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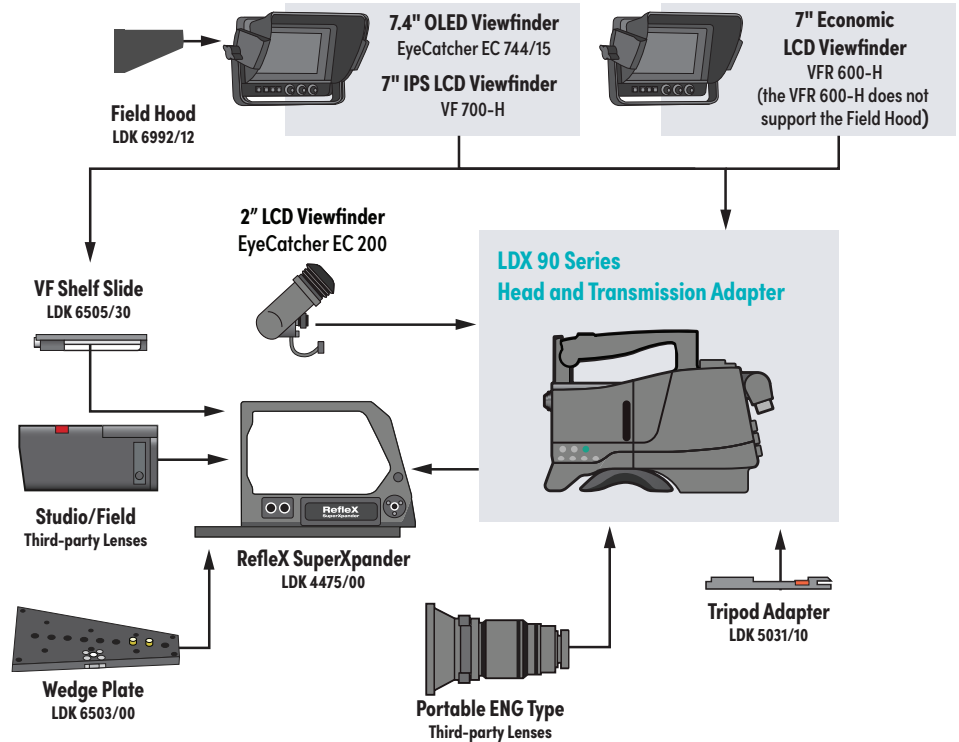
LDX Cameras Accessories



Complete your camera system with hand-held or tripod-mounted options to fit all live production needs. LDX cameras offer a variety of viewfinder options for different resolutions, brightnesses, and viewing conditions. Accessories may be interchanged within a camera series to match production needs.

