

Internal Training Session for video production

Venue: CYM401

Time: 23 June 2021 11am – 12:30pm

Instructor: Michael Yiu

(Powerpoint updated on 16 November 2022)

Content

- Basic set-up in studio
- How to use green screen (with demonstration)
- Live streaming (via Zoom/ CEDARS Youtube Channel) (with demonstration)
- How to remove Green screen in Camtasia / iMovie (with demonstration)
- Green screen mistakes and how to avoid them
- How to use audio-visual equipment (with demonstration)
 - LED light
 - Mic
 - Stabilizer (for mobile / camera)
 - TV (for presentation/teleprompter/viewing)
 - Tripod
- How to use mixer (with demonstration)
- Basic safety considerations in studio
- Q&A

Basic set-up in studio

Serve as chrome key
preview for the
videographer

Serve as chrome key
preview for the
actors

Camera x 1 (front view)
Camera x 2 (side view
– on need basis)

Supplementary Light x 2 (on need basis)

Light x 2 (basic)

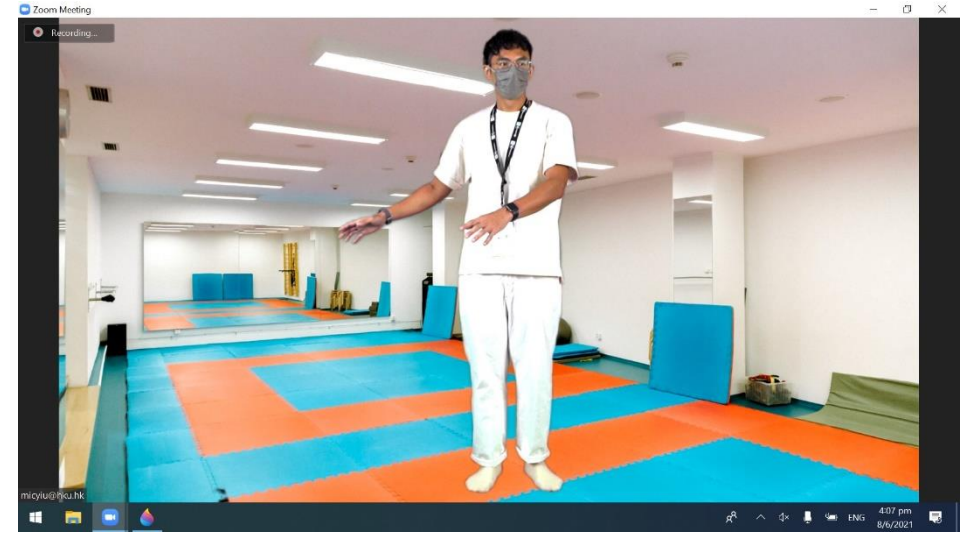
Green Screen

Bar Chair / Sofa
/ Chair



How to use green screen (with demonstration)

