	
AXIS Q1656 Series	Indoor/Outdoor Box	4 MP	B, BE, BLE, LE	512 GB	
AXIS P1467 Series	Outdoor Bullet	5 MP	LE	1024 GB	
AXIS P1468 Series	Outdoor Bullet	8 MP	LE	1024 GB	
AXIS Q3538 Series	Outdoor Dome	8 MP	LVE	1024 GB	

\*Camera-to-cloud solution requires the use of an SD Card for video storage.

\*\*B-Barebone, E-Outdoor Ready, L-LED illumination, V-Vandal Resistant

AXIS Surveillance SD Cards



# Why Camera to Cloud today?

- Local storage
- Decentralized risk
- “No servers” mentality
- Movement to cloud

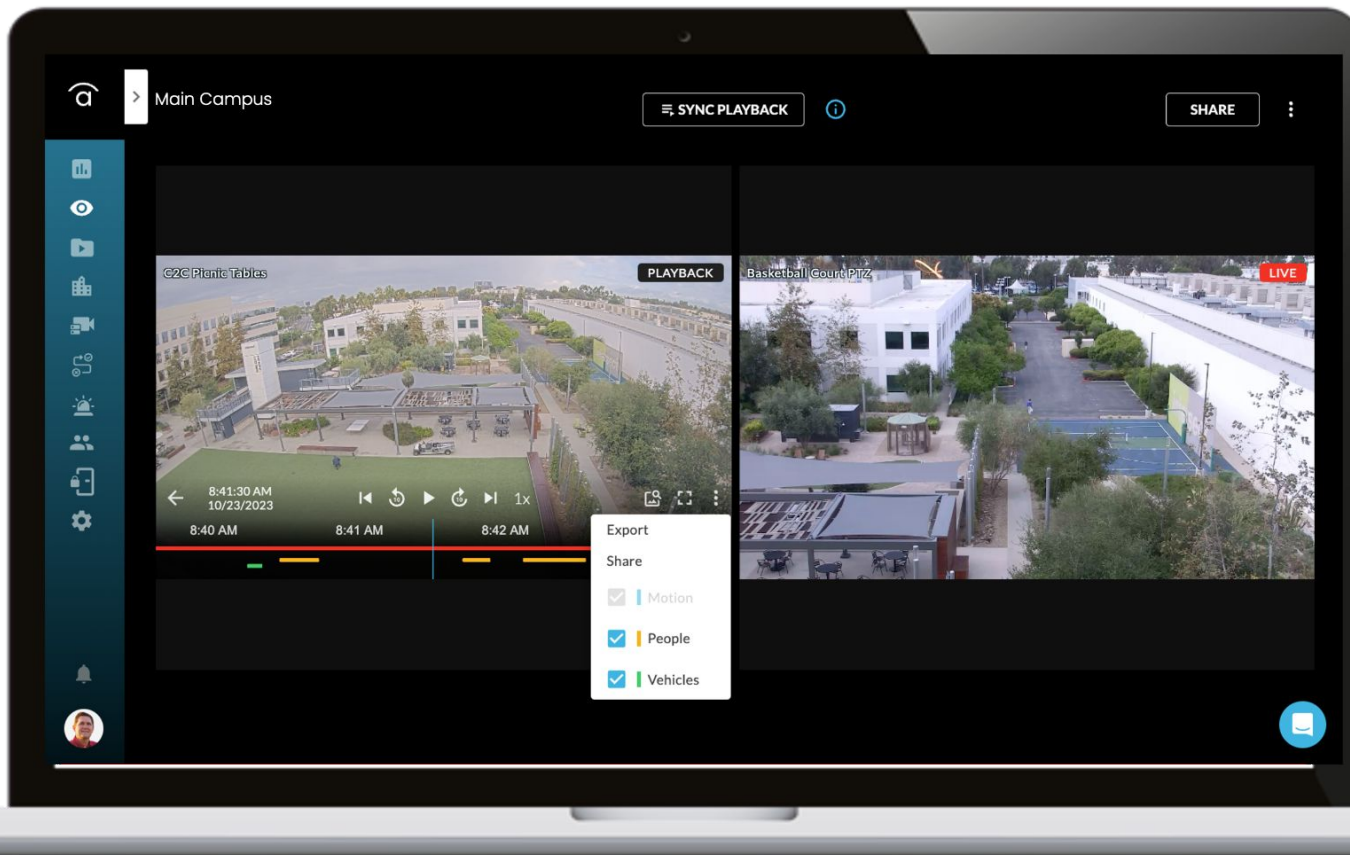


## KEY CONCEPTS

# Why is Arcules Different?

- Unlocked devices
- Premium cameras
- Power of Axis + Ease of Arcules
- Enterprise solution
- CX + Service