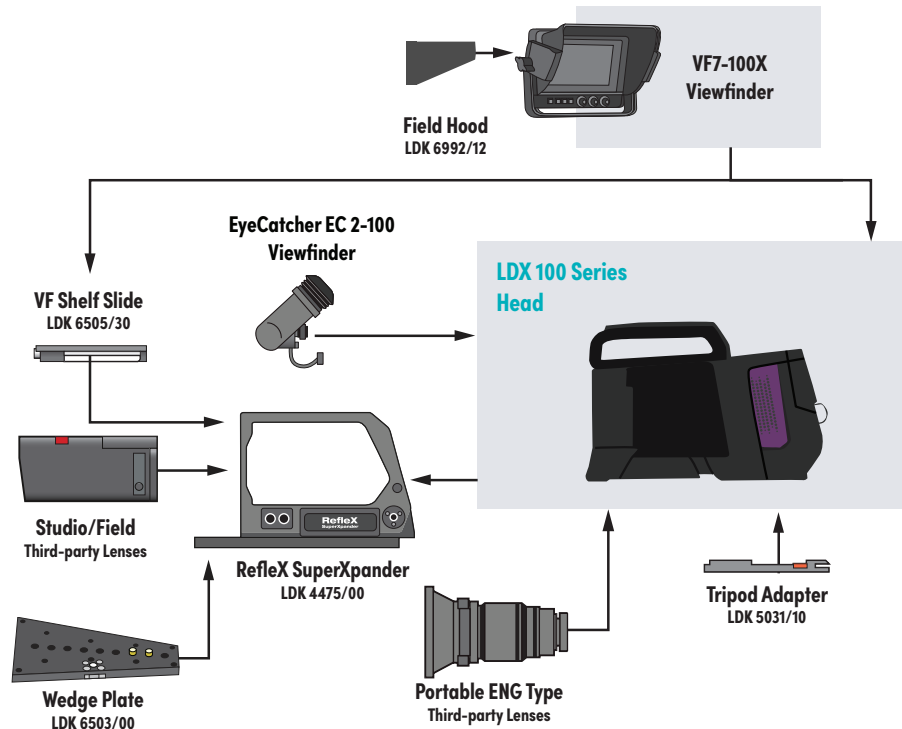
LDX 90 Series Accessories

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VF 700-H Viewfinder

The VF 700-H viewfinder for the Grass Valley LDX cameras has native HD resolution in addition to high brightness and contrast as well as fast refresh rate, making it ideal for both indoor and outdoor use.

The VF 700-H is a compact, high-quality, flat panel color viewfinder designed to work with Grass Valley LDX system cameras. The stylish design allows for direct mounting to the mini wedge plate of the camera head in both EFP and SuperXpander configurations.

With native HD 1920x1080 pixels, panel focusing becomes easy. In combination with high brightness and contrast, and a fast display refresh

rate, the VF 700-H is the perfect color viewfinder for both indoor and outdoor applications.

The VF 700-H color viewfinder has an intuitive menu structure which not only allows for settings of the viewfinder, but can also be used to call up the camera system menu via the viewfinder controls.

Three rotary controls, for contrast, brightness and peaking settings, are



easily accessible at the front panel. In addition, three user assignable push buttons are located at the front bezel of the viewfinder.

The color temperature of the display can be adjusted to match the operator's personal preference without any affect on the main video signal, allowing the operator to match the display color temperature with the color temperature of the scene.

Key Features

- 7-inch IPS LCD panel with LED backlight
- Bonded LCD screen for reduced reflections
- High brightness and contrast
- Full HD resolution with 1920x1080 pixels
- Adjustable box and markers
- Camera menu access
- Supports all current HD formats
- Supports 4K/UHD operation
- Fast response time
- EFP and SuperXpander use
- Easy accessible front controls
- Robust magnesium housing
- Compatible with LDX 90 Series camera systems

Specifications

Connectors

Camera connector: 20-pin Hirose

Controls

Menu button
3 assignable user buttons
Brightness rotary control
Contrast rotary control
Peaking rotary control

Indicators

LED indicators front:

ISO (yellow)
On-air (red)
Call (green)

LED indicators back:

2x on-air (left/right) adjustable

General

Power consumption: 12W (supplied by camera head)

Operating temperature: -20°C to +45°C (-4°F to 113°F)

Storage temperature: -25°C to +70°C
(-13°F to 158°F)

Weight: 1.8 kg (3.97 lbs.)

LCD*

Diagonal size: 177.8 mm (7 in.)

Active video: 16:9 1920 (H) x 1080 (V) pixel

Viewing angle: 170° horizontal, 170° vertical

Response rate: 23 ms typical

Performance

Color depth: 16.7 million colors

8-bit color

Brightness: 700 Cd/m²

Contrast ratio: 800:1

Color temperature: 6500K (adjustable)

Pixel pitch: 0.081 x 0.081 mm

Supported formats: All current HD formats

Input signals: Y,Pr,Pb

Supplied Accessories

Complete mounting kit

Short sunhood

Cabling

User's guide

* The viewfinder's LCD panel is manufactured using high-precision technology that yields a pixel response of 99.99% or higher.

EyeCatcher EC 200 Viewfinder



The eyes are the most important tools used during a production. Every detail of a shot is important—and the operator must be able to rely on what they are seeing. The **EyeCatcher EC 200** color ocular viewfinder provides users with the confidence to know what they see is what is also being seen in the control room and by viewers.

The Grass Valley EyeCatcher EC 200 is a high performance color LCD ocular viewfinder for the LDX 90 Series camera heads. It is part of a full line of state-of-the-art color viewfinders and is very feature-rich with an intuitive user interface. The EyeCatcher viewfinder also has a stylish look and compact design.

EyeCatcher EC 200 offers the best possible image performance, high-speed response time, QHD resolution of 960x540 pixels and a diagonal size of 5.1 cm (2.0 in.). The controls are easy and flexible, similar to the Grass Valley 7-inch and 7.4-inch color LCD viewfinders. It comes with two (task) assignable user buttons and a -3 to +1 diopter compensation range.