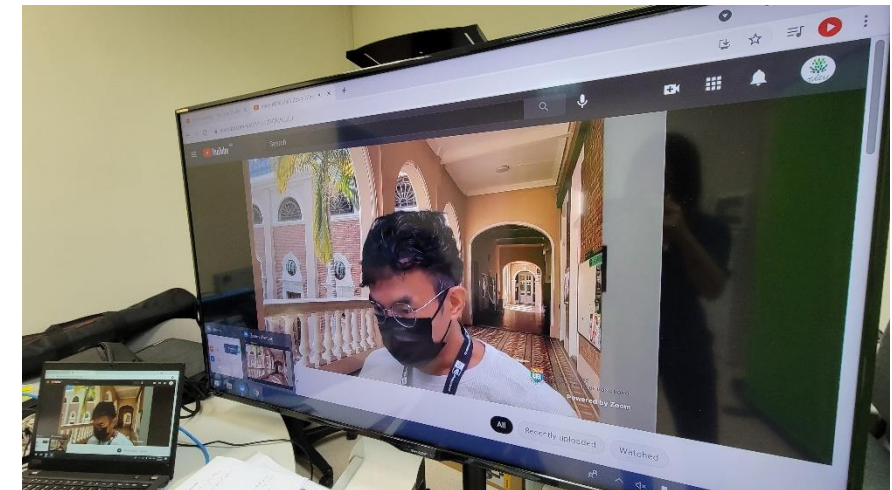
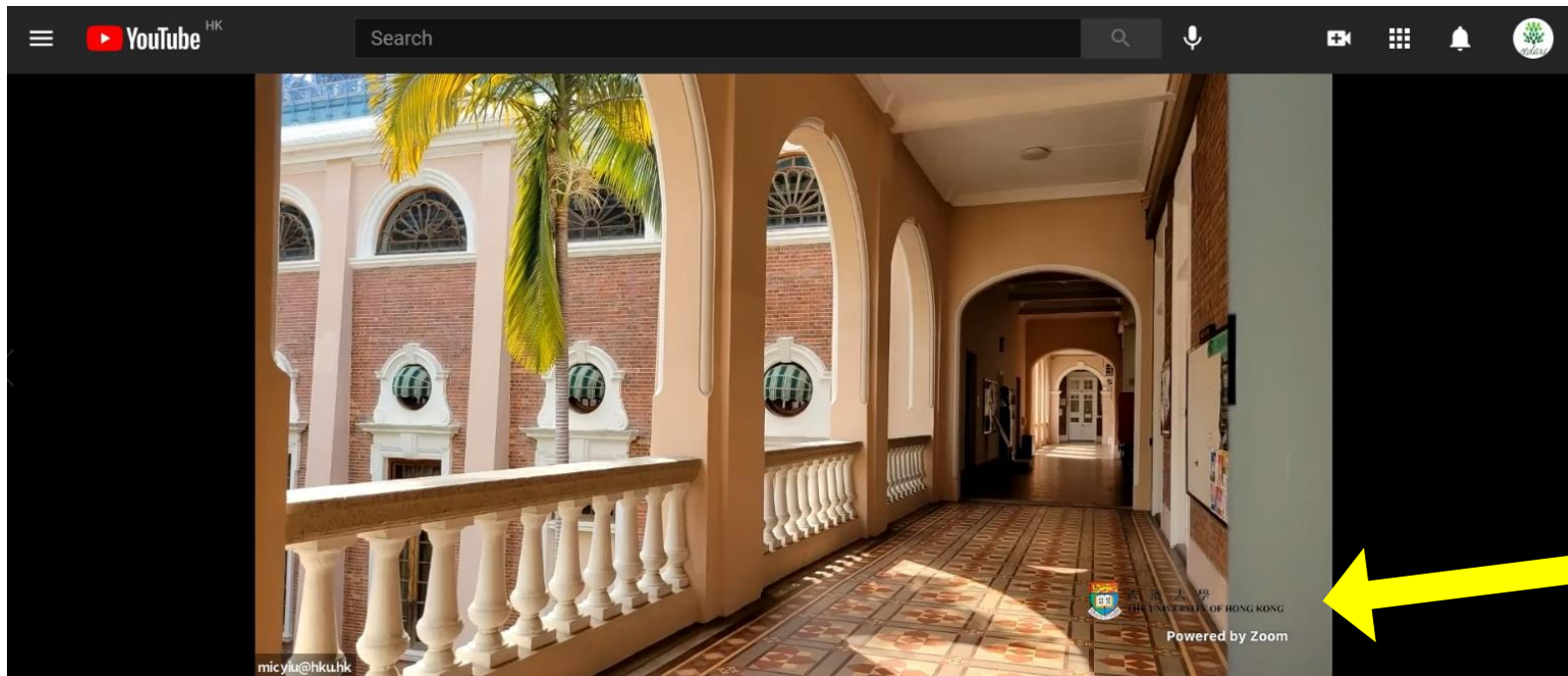




(upon special request)

Live streaming (via Zoom/ CEDARS Youtube Channel) (with demonstration)