# Customer Examples

## **Financial Services Company**

*~300 sites, 3-4 cameras/site  
New installs (Greenfield)*

- Using Axis cameras at HQ
- Milestone at HQ, Arcules at sites
- All small sites need new cameras

## **Regional Retailer**

*~150 sites, 25-35 cameras/site  
Brownfield+Greenfield*

- On prem VMS hardware EOL – moving to cloud
- Using Axis cameras at multiple sites
- Camera to Cloud AND pure cloud



# Customer examples



## City/County

*~1000 cameras  
Brownfield*

- Existing Axis camera
- Competitive camera to cloud - dismissed due to closed system
- Arcules Camera to Cloud allows ease of transition



## Medical clinics

*~100 sites, 10 cameras/site  
Brownfield+Greenfield*

- Many disparate cameras (Vivotek, Hanwha, others)
- Arcules Camera to Cloud allows ease of transition
- Camera to Cloud AND pure cloud

# Top FAQs

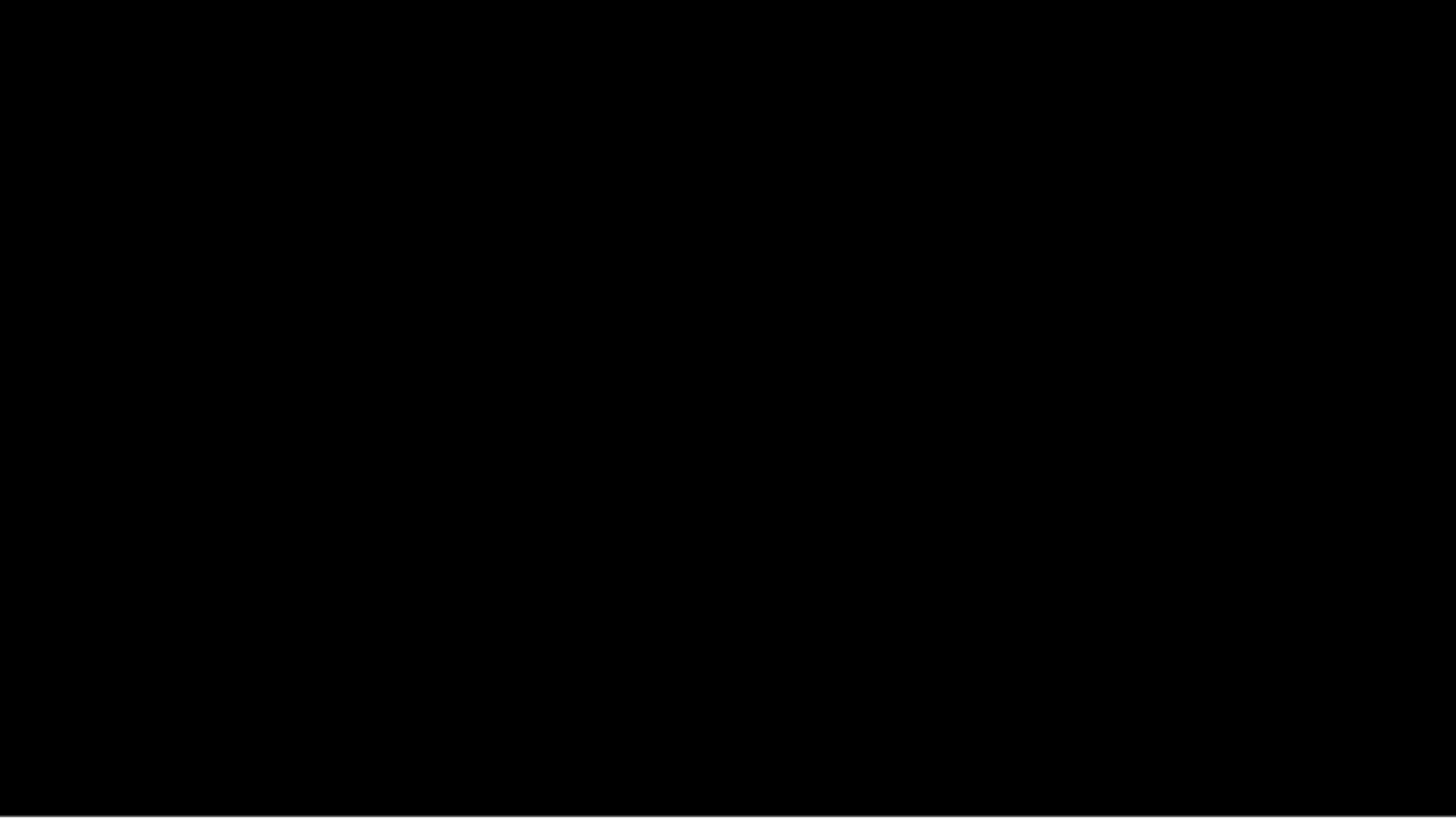
- If I am already an Arcules customer, can I expand with Arcules camera to cloud? - **YES**
- Does camera to cloud allow for cloud storage? - **NO**
- Is the video stored on the camera encrypted? - **YES**
- Can I use an existing Axis cameras that I own? - **YES**
- Where can I purchase camera to cloud cameras? - **Integrators & Dealers (Not Arcules)**
- What types of video analytics will be available? - **Classification, Alarming, Forensics (no color)**
- Is video analytics an extra charge? - **NO**
- Will camera to cloud be able to utilize on-camera I/O capability? - **NO\***
- Can a current user migrate a cloud-based subscription from an existing camera to a camera to cloud subscription? - **YES, at end of current subscription**
- Do camera to cloud cameras become locked? - **NO**
- Is camera to cloud wireless or does it still require a network switch? - **NO, switch required**
- Will local live and local live playback be available on camera to cloud devices? - **YES**
- Will camera to cloud be released to all regions? - **YES**

