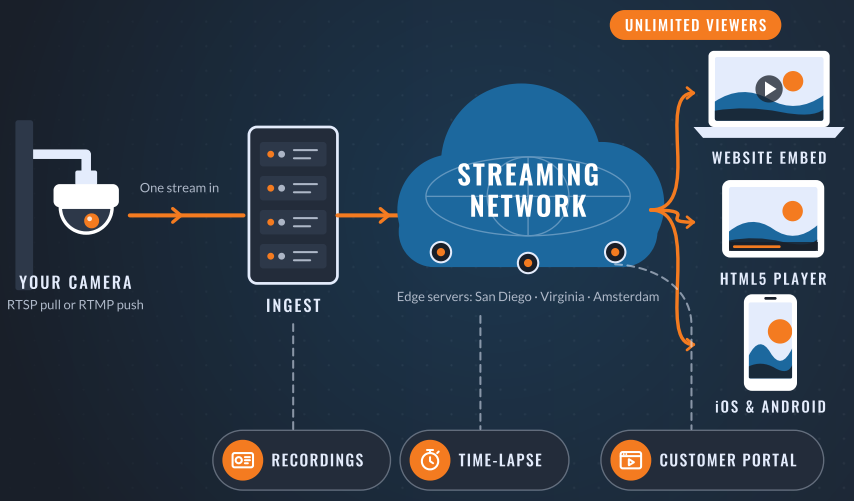
2026 EDITION

STREAMING NETWORK

STREAMING FEATURES

ANY SCREEN, ANY DEVICE



Not all streaming networks are created equal. **The HDOnTap streaming network ingests one stream from your camera and delivers it to an unlimited number of viewers on any screen.** It includes a customizable responsive HTML5 player, secure HTTPS delivery, adaptive bitrate streaming, nDVR, server side recording, time-lapse, camera monitoring and social sharing.

500+
live cameras on our network

1 billion+
hours of live video streamed

Unlimited
concurrent viewers

WHAT'S INSIDE

01 REACH EVERY VIEWER

02 CUSTOMIZE YOUR PLAYER

03 CAPTURE AND PUBLISH

04 SECURE AND RELIABLE

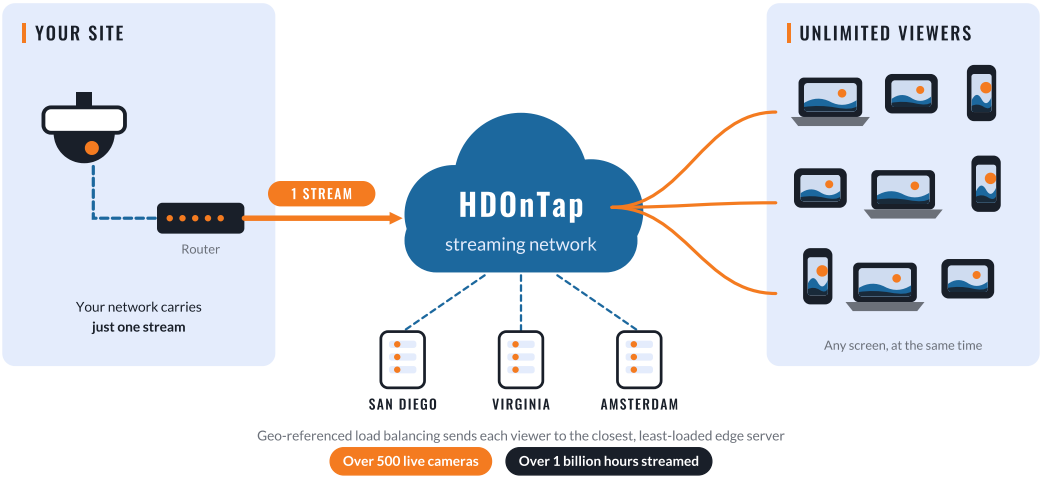
05 FLEXIBLE INGEST

REACH EVERY VIEWER

1 BUILT FOR SCALE

ONE STREAM IN, UNLIMITED VIEWERS OUT

HDOnTap's global streaming network powers **over 500 live cameras** and has streamed **over 1 billion hours** of live video to viewers worldwide. **Geo-referenced load balancing** sends each viewer to the closest, least-loaded edge server, located in **San Diego, Virginia and Amsterdam**, for fast load times and a smooth viewing experience.