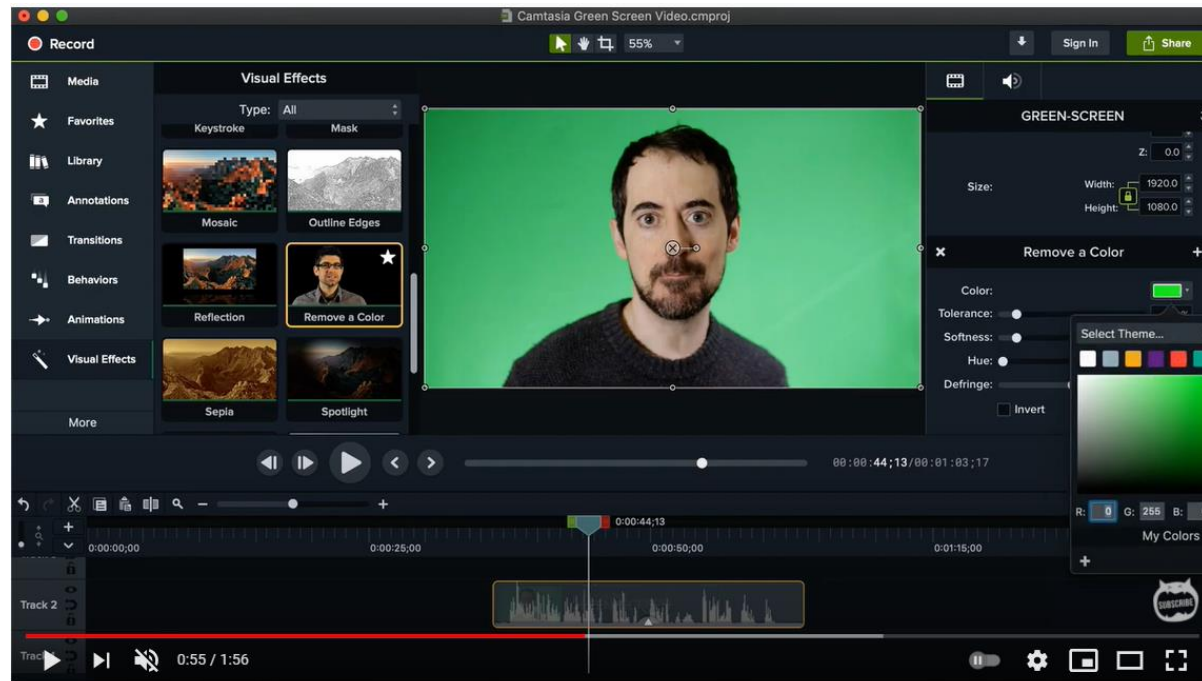
- Live streaming via Zoom to Youtube (HKU portal login required)
- Live streaming via Youtube (HKU portal login is not required)



*Auto display of HKU logo on the video when the live streaming is broadcasted via Zoom to YouTube

*Please submit your request to Dean's office at deansoffice@cedars.hku.hk .

How to remove Green screen in Camtasia / iMovie (with demonstration)



- [iMovie](#)

<https://mediacommons.psu.edu/2017/11/15/10840/>

- <https://www.youtube.com/watch?v=9kU0xa4ltn4>

Camtasia (HKU License)

- Application of HKU license : <http://moodle-support.hku.hk/camtasia-site-license-staff-and-students>

Background photo / video / graphic

- There should be NO copyright infringement for all video production.
- Check the internal guideline on copyright issue for all publicity materials.
<https://www.cedars.hku.hk/publicity#a1>
- CEDARS Internal Photo Gallery -
Album of HKU Campus
http://archive.cedars.hku.hk/photo/#!Albums/album_484b552043616d707573
- HKU Multimedia Collection **[NEW]** -
<https://hku.canto.global/v/multimediacollection/>
- Free online stock photo/video sites - <https://unsplash.com/> ;
<https://www.pexels.com/> ; <https://pixabay.com/>

Green screen mistakes and how to avoid them

✗ Uneven Lighting

Solution:

1. Close the curtains at the room
2. Switch off the room lights and use the LED lights only
3. Add lights if necessary



Green screen mistakes and how to avoid them

✗ Wrinkles

Solution:

1. Run a hot iron over the wrinkles.



Green screen mistakes and how to avoid them

✗ Shadow

Solution:

1. Position the subject away from the green screen
2. Avoid a single hard light on your subject
3. Add lights behind your subject if necessary



Green screen mistakes and how to avoid them

✗ Motion blur

Solution:

1. Move your subject slowly to avoid motion blur
2. If you need fast movement, use a higher shutter speed (a smaller shutter angle) to avoid motion blur



Green screen mistakes and how to avoid them

✗ Clipping out of the
Green Screen

Solution:

1. Check the chroma key preview during the shooting



Green screen mistakes and how to avoid them

✗ Green Clothing, makeup, accessories and props

Solution:






1. Avoid green clothes, shoes, and accessories during production
2. Check the chroma key preview during the shooting



How to use audio-visual equipment (with demonstration)

- Microphone
 - Different mics serve different functions
 - Different mics support different devices
 - Special note on usage

As of 17 Jun 2021

Microphone				
4	Microphone Type 1 (毛毛收音咪) (For Android mobiles and Camera)	RODE VideoMicro Camera Microphone	1	
5	Microphone Type 2 (夾領收音咪) (For Android mobiles and Recorder)	N/A	1	
6	Microphone Type 3 (夾領收音咪) (For iPhone)	BOYA BY-DM1-Lightning	1	
8	Wireless Microphone 2 on 1 (for camera)	Wireless GO 2 receiver X1 Transmitters X2 USB-C Cable X3 SC5 3.5mm TRS Cable X1 Windshield X3 Carry Pouch X1	2	
9	Condenser Microphone (for iphone)	SHURE MV88	1	




How to use audio-visual equipment (with demonstration)

- Tripod

12	Tripod Type 1 (For camera)	Cullmann Video3200	1	
13	Tripod Type 2 (For camera)	Cayer BF10L	1	

How to use audio-visual equipment (with demonstration)

- LED light

22	LED Light Light Stand Ac Adapter Remote Bag (Floor stand)	Phottix Nuada R3 II LED Light Twin Kit Set	2 2 2 1 1	
23	LED Light Light Stand Ac Adapter (Floor stand)	Ring Light	1 1 1	
25	LED Light KIT (Table Stand)	Phottix Saldo 240 Light Stand 反折型燈架 240cm	1	

How to use audio-visual equipment (with demonstration)

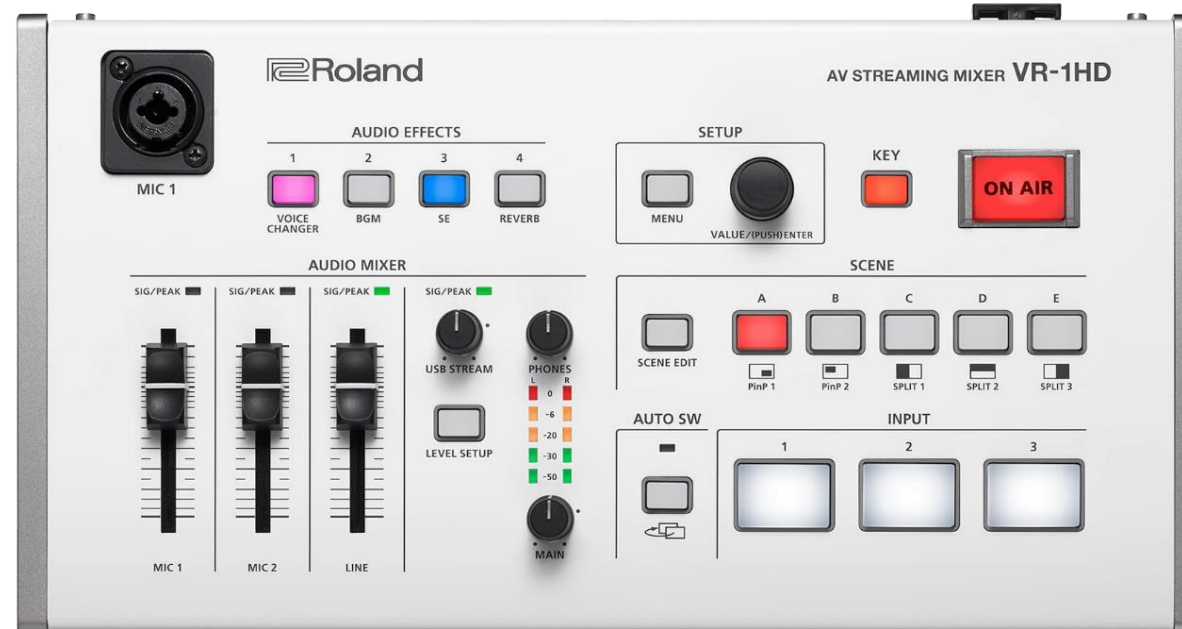
- Stabilizer
(for mobile /
camera)