Key Features

- Stylish look and compact design
- Fully compatible with all LDX 90 Series cameras
- Offers the best possible image performance:
 - High resolution
 - Fast response
- High brightness and contrast ratio
- Easy and flexible to use
- Brightness, contrast and peaking adjustment with rotary controls
- Color/monochrome picture switchable
- Tally on-low-off switch
- Operator-only tally indicator
- Underscan mode for full picture visibility off shoulder
- 2 (task) assignable buttons
- Diopter compensation range

Specifications

Connectors

Camera connector: 20-pin Hirose

Controls

2 assignable user buttons
Brightness rotary control
Contrast rotary control
Combined menu/Peaking rotary control

Indicators

LED indicators inside:

ISO (yellow)
On-air (red)
Call (green)

LED indicators front:

1x on-air (red) adjustable

General

Power consumption: 3.9W (supplied by camera head)
Operating temperature: -20°C to +45°C (-4°F to 113°F)
Storage temperature: -25°C to +70°C (-13°F to 158°F)
Weight: 900 grams (2.0 lbs.)

LCD

Diagonal size: 51 mm (2.0")
Resolution: 960x540 pixels (QHD)
Response rate: 16 ms

Performance

Color depth: 16.7 million colors
8-bit color
Brightness: 250 Cd/m²
Contrast ratio: 200:1
Color temperature: 6500K (adjustable)
Pixel pitch: 0.047 mm x 0.047 mm
Supported formats: All current HD formats
Input signals: Y,Pr,Pb

The viewfinder's LCD panel is manufactured using high-precision technology that yields a pixel response of 99.99% or higher.

VFR 600-H Viewfinder

The **VFR 600-H** viewfinder for the Grass Valley LDX cameras is a very economic solution for HD focusing, mainly targeted for less demanding studio applications.

The VFR 600-H is a compact, lightweight and economic, flat panel color viewfinder designed to work with Grass Valley LDX system cameras. The stylish design allows for direct mounting to the mini wedge plate of the camera head in both EFP and SuperXpander configurations.

With 1280x800 pixels panel resolution, focusing becomes easy in all HD applications. In combination with high brightness and contrast,

the VFR 600-H is a good color viewfinder for both indoor and outdoor applications.

The VFR 600-H color viewfinder has a menu structure which allows for settings of the viewfinder.

Four rotary controls, for contrast, brightness, saturation and peaking settings, are easily accessible at the front panel. In addition, five user assignable push buttons are located at the front bezel of the viewfinder.



The color temperature of the display can be adjusted to match the operator's personal preference without any affect on the main video signal, allowing the operator to match the display color temperature with the color temperature of the scene.

Key Features

- 7-inch IPS LCD panel
- Good brightness and contrast
- HD resolution with 1280x800 pixels
- Adjustable box
- Supports all current HD formats
- Pixel-to-pixel mode selectable
- Supports 4K/UHD operation
- EFP and SuperXpander use
- Easy accessible front controls
- Compatible with LDX 90 Series camera heads

Specifications

Connectors

Camera connector: 20-pin Hirose

Controls

Menu button
5 assignable user buttons
Brightness rotary control
Contrast rotary control
Peaking rotary control
Saturation rotary control

Indicators

LED indicators front:

On-air (red)

LED indicators back:

On-air

General

Power consumption: 11W (supplied by camera head)

Operating temperature: -10°C to +40°C (14°F to 104°F)

Weight: 1.5 kg (3.3 lbs.)

LCD*

Diagonal size: 177.8 mm (7 in.)

Active video: 16:9 1280 (H) x 800 (V) pixel

Viewing angle: 178° horizontal, 178° vertical

Performance

Color depth: 16.7 million colors

8-bit color

Brightness: 400 Cd/m²

Contrast ratio: 800:1

Color temperature: 6500K (adjustable)

Pixel pitch: 0.117 x 0.117 mm

Supported formats: All current HD formats

Input signals: Y,Pr,Pb

Supplied Accessories

Complete mounting kit

Short sunhood

Cabling

User's guide

* The viewfinder's LCD panel is manufactured using high-precision technology that yields a pixel response of 99.99% or higher.

EyeCatcher EC 744 Viewfinder



The OLED technology of the **EyeCatcher EC 744/15** combines the benefits of traditional black and white CRT viewfinders with the magnificent color reproduction of today, including support of the extended color gamut as defined by ITU-R BT.2020, to meet the performance needs for the most demanding of live action applications.