The Arcules logo features a white arc above the word "arcules" in a lowercase, sans-serif font. The entire logo is centered within a large black circle that is surrounded by a vibrant purple and pink glow against a dark, starry background.

arcules

thank you  
learn more at [arcules.com](https://www.arcules.com)

**Canon**  
CANON GROUP



**Reference / Alternate Slides**

## other considerations

- Cost
  - Crossover point when dealing with many cameras.
- Access Control
  - Gateway is required when using *Axis Access Control*, but not *Genea* & *IMRON* integrations.
- Video Storage
  - Stored at edge (Release 1).
  - Case video resides in the Cloud.
- Video Analytics
  - Forensic Search by Region, Enhanced Timeline, Alarming on Classified Objects (Release 1)
  - Forensic Color (Release 2)



# TIMELINE VIEW



## People / vehicle detections

Jump to previous detection

Return to live view

 Recorded video

Detections:

-  Motion
-  People
-  Vehicles

Video playback indicator

Jump to next detection

Drop down menu to select detection type

Option not available (grayed)

Enable detection timeline view

# Why Arcules?



- Unlocked devices: *Hostage-as-a-Service*
- Premium cameras: *not locked Vivotek or simple Cisco*
- Enterprise: *how can locked ecosystems handle transition plans?*



- Open-first: *deep VAPIX and ONVIF support*
- Customer experience: *Embedded chat*
- Enterprise: *XProtect hybrid deployments*



- Premium cameras: *not Sunell OEM lol*
- Ease-of-use: *cloud-native not VMS-in-the-cloud*
- Enterprise: *we run on GCP, backed by Canon*



# Kit Option

- Services Provided through Wesco
- Single P/N Includes
  - Cameras installed SD cards
  - Configuration & ACAP installation complete