UNLIMITED CONCURRENT VIEWERS

Our network ingests a single stream from your webcam and re-broadcasts it to an unlimited number of simultaneous viewers. The impact on your own network is a single video stream, while our network handles the rest.

MOBILE DEVICE STREAMING FOR IOS & ANDROID

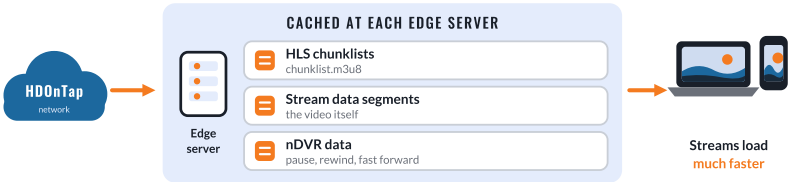
Streams to all Apple iOS devices (iPhone, iPod and iPad) and all Android devices, with no plug-ins required.

RESPONSIVE LIVE STREAM PLAYER

The adaptable player adjusts automatically to any screen size or device. On desktop, tablet or mobile, your audience gets optimal quality and usability.

EDGE SERVER CACHING

Each edge server caches the **HLS chunklists, stream data segments and nDVR data**, so streams load much faster for viewers.



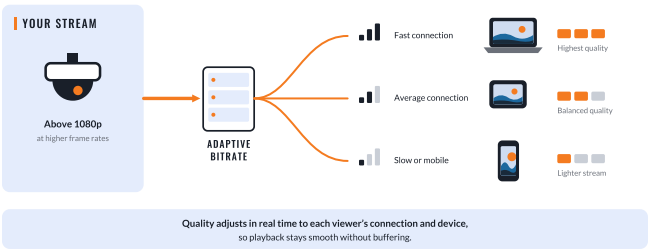
REACH EVERY VIEWER

1 SMOOTH PLAYBACK

ADAPTIVE BITRATE, nDVR AND MULTI-CAM

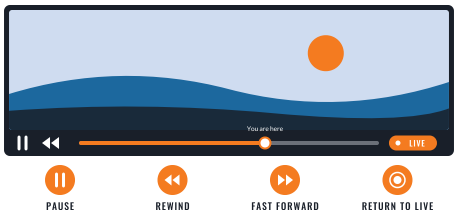
ADAPTIVE BITRATE STREAMING

Streaming above 1080p at higher frame rates needs a fast internet connection, and not every viewer has one. Adaptive bitrate (ABR) streaming plays your stream at the highest quality each viewer's connection can handle, so viewers on slower connections, such as cellular, don't get buffering.



nDVR STREAMING

Some content has to be seen again, or over and over. Pause, fast forward, rewind and return to live with nDVR (network digital video recorder) streaming.

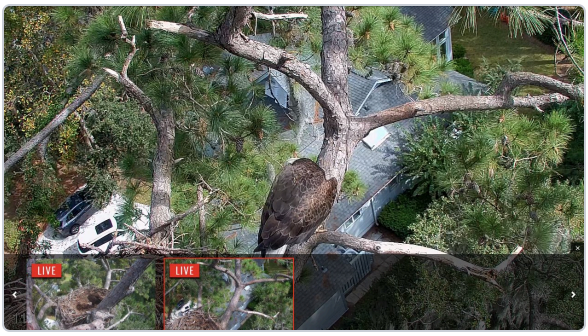


MULTI-CAM PLAYER EMBED

Switch between multiple live streams in one player through "Other Views" in the toolbar. Almost all of our customers with multiple cameras at one site use this feature.



Camera 1 selected in the Other Views strip.



One click switches the same player to camera 2.

