

# Small Staff Solution For Live Studio Streaming

## CASE STUDY



More details on this article:

<http://pro.jvc.com/pro/pr/2019/releases/hccc.html>

## Works great in podcast studio with precise remote operation.

Houston Community College (HCC) has launched a new podcast studio built around three JVC KY-PZ100 robotic PTZ network video production cameras and the ProHD Studio 4000 live production and streaming studio. Although HCCTV operates two cable channels and has several studios on campus, the new podcast studio represents a move to more streamlined productions that do not require large crews. According to Chris Bourne, HCCTV chief broadcast engineer, most of the programs produced at the college feature talking heads and interviews. As a result, unless there is some sort of physical demonstration on set, such as preparing a meal, many productions can easily be transitioned to a one-person technical crew and host.

Bourne is pleased with the PTZ cameras, which are mounted on C-stands with Matthews gimbal heads. All three PTZ cameras are controlled with one JVC RM-LP100 remote camera controller and virtual CCU. Its joystick and zoom rocker provide smooth and precise camera movements, while its seven-inch touchscreen panel provides control of camera groups, presets, and camera settings. Bourne noted the RM-LP100 has been an important tool for the studio's main director, who relies heavily on camera presets while switching to create visually interesting programming.

The podcast studio has been used almost every day. Housed in HCC's administration building in downtown Houston, the facility hosts a variety of productions. It works particularly well with shows like *Story Behind the Story*, which features interviews with people involved in local events. The studio is far less intimidating than a traditional studio filled with a full crew and large cameras. As a result, guests tend to be more candid.

## IP Video Streaming, Distribution, and Control Solution

- Live streaming is possible in HD or SD resolutions depending on available bandwidth.
- KY-PZ100 PTZ camera features JVC's unique IP communications engine providing network connection via Wi-Fi, 4G/LTE, or wired LAN.
- RM-LP100 Remote Camera Controller connects to your network and provides complete IP control of multiple cameras on your network and over the Internet.

## Direct Drive Mechanism for Accurate and Quiet Pan/Tilt

Incorporates Direct Drive Motor that offers precise, highly responsive pan/tilt and silent movement compare to the normal stepping motor mechanism.



## RTMPS Protocol

KY-PZ100 supports RTMPS protocol. Facebook Live is requiring all encoders to use the RTMPS protocol from May 2019.

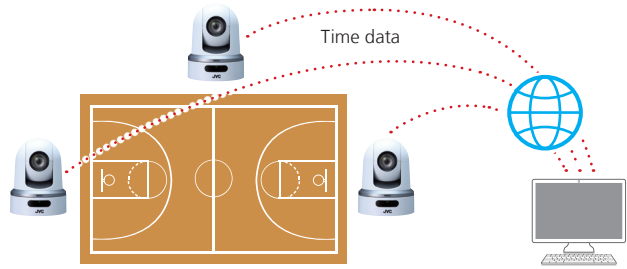
## Supports Exchange Format (U model only)

## Standard Protocol via LAN Connection

## Tally Preview Display (RM-LP100 over V0200)

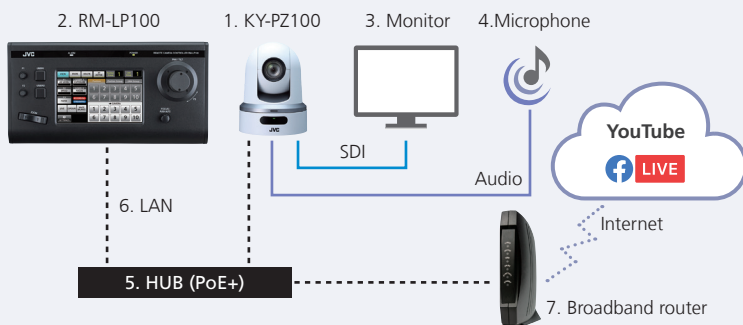
## NTP Protocol for Multi-Camera Synchronization

KY-PZ100 is equipped with multi-camera synchronization, Network Time Protocol synchronized encoders. Suitable for compact live production and streaming studio for live events.



*Live streaming from sports, concerts, special events, corporate meetings, worship services, and more!*

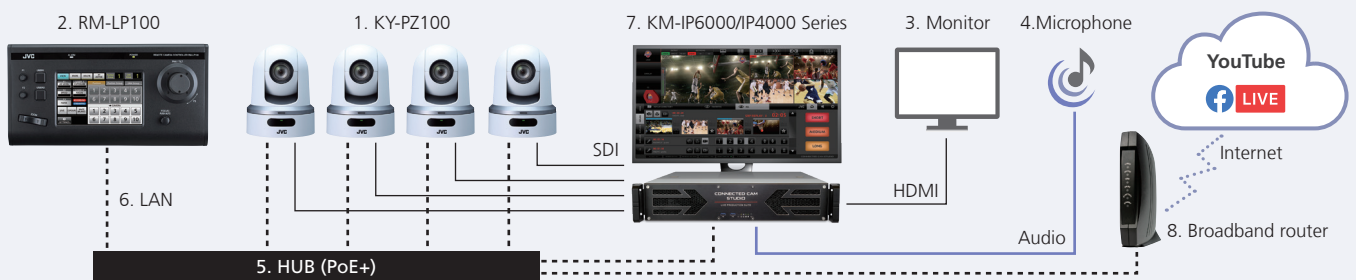
## Simple Streaming System with a Single PTZ Camera and a Controller



Controlling a single PTZ camera with a controller.

Item	Model	Description	Qty
1	KY-PZ100B/W	HD PTZ Remote Camera	1
2	RM-LP100	Remote Camera Controller	1
3	Monitor		1
4	Microphone		1
5		HUB (PoE+)	1
6	Internet connection	LAN Cable	3
7		Broadband Router (to connect the Internet)	1

## Advanced Streaming System with Multiple PTZ Cameras and a Mixer



Controlling four PTZ cameras with a controller and a mixer.

Item	Model	Description	Qty
1	KY-PZ100B/W	HD PTZ Remote Camera	4
2	RM-LP100	Remote Camera Controller	1
3	Monitor		1
4	Microphone		1

Item	Model	Description	Qty
5		HUB (PoE+)	1
6	Control	LAN Cable	7
7	KM-IP6000 Series KM-IP4000 Series	CONNECTED CAM STUDIO	1
8	Internet connection	Broadband Router (to connect the Internet)	1

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