# INTELLIGENT VIDEO



<b>MOTION VIDEO SEARCH</b>	Used for recorded video data	Available with Cloud & Edge Gateways and Camera to Cloud	Requires 1 video stream	Used to create alarms and notifications	Enabled by clicking on the <u>video search icon</u> in the player	Allows <u>motion search</u> in a user-defined area of interest	Color and object filtering option is <u>not available</u>
<b>FORENSIC VIDEO SEARCH</b>	Used for recorded video data	Available with Cloud Gateways and Camera to Cloud (Not available on Edge)	Requires 1 video stream	<u>NOT associated with alarms or notifications</u>	Enabled by clicking on the <u>video search icon</u> in the player	Allows <u>object search</u> by vehicle or person and by region of interest	Refine search by area of interest and/or color <sup>1</sup>
<b>CLOUD VIDEO ANALYTICS</b>	Used for <u>REAL-TIME</u> video	Available with Cloud Gateways	Cloud Requires <u>2 video streams</u> (1 continuous)	Used to create alarms and notifications	Enabled through cloud analytics set up, then placed as part of an alarm rule	Counting, People/Vehicle Detection, Blur/Rotation Detection used as <u>triggers or heatmaps</u>	Color filtering option is <u>not available</u>
<b>DEVICE / EDGE VIDEO ANALYTICS</b>	Used for <u>REAL-TIME</u> video	Available with Camera to Cloud (Not available on Edge Gateways)	Requires 1 video stream	Used to create alarms and notifications	Enabled through analytics set up menu, then placed as part of an alarm rule	Counting, People/Vehicle Detection, Detection used as <u>triggers or heatmaps</u>	Color filtering option is <u>not available</u>

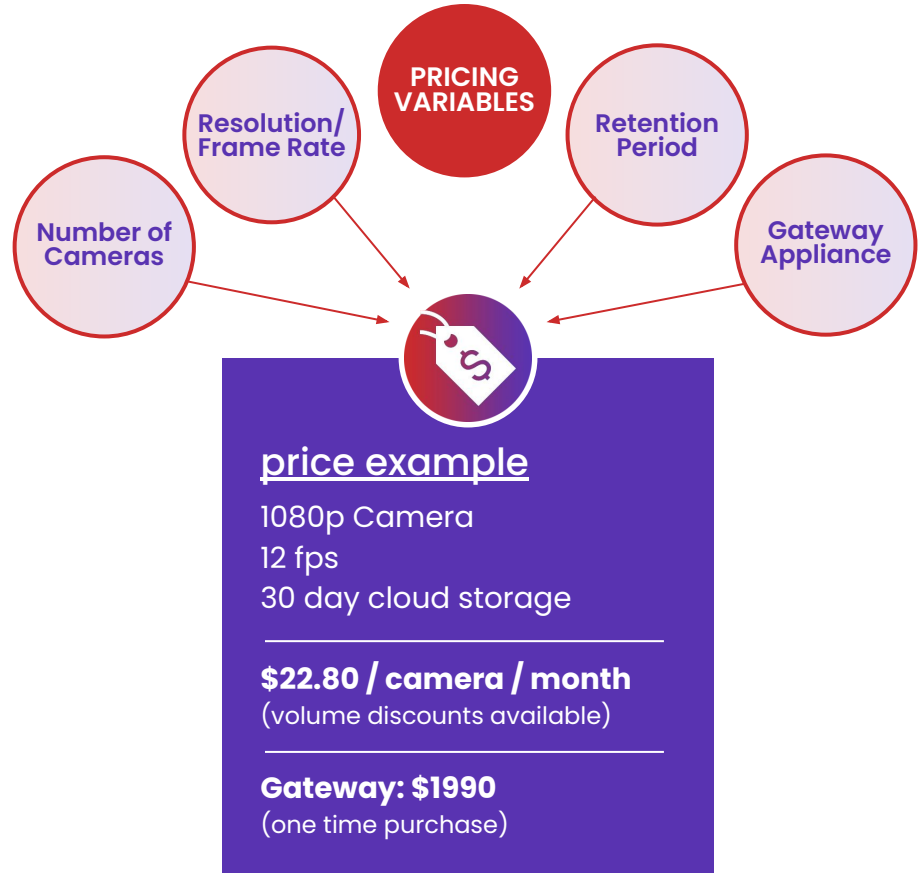
# subscription model

## standard features

- Cloud VMS
- AI Forensics Search
- Dashboards
- Notifications
- Evidence Sharing
- Upgrades
- Unlimited Users
- Support

## options

- Site-specific hardware and software
- Siloed video data
- AI Cloud Analytics
- Volume Pricing
- Door Access Control
- Continuous Recording