18	Stabilizer(穩定器) (For mobile phone)	DJI osmo mobile 3combo	1	
19	Stabilizer (穩定器) (For mobile phone) Bag	FeiYu SPG C	1	
20	Stabilizer(穩定器) (For Camera) **IT team's support may be needed	DJI RSC2	1	

How to use audio-visual equipment (with demonstration)

- TV (for presentation/teleprompter/viewing)
 - Teleprompter : Autocue <http://www.freeteleprompter.org> and Easy Prompter <https://www.easyprompter.com/index>

How to use mixer (with demonstration)



VR-1HD

AV STREAMING MIXER

- Real engagement in real time
- Roland VR-1HD lets you broadcast dynamic multi-camera livestreams, complete with amazing picture and sound that easily outshines 'standard' livestreams from a mobile phone or static webcam.
- it's the easy way to livestream with high production standards



VR-1HD

AV STREAMING MIXER

MICROPHONE INPUT 1

There are two Microphone inputs with Phantom Power available. One on the top and one on left side.

AUDIO EFFECTS

Choose from Voice Changer, Reverb or Audio file playback and Solo/Mute functions for these 4 programable buttons.

AUDIO MIXER

Adjust the volume of the Inputs (MIC 1, MIC 2, and LINE) and Outputs (USB, PHONES, MAIN)

SETUP MENU

The on-screen menu appears on the Monitor HDMI output. The Value knob has a push function for Enter.

KEY BUTTON

Turns key compositing on/off.

ON AIR BUTTON

The ON AIR button activates the USB streaming output on/off.