The EyeCatcher EC 744/15 7.4-inch HD OLED color viewfinder is the perfect match for the LDX system cameras. Its compact size and robust articulated mounting bracket make it ideal for use with a SuperXpander large lens adapter as well as in EFP configurations. The articulated mounting bracket allows the operator to move the viewfinder in many positions including straight behind the camera, which avoids blocking the view of the audience positioned behind the camera.

The EyeCatcher EC 744/15 is a compact, high-quality, 7.4-inch flat panel color viewfinder designed to work with Grass Valley LDX cameras.

The stylish design allows for direct mounting to the mini wedge plate of the camera head in both EFP and SuperXpander configurations.

The OLED panel combines high brightness, high contrast ratio and high resolution with wide horizontal and vertical viewing angles, as well as an extremely fast refresh rate. This makes the EyeCatcher EC 744/15 the perfect color viewfinder for even the most demanding applications – which include (fast moving) sports acquisition, theatrical and show productions.

The EyeCatcher has an intuitive menu structure which not only allows

operators to change the viewfinder settings, but can also be used to call up the camera system menu via the viewfinder controls.

Three rotary controls – for contrast, brightness and peaking settings – are easily accessible at the front panel. In addition, three user assignable push buttons are located at the front bezel of the viewfinder. The color temperature of the display can be adjusted to match the operator's personal preference, without affecting the main video signal, allowing the operator to match the display color temperature with the color temperature of the scene.

Key Features

- 7.4-inch OLED panel
- 16:9 aspect ratio
- High brightness and extremely high contrast
- Position adjustable 1:1 pixel zoom function
- Adjustable box and markers
- Camera menu access
- Articulated mounting bracket
- Supports all current HD formats
- Supports 4K/UHD operation
- Very fast refresh rate
- SuperXpander and EFP use
- Easy accessible front controls
- Robust magnesium housing
- Supports ITU-R BT.2020 extended color gamut
- Compatible with LDX 90 Series camera heads



Specifications

Connectors

Camera connector: 20-pin Hirose

Controls

Menu button
3 assignable user buttons
Brightness rotary control
Contrast rotary control
Peaking rotary control

Indicators

LED indicators front:

ISO (yellow)
On-air (red)
Call (green)

LED indicators back:

2x on-air (left/right) adjustable

General

Power consumption: 12W (supplied by camera head)
Operating temperature: -20°C to +45°C (-4°F to 113°F)
Storage temperature: -25°C to +70°C (-13°F to 158°F)
Weight: 2.94 kg (6.5 lbs.)

OLED*

Diagonal size: 7.4"
Active video: 16:9 960 (H) x 540 (V) pixels (QHD)
Viewing angle: 170° horizontal, 170° vertical

Performance

Color depth: 1.07 billion colors, 10-bit color
Brightness: 350 Cd/m²
Contrast ratio: 1,000,000:1
Color temperature: 6500K (adjustable)
Pixel pitch: 0.171 x 0.171 mm
Supported formats: All current HD formats
Input signals: Y,Pr,Pb

Supplied Accessories

Extensive pan/tilt mounting bracket
Short sunhood
Cabling
User's guide

* The viewfinder's OLED panel is manufactured using high precision technology that yields a pixel response of 99.99% or higher.

EYECATCHER EC 2-100 Viewfinder



The eyes are the most important tools used during a production. Every detail of a shot is important—and the operator must be able to rely on what they are seeing. The **EyeCatcher EC 2-100** color ocular viewfinder provides users with the confidence to know what they see is what is also being seen in the control room and by viewers.

The Grass Valley EyeCatcher EC 2-100 is a high performance color LCD ocular viewfinder for the LDX camera heads. It is part of a full line of state-of-the-art color viewfinders and is very feature-rich with an intuitive user interface. The EyeCatcher viewfinder also has a stylish look and compact design.

EyeCatcher EC 2-100 offers the best possible image performance, high-speed response time, QHD resolution of 960x540 pixels and a diagonal size of 5.1 cm (2.0 in.). The controls are easy and flexible, similar to the Grass Valley 7-inch and 7.4-inch color LCD viewfinders. It comes with two (task) assignable user buttons and a -3 to +1 diopter compensation range.