## CAMERA TO CLOUD

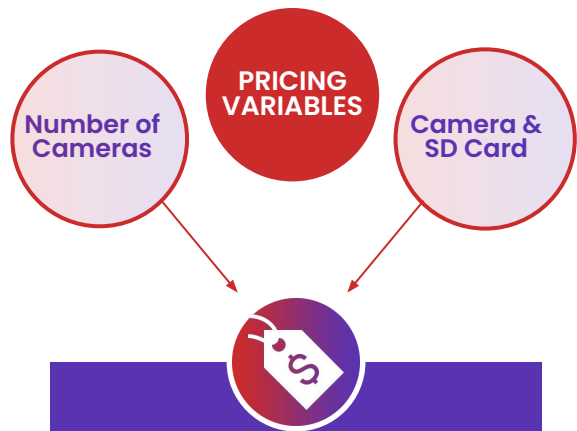
# subscription model

## standard features

- Cloud VMS
- AI Forensics Search
- Dashboards
- Notifications
- AI Analytics
- Continuous Recording (SD Card)
- Evidence Sharing
- Upgrades
- Unlimited Users
- Support

## Options

- Axis ARTPEC-8 Camera (Purchased through integrator / dealer)
- Volume Pricing



### price example

1080p Camera  
 10 fps (to cloud)  
 Continuous recording  
 (On-camera SD card)

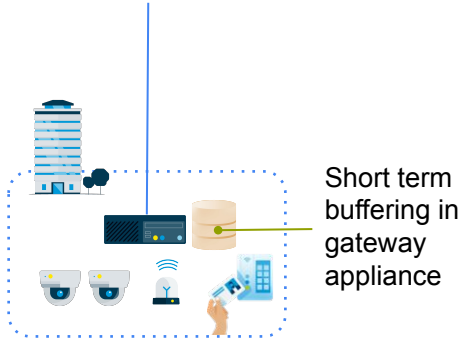
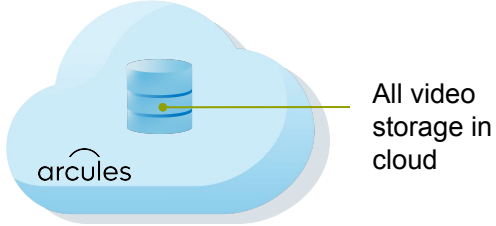
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**\$9.95 / camera / month**  
 (volume discounts available)

**Axis Camera & SD card:**  
**\$1000- \$2700**  
 (one time purchase)

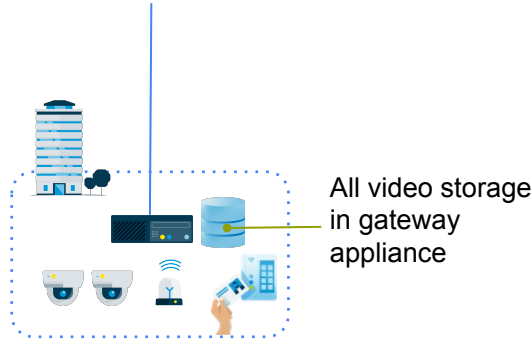
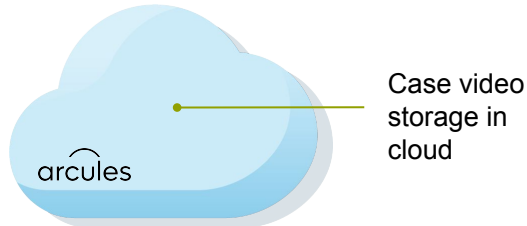


## CLOUD STORAGE



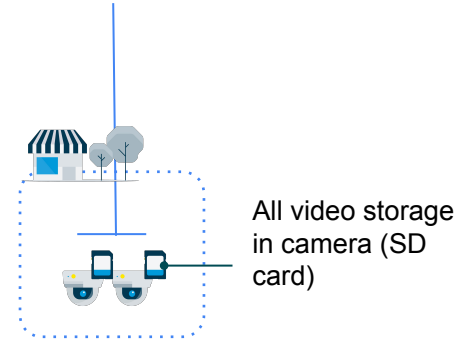
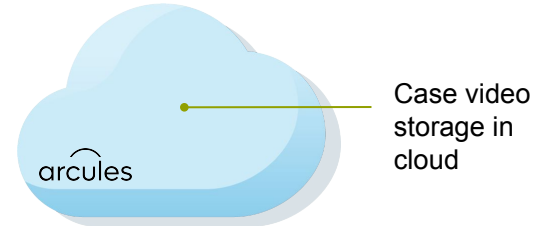
Best for locations with **unconstrained** Internet access and/or need for redundancy

