

Graduation Streaming  
**WITH DISCOVER VIDEO**

A photograph of graduates in blue gowns and caps, with their hands raised in celebration against a bright sky. The image is overlaid with a semi-transparent orange filter.

## Live Stream Your Graduation Ceremony

Learn how to successfully deliver your  
Graduation to family and friends.

# GRADUATION STREAMING

Many schools are now streaming their graduations live on the Internet to family and friends across the globe. To make the broadcast successful, it takes the proper equipment and streaming service. Discover Video's clients have streamed hundreds of graduations. This eBook covers the equipment, services, and best practices.

## How it Works

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Streaming a Graduation can be very simple. First of all you need to capture the video and audio through HD cameras and a high quality microphone system. The AV equipment then connects to an HD video encoder for delivery to a streaming service. Viewers typically go to a webpage to see the graduation live on their computers and mobile devices.





# Delivering Graduation Streams via your private network and public Internet has never been easier.

## SETTING UP YOUR LIVE STREAM

Having a successful graduation broadcast depends heavily on using the right equipment to capture and deliver the event.

### Equipment You'll Need

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- ✓ **Encoder:** Discover Video has multiple encoder options that can be used for the delivery of a Graduation Live Stream:
  - **Streamsie:** An app for smartphones, tablets, PCs, and Macs that provides a software solution for recording and streaming live. Can be used with internal cameras or connected to web cams or cameras with our Captiva adapters.
  - **Rover:** A lightweight mobile streaming system that incorporates the Streamsie Pro encoder onto a powerful laptop computer with an HDMI adapter for capturing and streaming video and VGA.
  - **Spirit:** A high performance desktop system ideal for permanent installations that require HD quality.
  - **Mantis®:** A self-contained universal HD encoder appliance for live HD streaming from cameras or other video sources.
- ✓ **Camera:** Use a modern camera with an HDMI output. That old VHS camcorder gathering dust will work, but you won't get the quality that even a cheap modern webcam provides. If you use two cameras, your second video input could also be the VGA output of a computer, allowing you to switch to show a web page, image, Powerpoint presentation, video, or anything else on that computer's screen.
- ✓ **Microphone:** For audio we recommend connecting the PA system at the graduation to the audio input on the video camera. Using this approach allows you to record the graduation (video and audio) directly on the camera and on the video encoder. If the PA audio is not available, we recommend using an external Boom microphone pointed at the nearest audio speaker. Lastly, the internal mic on the camera can be used to capture the event.
- ✓ **Tripod:** Having a tripod ensures that there is as little motion as possible in your feed. Any tripod will do the trick, but a tripod with a swivel head will allow for motion

# Connecting to the Network

In order to successfully stream your graduation you need a good network connection to your streaming service (server). We recommend at least 3 Mbps of Upload bandwidth to deliver the graduation in full motion and high resolution.

## Ethernet

The best way to get your stream to the Internet is through your school's local area network. If possible it is recommended you connect the video encoder directly to the Ethernet network and use the school's Internet connection.

## WiFi

If you can't connect directly to the venue Ethernet network, the next best alternative is a WiFi network. As with the Ethernet network, the upload bandwidth needs to be at least 3 Mbps.

We recommend a WiFi network that is password protected and limits the users. The negative of WiFi networks is the possibility of the graduation attendees also jumping on the same network and saturating the available bandwidth.