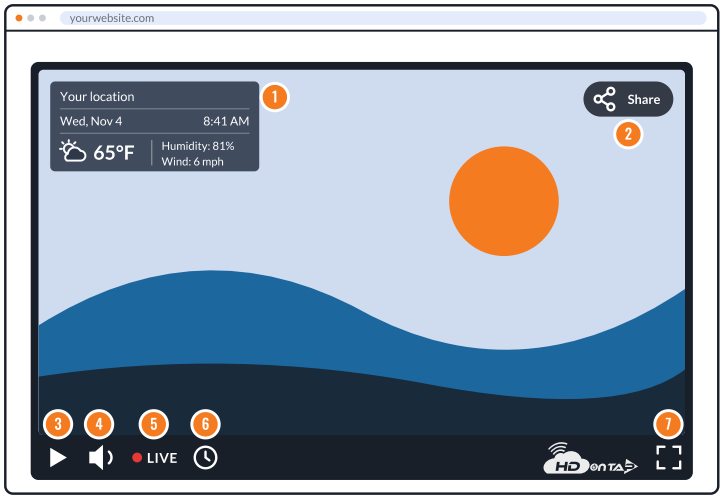
CUSTOMIZE YOUR PLAYER

2 MAKE IT YOUR OWN

THE CUSTOMIZABLE HTML5 PLAYER

HTML5 LIVE STREAM PLAYER

Customize the look and function of the HTML5 player on your website. Options include mute on or off, player size, startup poster image, integrated social sharing, autostart, watermark overlays, a weather overlay widget, other views, pre-roll ads, an offline message or custom poster image and stream time-out.



The HDOnTap player embedded on your website

THE HTML5 PLAYER

1. **Weather overlay**
   Top left: location, date, time and conditions
2. **Social sharing**
   Top right of the player
3. **Play**
4. **Volume**
   Mute on or off
5. **LIVE bug**
   Shows viewers they're watching live
6. **Time-Lapse**
   Switch from live to Time-Lapse view and pick dates, and presets on PTZ cameras
7. **Fullscreen**

ALSO CONFIGURABLE

Player size · Autostart · Startup poster image · Your logo watermark · Other views (multi-cam) · Pre-roll ads · Offline message or poster · Stream time-out

WATERMARK VIDEO OVERLAY

Brand your live stream with your company logo as a watermark. It can be embedded in the stream on the server with HDOnTap's transcoding services or overlaid on the video in the player. Either way you control its position, size and transparency.

WEATHER BUG OVERLAY

Show a customizable live weather bug overlay on your player.



Hotel La Jolla's live HDOnTap player: the weather overlay at top left and the hotel's logo overlay at top right.

CUSTOMIZE YOUR PLAYER

2 NEVER A BROKEN PLAYER

AUTO OFFLINE AND STREAM TIME-OUT

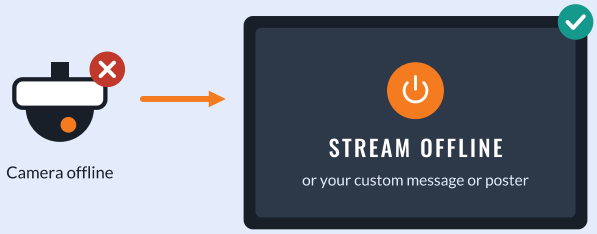
AUTO OFFLINE AND ONLINE

Instead of a broken player when your camera is offline, the player automatically shows a stream offline message, a custom message or a custom poster image.

STREAM TIME-OUT

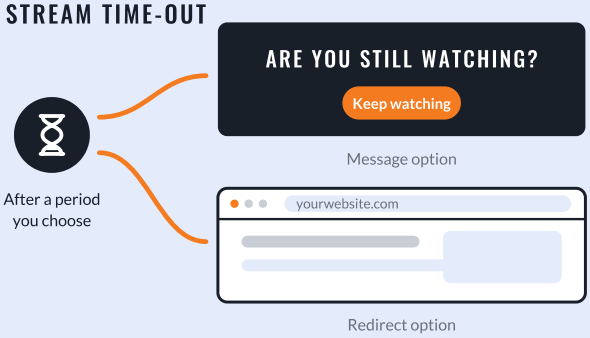
Set your live player to time out after a chosen period. Options include an “Are you still watching?” message or a redirect to another website, a great way to drive traffic back to your site.