## EDGE STORAGE

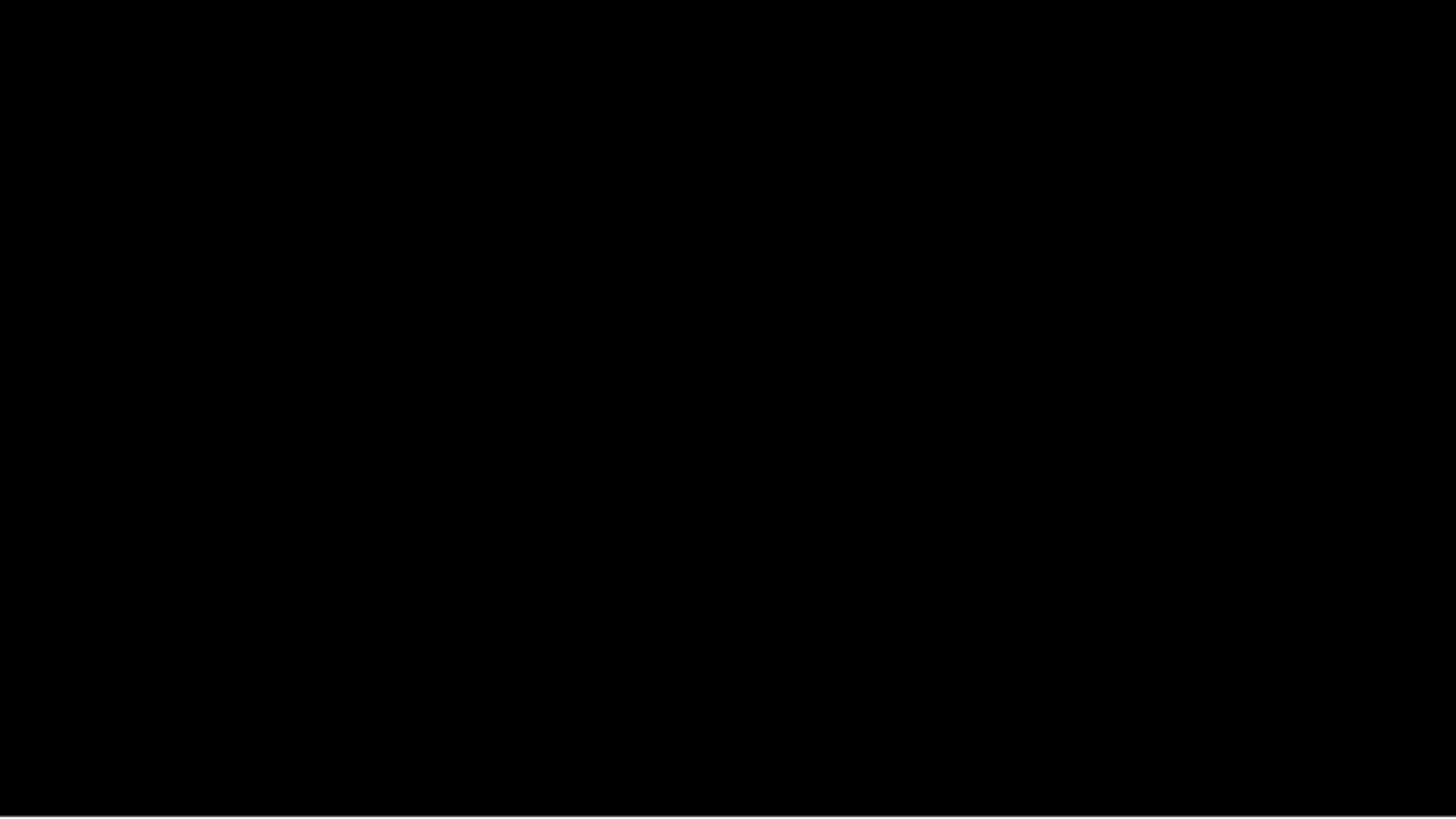


Best for locations with **constrained** Internet access

## CAMERA TO CLOUD



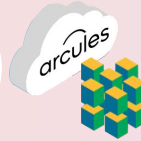
Best for greenfield locations and/or where **onsite hardware is impractical**



