

A Guide to Live ROI Production with a Single Camera

ROI stands for Region of Interest. In a popular application for ROI, you can take a 4K camera and break it up into different camera angles.

Examples of ROI



Benefits of ROI Productions

Customers who have been using ROI tools have eliminated the need for multiple cameras usually in venues where installing cameras is either difficult or cost prohibitive. Here are some examples of ROI applications:

- Panel Discussions
- City Council Meetings
- Live Music Performances
- Houses of Worship

Four Cameras for traditional production



One Camera for ROI production



Datavideo Solutions to ROI

How do you get started with producing live ROI video events? It all starts with the camera. Even though any 4K camera will work with our ROI processors, Datavideo has two options which have been proven to be very effective for ROI production.

PTC-280



- 4K60p
- 12X optical Zoom (30-40ft zoom distance)
- Great in low light
- IP, RS-422, or IR remote control

PTC-300



- 4K60p
- 20X optical Zoom (50-75ft zoom distance)
- Great in low light
- IP, RS-422, or IR remote control

ROI allows a single 4K camera to be used for multi-camera productions.



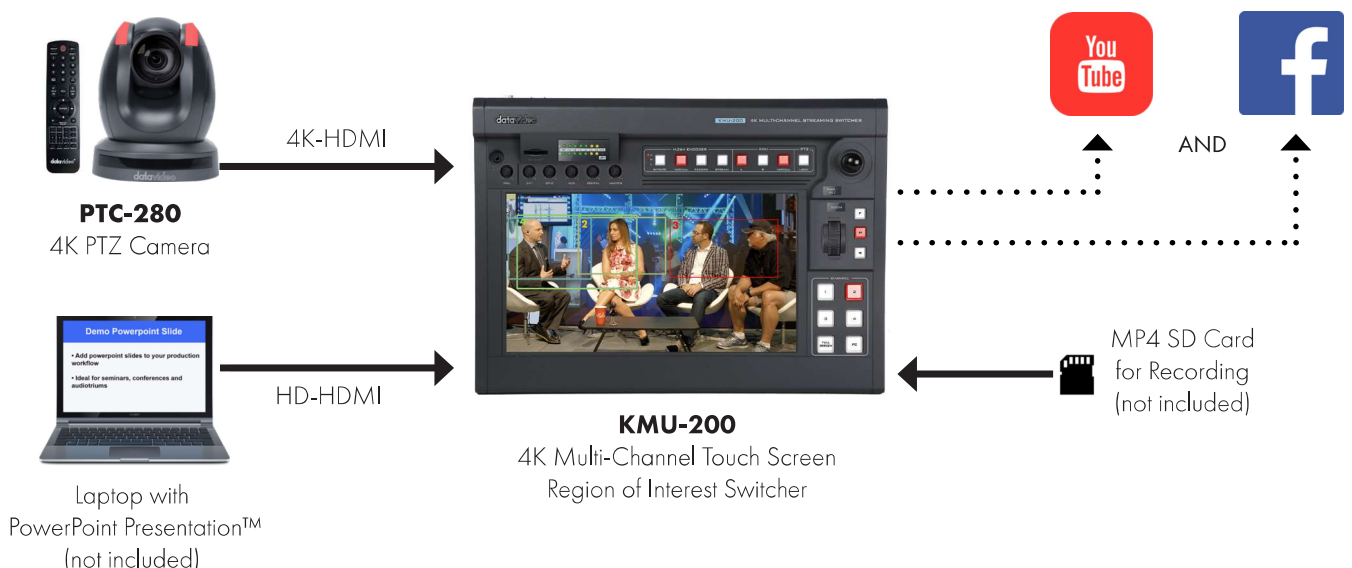
Why PTZ cameras? Even though you don't need to move the camera position during a ROI production, it is important to frame your camera angle to include all the subject matter you may want to include in your production.

4K Multi-Channel Touch Screen ROI Switcher



The KMU-200 is an all-in one solution for switching ROI productions. KMU-200 includes a 15-inch touchscreen monitor, joystick and zoom control for ROI selection, streaming and recording encoder built-in, XLR inputs for audio embedding, and a 6-button switcher to select PGM shots. It includes a second HDMI input to allow for a second non-ROI camera angle, or a laptop for PPT. KMU-200 is designed for smaller venues or productions such as small house of worship, podcasts, town council meetings and any smaller venue event.