AUTO OFFLINE AND ONLINE

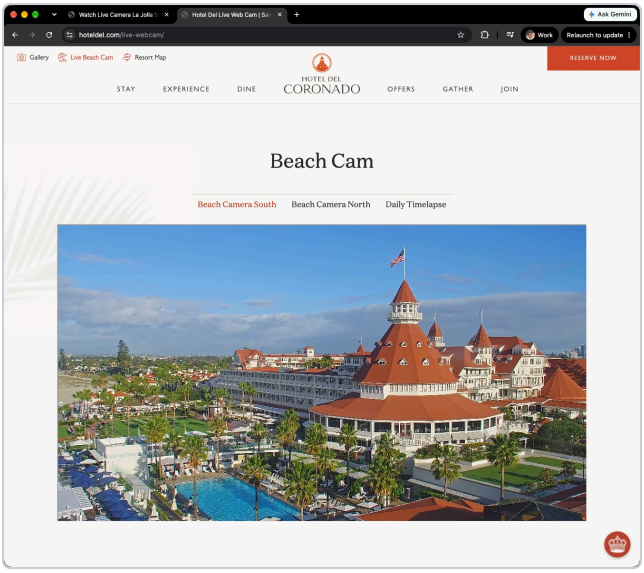


Viewers never see a broken player.
The player switches to the message automatically.

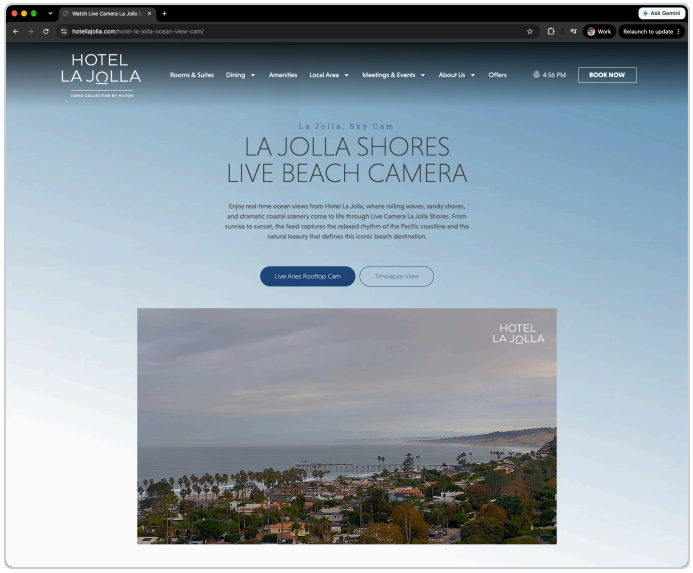
STREAM TIME-OUT



A redirect is a great way to drive traffic back to your site.



Hotel del Coronado: Beach Camera South embedded on the hotel’s website, with tabs for the north camera and a daily time-lapse.

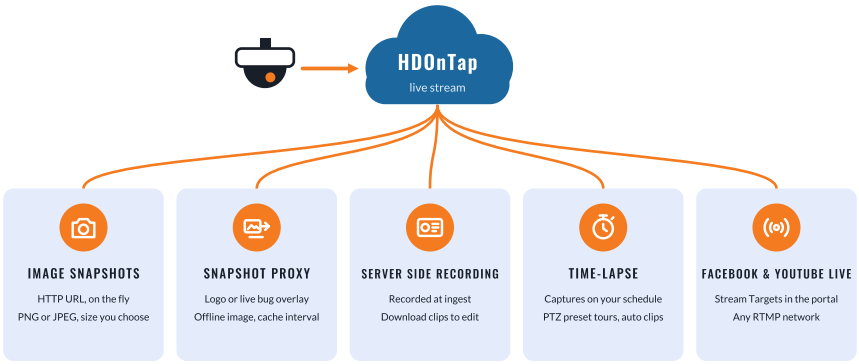


Hotel La Jolla: the La Jolla Shores live beach camera, branded with the hotel’s logo watermark.

CAPTURE AND PUBLISH

3 MORE FROM EVERY STREAM

SNAPSHOTS, RECORDINGS, TIME-LAPSE AND SOCIAL



Snapshot proxies and Stream Targets are set up in the HDOnTap customer portal.