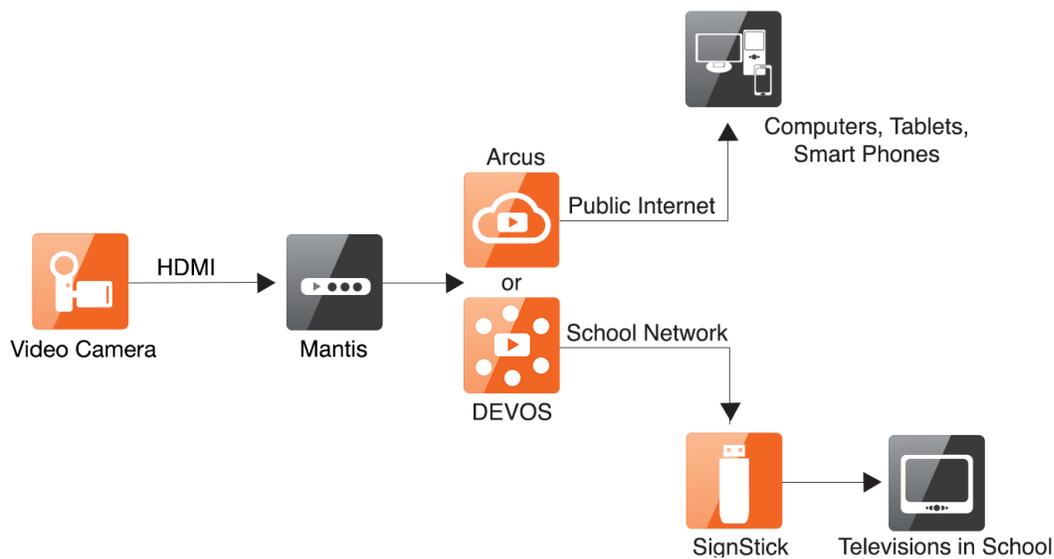
The Discover Video Rover encoder is a good choice since it includes both Ethernet and WiFi connectivity.

## Cellular

As a last resort a cellular connection can work for a live stream. Cellular is the least desirable because of the uncertainty of the upload bandwidth. At least 3mbps of upload bandwidth is desirable. The biggest risk is the bandwidth usage during the graduation. The local cell tower may become oversubscribed if many people in the audience start using their cell phones. With cellular we recommend the Rover encoder used with a cellular modem or a hot spot device. Any Smartphone can be easily turned into a hot spot for transmission.

## Overflow Rooms

Quite often there is limited seating at the graduation venue. How do you get the graduation video/audio to other locations at the school or campus? With Discover Video you can easily deliver the live video to large TV monitors within the school/campus. By using either Arcus or DEVOS, the live stream can be streamed on the local Ethernet network and captured by decoding devices such as the Discover Video SignStick-2 or Discover Video Set Top Box. In this fashion, everyone can have front row seat whether they are in the graduation auditorium, overflow room, or watching at



## BRINGING THE GRADUATION TO GRANDMA

Your graduation stream can be viewed by anyone with access to the public internet.

### Arcus- Discover Video

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Arcus is a simple and inexpensive to use streaming service that can get your live video to thousands of viewers worldwide. Arcus provides the ability to customize the viewing webpage and review the statistics/reports. It also allows people to add comments and questions. Arcus does not include any ads or related content to distract viewers. You can also record and place the VOD on Arcus for post graduation viewing.

### Facebook/YouTube

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These are popular services for delivering live streams to viewers worldwide. The positive aspect is the cost – sometimes free. On the negative side there is no technical support, limitations on viewers, ads popping up around your video, and limited statistics on the viewers.

### DEVOS- Discover Video

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DEVOS is a complete video distribution system which includes unlimited live streams, video on demand, digital signage, presentation systems, and many more features. An investment in DEVOS allows a school to not only stream the graduation live but also use the same system for streaming events, lecture capture, campus video messaging, IPTV, etc. DEVOS can also reach thousands of viewers with sophisticated features such as Multiview – watch multiple streams of the graduation on a single viewing device.



**Live graduation events are easy to broadcast to anyone. It is affordable and easy to do with a Discover Video system. Nothing communicates better than sight and sound, and in today's connected, social media world, students expect nothing less.**

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# What else can you do with DEVOS?



Digital Signage



IPTV  
Broadcasting



Lecture  
Capture



Morning  
Announcements



Corporate Town  
Hall Meetings



Professional  
Development



Employee  
Onboarding



Secure Online  
Training



Webinars/  
Presentations

Looking for a way to stream your graduation to over flow rooms and out to the public internet all through one solution? Contact us to see how Discover Video's flexible and affordable graduation streaming solution can bring your dreams to life.