Key Features

- Stylish look and compact design
- Offers the best possible image performance:
 - High resolution
 - Fast response
- High brightness and contrast ratio
- Ergonomic design for comfortable shooting
- Easy and flexible to use
- Intuitive viewfinder menu
- Camera menu easily accessible via viewfinder controls
- Brightness, contrast and peaking adjustment with rotary controls
- Color/monochrome picture switchable
- Tally on-low-off switch
- Operator-only tally indicator
- Underscan mode for full picture visibility off shoulder
- 2 (task) assignable buttons
- Adjustable diopter
- Compatible with all LDX 100 Series cameras

Specifications

Connectors

Camera connector: Future proof 9-pin Fisher connector

Controls

2 assignable user buttons
Brightness rotary control
Contrast rotary control
Combined menu/Peaking rotary control

Indicators

LED indicators inside:

ISO (yellow)
On-air (red)
Call (green)

LED indicators front:

1x on-air (red) adjustable

General

Power consumption: 3.9W (supplied by camera head)
Operating temperature: -20°C to +45°C (-4°F to 113°F)
Storage temperature: -25°C to +70°C (-13°F to 158°F)
Weight: 900 grams (2.0 lbs.)

LCD

Diagonal size: 51 mm (2.0")
Resolution: 960x540 pixels (QHD)
Response rate: 16 ms

Performance

Color depth: 16.7 million colors
8-bit color
Brightness: 250 Cd/m²
Contrast ratio: 200:1
Color temperature: 6500K (adjustable)
Pixel pitch: 0.047 mm x 0.047 mm
Supported formats: All current HD formats
Input signals: Y,Pr,Pb

The viewfinder's LCD panel is manufactured using high-precision technology that yields a pixel response of 99.99% or higher.

Note: EyeCatcher EC 2-100 is compatible with the LDX 100 series cameras only

VF7-100X Viewfinder

The VF7-100X viewfinder for the Grass Valley LDX cameras has native HD resolution in addition to high brightness and contrast as well as fast refresh rate, making it ideal for both indoor and outdoor use.

The VF7-100X is a compact, high-quality, flat panel color viewfinder designed to work with Grass Valley LDX system cameras. The stylish design allows for direct mounting to the mini wedge plate of the camera head in both EFP and SuperXpander configurations.

With native HD 1920x1080 pixels, panel focusing becomes easy. In combination with high brightness and contrast, and a fast display refresh rate, the VF7-100X is the perfect color viewfinder for both indoor and outdoor applications.

The VF7-100X color viewfinder has an intuitive menu structure which not only allows for settings of the viewfinder,

but can also be used to call up the camera system menu via the viewfinder controls.

Three rotary controls, for contrast, brightness and peaking settings, are easily accessible at the front panel. In addition, three user assignable push buttons are located at the front bezel of the viewfinder.

The color temperature of the display can be adjusted to match the operator's personal preference without any affect on the main video signal, allowing the operator to match the display color temperature with the color temperature of the scene.



Key Features

- 7-inch IPS LCD panel with LED backlight
- Bonded LCD screen for reduced reflections
- High brightness and contrast
- Full HD resolution with 1920x1080 pixels
- Adjustable box and markers
- Camera menu access
- Supports all current and future formats
- Supports 4K/UHD operation
- Fast response time
- Easy accessible camera menu via viewfinder controls
- Versatile articulated bracket
- Compatible with all LDX 100 Series cameras

Ordering

Connectors

Camera connector: Future proof 9-pin Fisher connector

Controls

Menu button
3 assignable user buttons
Brightness rotary control
Contrast rotary control
Peaking rotary control

Indicators

LED indicators front:

ISO (yellow)
On-air (red)
Call (green)

LED indicators back:

2x on-air (left/right) adjustable

General

Power consumption: 12W (supplied by camera head)

Operating temperature: -20°C to +45°C (-4°F to 113°F)

Storage temperature: -25°C to +70°C (-13°F to 158°F)

Weight: 1.8 kg (3.97 lbs.)

LCD*

Diagonal size: 177.8 mm (7 in.)

Active video: 16:9 1920 (H) x 1080 (V) pixel

Viewing angle: 178° horizontal, 178° vertical

Response rate: 17 ms typical

Performance

Color depth: 16.7 million colors

8-bit color

Brightness: 700 Cd/m²

Contrast ratio: 800:1

Color temperature: 6500K (adjustable)

Pixel pitch: 0.081 x 0.081 mm

Supported formats: All current HD formats

Input signals: Y,Pr,Pb

Supplied Accessories

Complete mounting kit

Short sunhood

Cabling

User's guide

* The viewfinder's LCD panel is manufactured using high-precision technology that yields a pixel response of 99.99% or higher.