IMAGE SNAPSHOTS

Generate image snapshots of your live stream on the fly through an HTTP URL. Choose PNG or JPEG format and the image size. Snapshots are a great tool for social sharing, live thumbnail previews and stream monitoring.

SNAPSHOT PROXY

In the HDOnTap customer portal, configure one or more live stream snapshot URL proxies. Overlay a live bug or your logo, set up a custom stream-offline image and define the image caching interval.

SERVER SIDE RECORDING

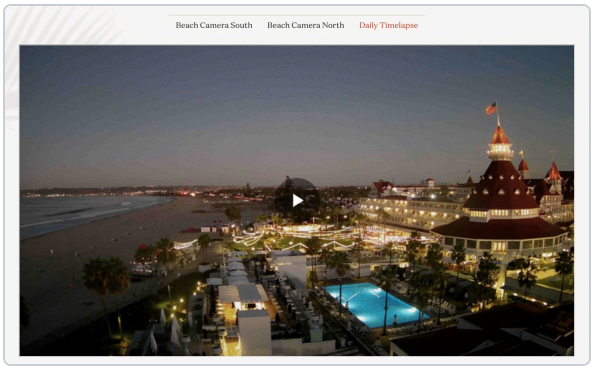
Record your live stream at the ingest server on our network and download the clips for post editing. This is very popular with our animal cams for research and for creating highlight clips.

FACEBOOK AND YOUTUBE LIVE

Publish your live stream at the same time to Facebook, YouTube or any network that supports RTMP (Real-Time Messaging Protocol) using the Stream Targets feature in the customer portal.

TIME-LAPSE

HDOnTap's time-lapse service captures images from your cameras on a schedule you set and automatically creates time-lapse clips. It operates PTZ (pan-tilt-zoom) cameras by rotating through preset locations while your live video keeps streaming. Use the clips on social media, embed a dedicated time-lapse player on your website or add them to your live stream player so viewers can switch between live and time-lapse.



*Hotel del Coronado's embed with the **Daily Timelapse** tab selected, right next to its live beach cameras.*

