

LDX 180 CAMERA

Bringing Cinematic Depth to Media Production Workflows



The LDX 180 is the latest addition to the LDX 100 Camera Series, offering a unique solution for incorporating cinematic aesthetics into live productions.

The demand for a cinematic aesthetic — often referred to as the “film look” — is growing in live productions, particularly for select camera positions. Traditional film settings, such as a frame rate of 24p and a reduced shutter angle, have been supported in previous versions of the LDX® 100 Series. However, these settings are not always practical in live environments due to the fast-paced nature of such productions. As a result, the focus is shifting toward achieving a shallower depth of field, which is influenced by both the lens’s focal length and the imager size.

In many shooting situations, even the smaller 2/3-inch imagers can produce a depth of field that is too shallow for practical use, while larger sensors often create an even shallower field, requiring extremely precise focusing to avoid unwanted blur. Rather than relying solely on larger imagers, the most effective approach is to select cameras with imager sizes that are best suited to the specific requirements of the production.

The perfect “triple” for high-end live productions with filmic look at some positions

Series at a Glance			
	LDX 135/LDX C135	LDX 150/LDX C150	LDX 180
Imager	3x 2/3-inch		1x S35
Image capture	Global Shutter		
Lens mount	B4		PL
Pixel count	24.9M (3x 4K imagers with 8.3M each)		51.8M (1x 10K imager)
Speed support	1x UHD / 1x HD	Up to 3x UHD / 6x HD	1x UHD / 1x HD
XCU connection	Yes		
DirectIP	Option		
NativeIP	Option		
JPEG XS	Option		
Summary	Highest performance for all single-speed applications	Highest performance for all high-speed applications	Filmic look in all live applications



Figure 1 – Comparing large depth of field and shallow depth of field (simulated image)

A well-rounded live production typically involves a variety of camera types, including standard, super slow-motion, wireless, and compact cameras. Each of these cameras must provide uniformity in color reproduction, gradation, and sharpness. Achieving this consistency is critical, and it is made possible through either consistent signal processing or compensatory solutions across the entire camera setup.

The LDX 180, as the latest addition to the LDX 100 Series, offers a unique solution to this challenge. Equipped with a specially developed S35 CMOS imager, the LDX 180 allows for the achievement of cinematic aesthetics without sacrificing the features and functionalities that are characteristic of the LDX 100 Series. One of the standout features of this new imager is its global shutter operation, which ensures superior performance even under the most demanding shooting conditions, such as those encountered in LED wall and AR/VR applications. The global shutter technology prevents issues like motion blur, which is crucial in dynamic live production environments.

Beyond the larger imager, the LDX 180 supports all the features and capabilities found in other models within the LDX 100 Series. These include optional NativeIP operation and JPEG XS compression, which enhance both workflow efficiency and video quality. The LDX 180 also offers flexible licensing options, such as daily and perpetual licenses, ensuring that the camera setup can adapt to various production needs. Additionally, the camera is equipped with an NFC-based status display for easy monitoring, as well as a range of other advanced functions designed to meet the rigorous demands of live production.

With the introduction of the LDX 180, we expand the range of applications that can be seamlessly covered by the LDX 100 Series. The combination of cinematic depth and live production capabilities makes the LDX 180 an ideal choice for projects that demand both high-quality visuals and versatile performance.

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

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