Note: VF7-100X is compatible with the LDX 100 series cameras only

RefleX SuperXpander

The **RefleX SuperXpander** is the perfect match for LDX cameras using the unique 3G Transmission system or XF Fiber Transmission system and turns a comfortable shoulder camera quickly and easily into a full-featured studio camera.

Grass Valley broadcast products offer production professionals the most comprehensive multiformat solutions for acquisition, production, storage and playback, as well as a strong foundation for centralized, proactive status and activity monitoring. The Grass Valley RefleX SuperXpander is such a solution. Compatible with the latest 3G Transmission family and the XF Fiber Transmission system, it supports box-type lenses, teleprompters and high-resolution viewfinders.

For sports and events coverage, the use of large zoom lenses is a common requirement. The RefleX SuperXpander acts as a large lens adapter, rapidly converting a portable camera into a full-featured studio camera.

The lightweight RefleX SuperXpander provides secure mounting and balancing for the largest prompter monitors. For increased simplicity, the camera can remain mounted inside the RefleX SuperXpander housing for transport, saving rigging time and precious space, while ensuring that the camera is aligned and ready to go immediately. Alternatively, the camera can be mounted or released from the housing quickly so it can be switched between pedestal, box lens and handheld applications working with an ENG style lens — even during a live program.

The RefleX SuperXpander can be used with all Grass Valley viewfinders, providing an unprecedented degree of freedom. The unique design of the RefleX SuperXpander system puts even a large viewfinder close to the optical axis of the camera, making camera

movements and positioning more intuitive for the operator to ensure that the shot is right every time.

The new hot shoe connector between the camera and the RefleX SuperXpander provides all power and signal connectivity — making it quick, convenient and reliable, with no need for extra cabling. The hot shoe connector also makes the RefleX SuperXpander transmission system-agnostic — 3G Fiber, 3G Triax and XF Fiber camera systems can be used with the same SuperXpander without the need of switching modules.

For operator convenience, the RefleX SuperXpander is equipped with a functional control panel placed at the rear of the camera. All camera functions can be selected through this panel with its intuitive button layout, with three of the buttons assignable by the operator. These buttons have a sophisticated backlight to improve readability in all lighting conditions and to indicate the status of the buttons.

Two utility power connectors are provided to drive external equipment. Each connector (XLR-4 female) is rated at 13.8V/8 amps. or 120W maximum (combined).



RefleX SuperXpander – Fast and Easy Docking

Key Features

- Supports LDX cameras
- Transmission system-agnostic
- Supports 3G Transmission and XF Fiber Transmission products
- Improved rapid mounting of camera and box lens
- Direct connection of viewfinder to the camera
- Rock-solid configuration for all sizes of large lenses
- Convenient camera control panel at the rear
- Three assignable control buttons
- Mounting and balancing available for all prompter monitors
- Two fixed utility output connectors: 13.8V@8A each or 120W max. (combined)

Specifications

- Dimensions (L x W x H): 526 x 287 x 347 mm (20.7 x 11.3 x 13.7 in.)
- Weight (approx.): 8.5 kg (18.7 lbs.)
- Operating temperatures: -20°C to +45°C (-4°F to +113°F)
- Storage temperatures: -20°C to +60°C (-4°F to +140°F)
- Power supply: supplied by the base station
- Power consumption: 250 VA max. fully equipped (supplied by the base station)
- Utility power outputs: 2x 13.8 VDC XLR-4 female connector, 120 W max. (combined)
- Lens interface: 36-pin Centronics female connector





Ordering

Ordering Options for LDX 90 Series

- VF 700-H**
7" IPS LCD viewfinder
- VFR 600-H**
7" Economic LCD viewfinder
- EC 744/15**
EyeCatcher 7.4" OLED viewfinder
- EC 200**
EyeCatcher 2" LCD viewfinder

Ordering Options for LDX 100 Series

- VF7-100X**
7" Native HD LCD viewfinder
- LDK 6992/12**
Field Hood for VF7-100X
- EC 2-100**
EyeCatcher 2" LCD viewfinder

Ordering Options for both LDX 90 and LDX 100 Series

- LDK 4475/00**
RefleX SuperXpander
- LDK 6505/30**
VF Shelf Slide
- LDK 6505/00**
Wedge Plate
- LDK 5031-10**
Tripod Adapter

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

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