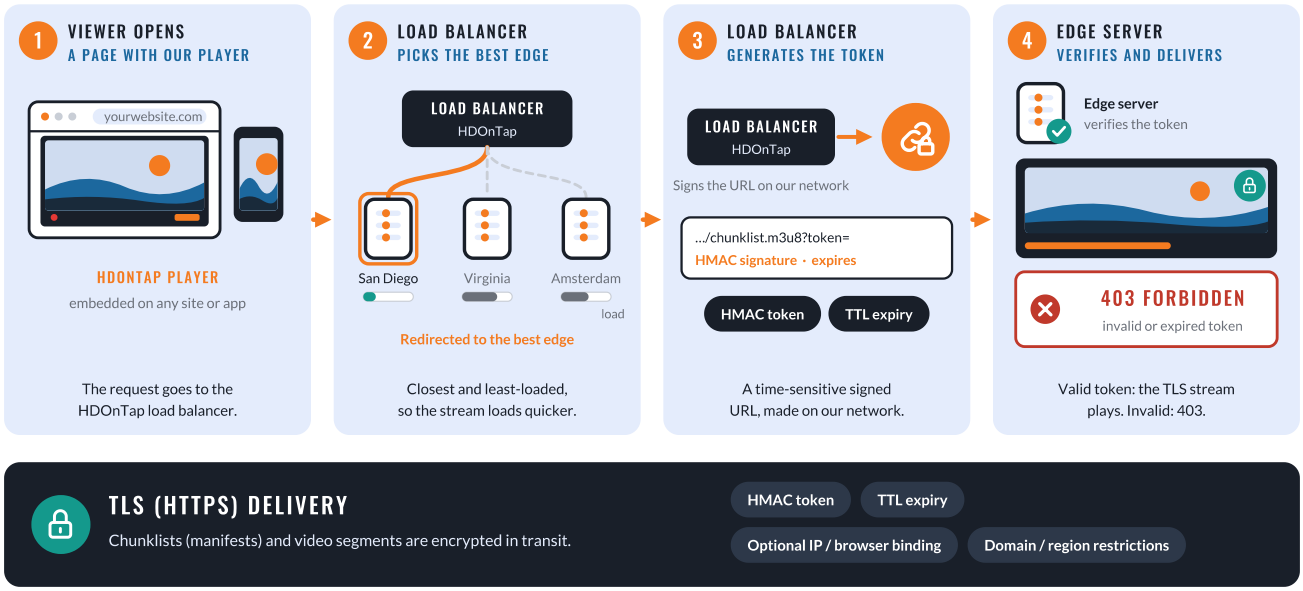
SECURE AND RELIABLE

4 PROTECTED AT THE EDGE

TLS ENCRYPTION PLUS SIGNED URLS

Your stream is protected by layered security: **TLS (Transport Layer Security) encryption plus tokenized signed URLs**. Together they guard against stream ripping, hotlinking and bandwidth theft, so your content plays only for legitimate viewers on platforms you approve.

THE LOAD BALANCER ROUTES AND SIGNS. THE EDGE VERIFIES AND DELIVERS.



HOW SIGNED URLS WORK IN REAL TIME

1. **Request:** a viewer opens a webpage with an embedded HDOnTap player, and the request goes to HDOnTap's load balancer.
2. **Routing:** the load balancer determines the viewer's **closest and least-loaded edge server** and redirects the request there, so the stream loads quicker.
3. **Token generation:** the **load balancer** also generates the unique, time-sensitive signed URL (token) on HDOnTap's network.
4. **Verification and secure delivery:** the edge server verifies the token and delivers the TLS-encrypted stream (chunklists and segments). A request with an invalid or expired token gets a **403 Forbidden** error before any video is sent.

SECURE AND RELIABLE

4 ENCRYPTED AND SIGNED

PLUS CAMERA MONITORING AND ALERTS

END-TO-END TLS ENCRYPTION

All video data, including the HLS (HTTP Live Streaming) manifests and the video segments, is delivered only over HTTPS using TLS. The stream is encrypted between our delivery servers and each viewer's device, which prevents interception, tampering and eavesdropping (man-in-the-middle attacks), and guarantees the stream can't be altered in transit.

TOKENIZED SIGNED URLS

Every stream request needs a unique, cryptographically signed URL, which stops restreaming and embedding of your player on unauthorized websites. Each token is signed with HMAC (Hash-based Message Authentication Code) and a secret key, proving the URL came from our system and wasn't changed. Tokens expire after a set time (TTL, or time to live), so copied links stop working. Tokens can also be bound to the viewer's IP address or browser, and restricted to your approved domain or specific regions, so shared links and unauthorized players are rejected at our edge servers.

CAMERA MONITORING AND ALERTS

HDOnTap's network monitors your webcam and alerts you by email or text if there is a problem. Do not wait for website visitors to tell you about issues you could have solved sooner.

SECURITY AT A GLANCE

TLS (HTTPS) only
Chunklists and video segments are encrypted in transit.

HMAC-signed URLs
Each token is signed with a secret key on HDOnTap's network.

TTL expiry
Copied links stop working when the token expires.

IP and browser binding
Optional: a token works only for the viewer it was issued to.

Domain and region rules
Play only on your approved domain or in specific regions.