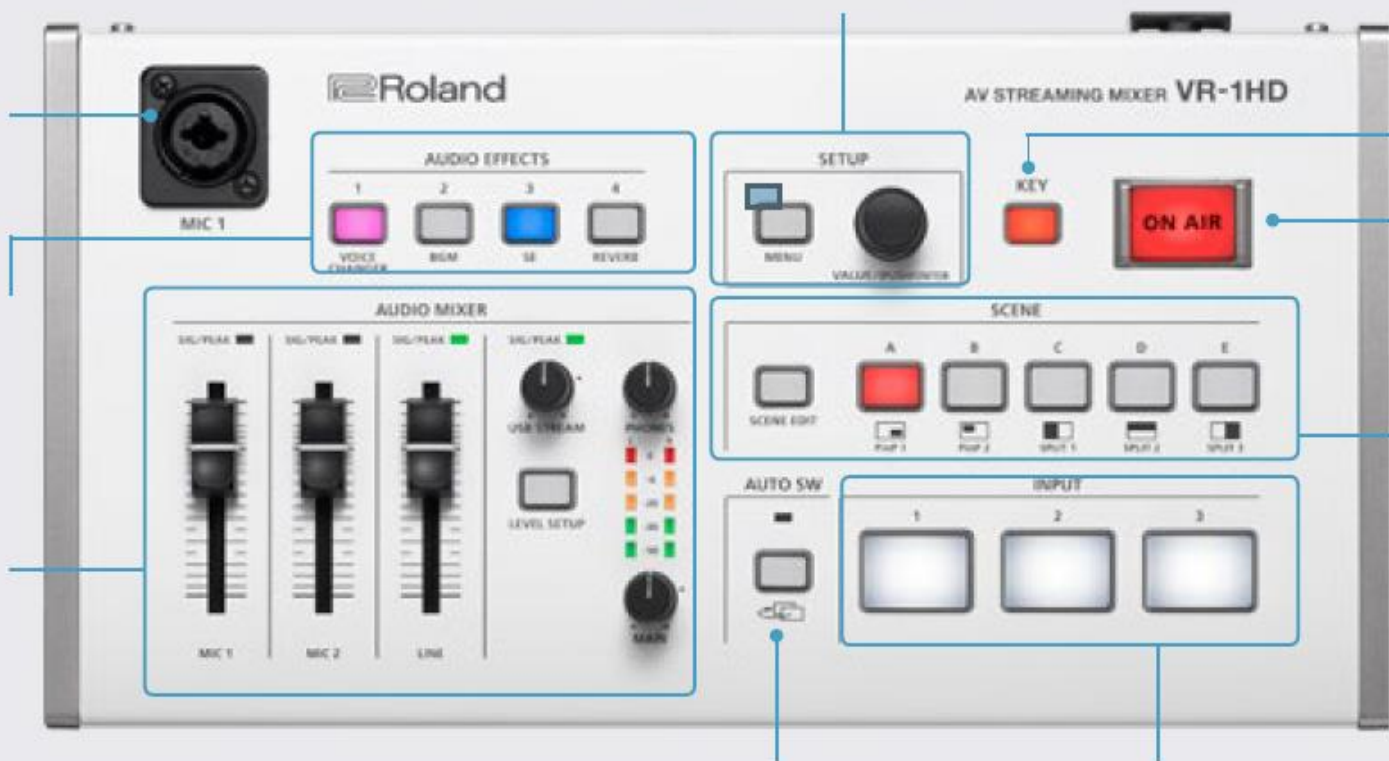
SCENE SELECTION

Choose from 5 different picture compositions. All setups are fully adjustable and you can choose between PinP and Split screen modes. There is a convenient shortcut button to the Scene Edit menu.

AUTO SWITCH

The Auto switch function can be set to Video follow Audio, where audio from the Mic/Line inputs can control the video channel selection.

VIDEO INPUT SELECTION



VR-1HD

AV STREAMING MIXER

MONITOR & MENU OUTPUT

THRU CONNECTOR

The "THRU" output throughputs the video from input 3. This can be used as a presenters output monitor or for recording purposes.

USB MEMORY PORT

Connect a USB flash drive here. You can load Wave files (sound effects or music) or still images as well as backup/recall your settings.

USB STREAM PORT

The USB 3.0 Streaming output transmits the main output as an uncompressed Video and Audio signal in various resolutions from 854 x 480p/25 up to 1080p/30. The USB port also accepts Audio return signal from the connected computer.

MAIN OUTPUT

The Main is scalable and supports HDCP.

VIDEO INPUTS

The 3 HDMI inputs have individual scalars that accept a wide range of different resolutions and frame-rates. The inputs support HDCP.

MICROPHONE INPUT 2

There are two Microphone Inputs with Phantom Power available. One on the top and one on left side.

LINE IN/OUT
Connect audio inputs and outputs here.

PHONES OUTPUT
Connect headphones here.