KMU-200 Workflow



4K Multicamera ROI Processor

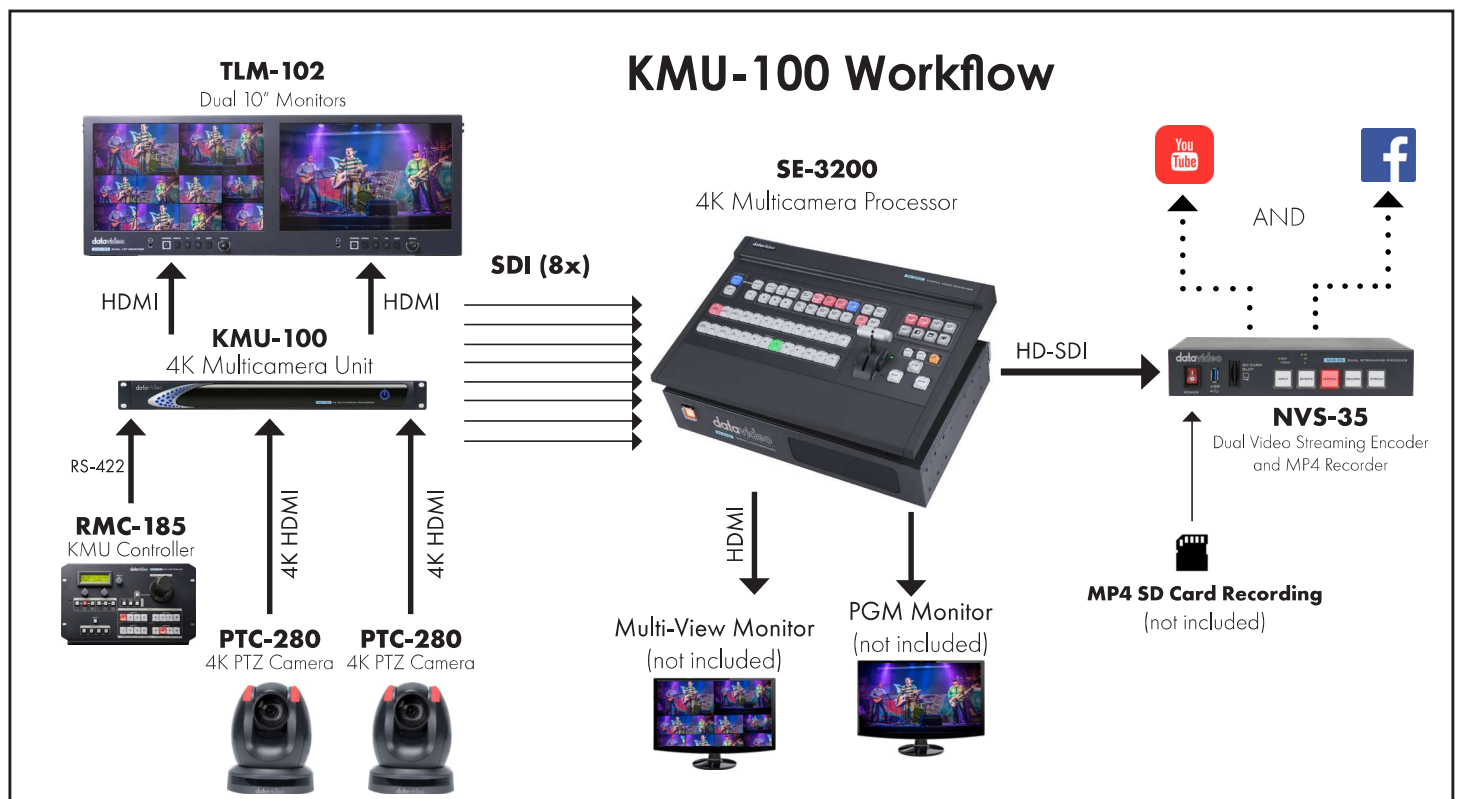


The KMU-100 allows the ability to process 2 separate 4K camera inputs for up to 8-ROI HDSDI outputs, which can be connected to any HDSDI switcher. The ROI can be controlled with either software using a PC, or a stand-alone RMC-185 controller. The RMC-185 allows the operator to control angles, crop and size to fit the needs for the production.

KMU-100 REAR



The KMU-100 can be used for larger venues including city council, larger house of worship, and stage productions where more angles are needed.



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