403 Forbidden
Invalid or expired tokens are refused before any video is sent.

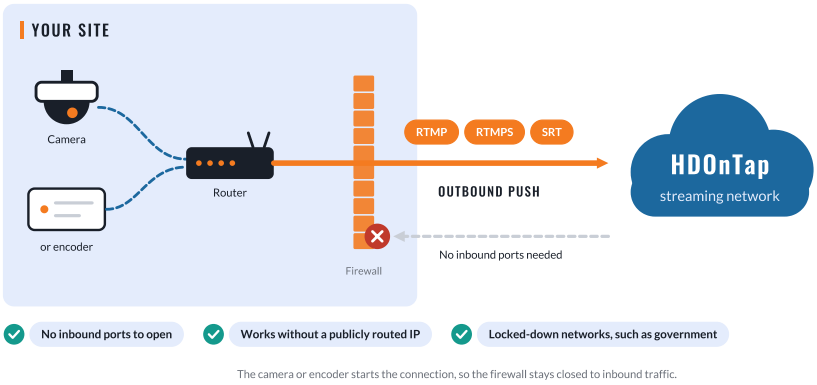
FLEXIBLE INGEST

5 ANY CAMERA, ANY CONNECTION

PUSH OR PULL: YOU CHOOSE

STREAM PUBLISHING

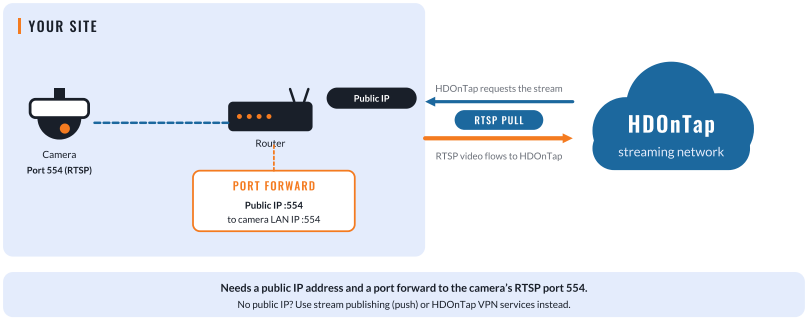
If your video encoder or camera supports RTMP (Real-Time Messaging Protocol), RTMPS (RTMP over TLS) or SRT (Secure Reliable Transport), push your live stream to our network. HDOnTap provides the publishing URL and credentials to make setup simple. Publishing is ideal when your internet connection doesn't have a publicly routed IP address, or when you don't want your network opened up for an RTSP (Real Time Streaming Protocol) pull for security reasons, such as on government networks.



Tip: why SRT? SRT is built for unreliable connections. Its error correction and retransmission recover lost packets and smooth out jitter, it includes built-in AES (Advanced Encryption Standard) encryption, and it keeps latency low. It's a great choice for cellular, satellite or other less stable links.

RTSP STREAM PULL

HDOnTap's network pulls the RTSP stream directly from your camera on port 554. This needs an internet connection with a publicly routed IP address and port 554 forwarded to the camera on your router. See our port forwarding guide (*Understanding Port Forwarding*) for help setting this up.