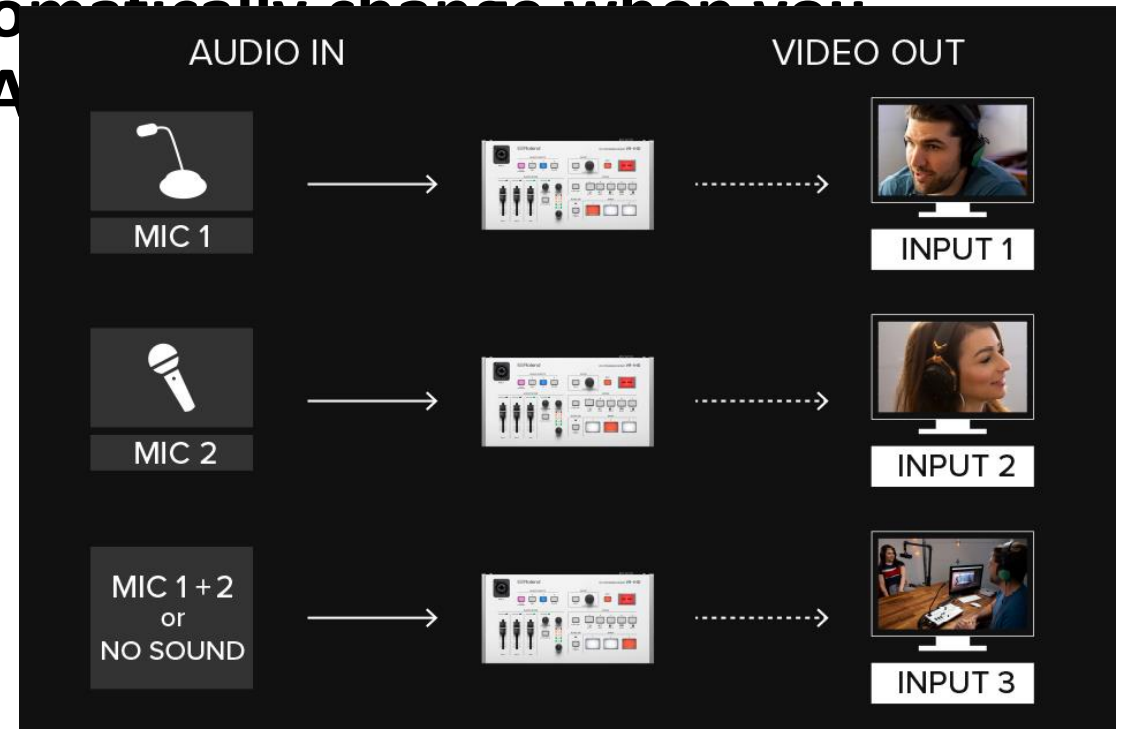
VR-1HD

AV STREAMING MIXER

- Switch to livestreams
- The VR-1HD has built-in Scene Switching to instantly jump between scenes that contain preset arrangements of layered sources, displayed within customizable inset windows.
- Set-up the scenes in advance and recall them via the five scene preset buttons, to make your livestreaming way more interesting.



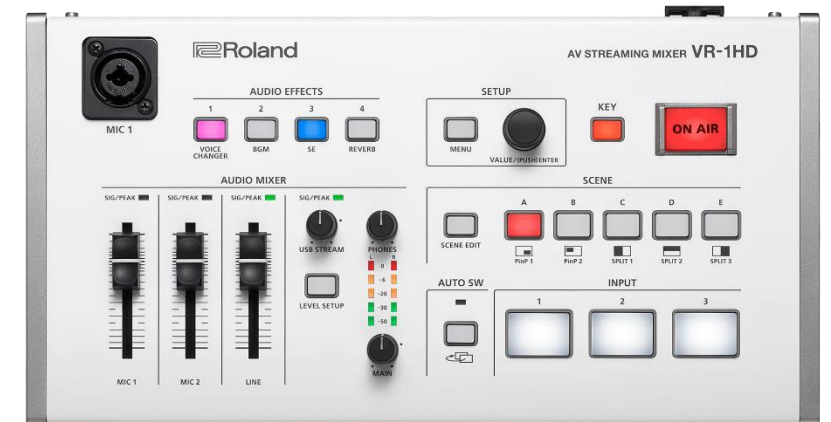
- you can ensure that different audio inputs aren't competing, while also checking that the sound remains balanced.
- You can even set certain inputs to take priority so when the host starts to speak, the other audio levels are automatically reduced.
- Audio from your input sources can automatically change when you switch video sources, by engaging the A



VR-1HD

AV STREAMING MIXER

Example 1



VR-1HD

AV STREAMING MIXER

Example 2



sound feed



VR-1HD

AV STREAMING MIXER

Example 3



Basic safety considerations in studio



Q&A