# cloud, edge, or hybrid

- Built on Google Cloud for security, scalability & low latency
- Storage options for low bandwidth & high redundancy
- Mix-and-match for the best of both worlds
- Keep your own cameras. Support for ~6000 models

PURE CLOUD



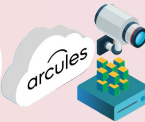
Low latency, offsite cloud storage for high redundancy

EDGE CLOUD



Local video storage for low bandwidth situations

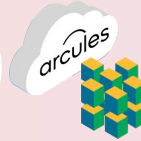
MIX & MATCH



Pure Cloud for critical cameras; edge for the rest

# cloud, edge, camera to cloud or hybrid

- Built on Google Cloud for security, scalability & low latency
- Storage options for low bandwidth & high redundancy
- Mix-and-match for the best of both worlds
- Keep your own cameras. Support for ~6000 models
- **Serverless option**



Low latency, offsite cloud storage for high redundancy



Local video storage for low bandwidth situations



Camera to cloud for low camera count locations

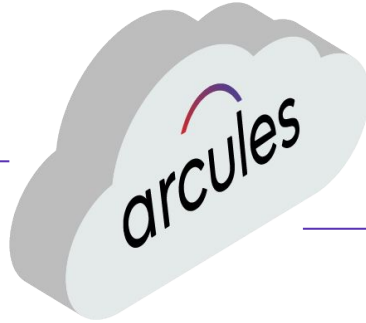
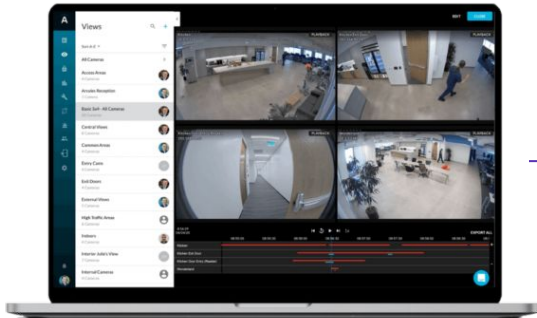


Pure Cloud for critical cameras; edge for the rest



# what is camera to cloud?

## Pure Cloud



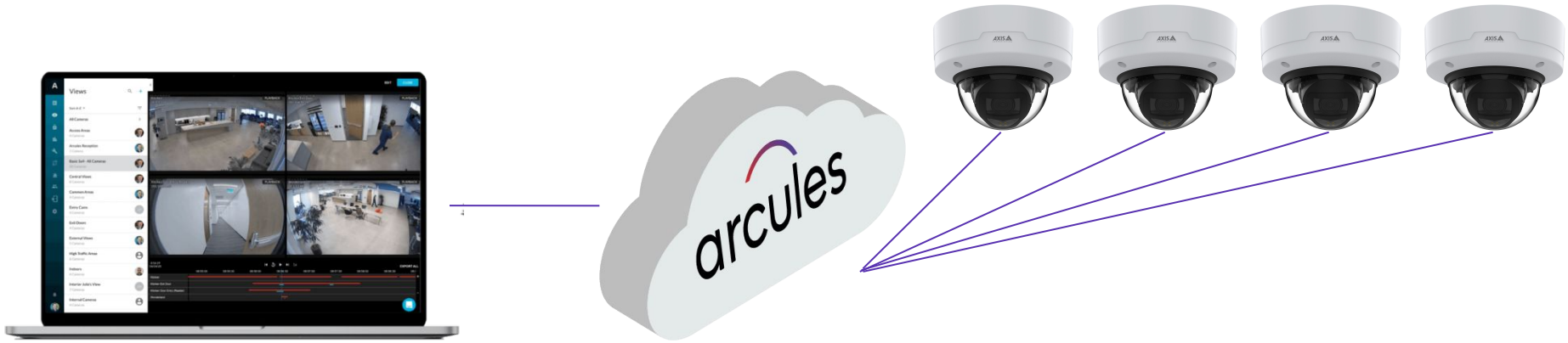
- Monitoring
- Set Up

- Web-Based Access
- Video Storage
- Analytics

- Connection to Cloud
- Video Buffering

# what is camera to cloud?

## Camera to Cloud



- Monitoring
- Set Up

- Web-Based Access

- Connection to Cloud
- Video Buffering
- Video Storage
- Video Analytics