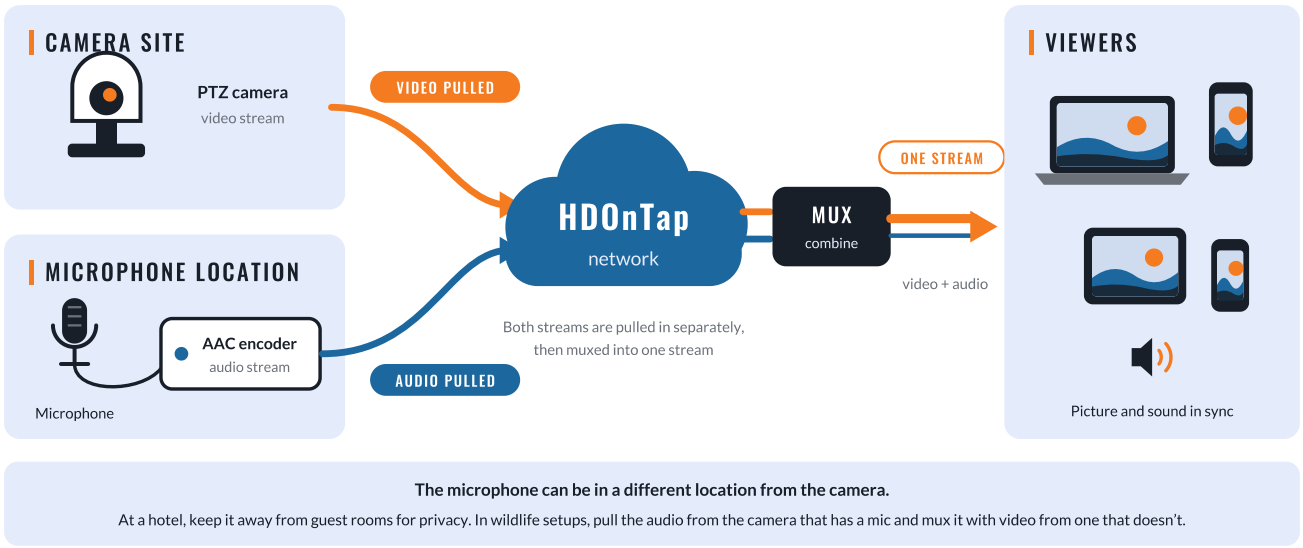
FLEXIBLE INGEST

5 AUDIO AND VIDEO MUXING

SEPARATE FEEDS, ONE STREAM

AUDIO AND VIDEO MUXING

Some streaming workflows need separate audio and video feeds combined into a single stream. Control the muxing process in the customer portal. Muxing lets you put the **microphone and audio encoder in a different location** from the camera, for example at a hotel where the camera is near a guest room and you don't want to invade guests' privacy. In **wildlife setups where only one camera has a microphone**, our network can pull the audio feed from the camera with the mic and mux it with the video from the camera without one.



The HDOnTap network pulls the video and the audio separately, then muxes them into one stream with video and audio for your viewers.

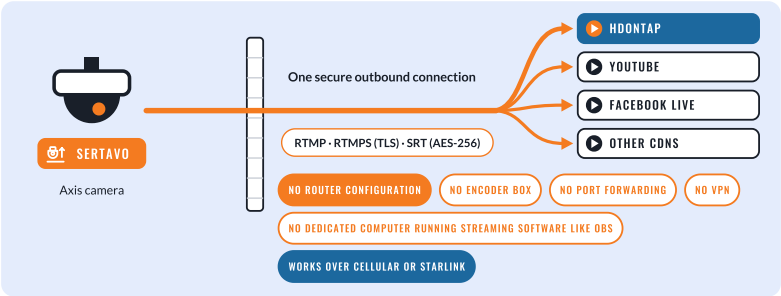
FLEXIBLE INGEST

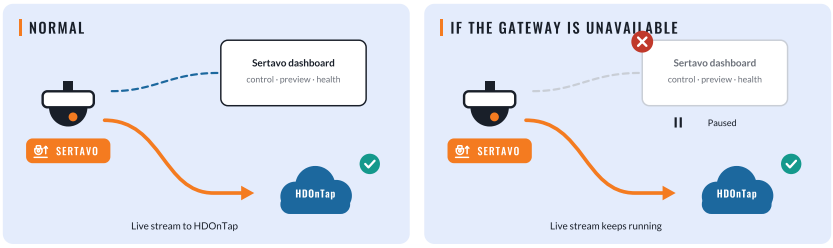
5 SERTAVO FOR AXIS CAMERAS

STREAM STRAIGHT FROM THE CAMERA

Sertavo

Stream straight from your Axis camera with Sertavo. Sertavo, a product of IP Video Specialists, Inc., the company behind HDOnTap, runs right on Axis cameras and publishes (pushes) video directly to HDOnTap's network, Facebook Live, YouTube or other CDNs (content delivery networks) over RTMP, RTMPS or SRT. Streams are encrypted with AES-256 over SRT or with TLS over RTMPS. It supports H.264, H.265 and AV1 (AV1 on ARTPEC-9 cameras). Setup is easy, with no router configuration, encoder box, port forwarding or VPN (virtual private network), and no need for a dedicated computer running streaming software like OBS: the camera makes one secure outbound connection. Sertavo works over cellular, Starlink or any internet connection, with no router changes. If the Sertavo dashboard ever goes offline, your stream keeps running from the settings saved on the camera.





LET'S START STREAMING

SEE PRICING FOR THESE FEATURES

Compare what each plan includes in *HDOnTap Streaming Plans* (2026), or contact sales to talk through your project.

858.481.4096
sales@hdontap.com

TAP INTO THE POWER OF LIVE STREAMING VIDEO

LET'S START STREAMING

ANY SCREEN, ANY DEVICE

Explore packaged or customized solutions to maximize your brand's impact online, with the guidance of our experienced staff.

CALL OUR OFFICE
858.481.4096

EMAIL
sales@hdontap.com

VISIT US ONLINE
hdontap.com

IP Video Specialists, Inc. d.b.a. HDOnTap
2120 Jimmy Durante Blvd. #123, Del Mar, CA 92014

HDOnTap

STREAMING SERVICES REDEFINED.