Focus 75 Live
Highly Affordable 720p/1080i Switchable HD System Cameras

Superb switchable-format HD camera with legendary Grass Valley image performance.

The Focus 75 Live system cameras from Grass Valley, a Belden Brand, represent a new entry level into the company’s legendary imaging quality.

Three Xensium-FT CMOS imagers with global shutter — similar to CCD sensors — do not produce any of the rolling shutter artifacts seen with other CMOS-based cameras, such as sensitivity to fast camera movements with short exposure time or sensitivity to short light flashes.

This makes Focus 75 Live cameras ideal for smaller live studio and field applications, including regional broadcast stations, SNG vans, small OB vans, university sports productions, staging and houses of worship.

The cameras offer strong image performance by always capturing the image in full progressive 1920x1080 HD resolution and downconverting to either 1080i50/59.94 or 720p50/59.94 (user switchable). In addition, the highest quality SD signals are available at the camera base unit.

The high level of camera sensitivity also allows less lighting to be used, and this contributes to lower power consumption from both lights and air conditioning. In addition, the cameras can be used with smaller iris settings to deliver an increased depth of field, while also allowing operators to hold a tighter focus.

Focus 75 Live cameras use standard B4 2/3-inch lens mounts to accommodate HD lenses that may have been already purchased or are on-hand.

The cameras offer a high level of operational excellence. Button layouts and control knobs are ergonomically designed to allow operators to make adjustments quickly. With the easily accessible and separated “info” knob, all important information is displayed in the viewfinder instantly. The user-friendliness of Focus 75 Live cameras has also been strengthened with a streamlined menu structure which allows operators to access commonly used functions very rapidly.
**KEY FEATURES**

- Fully digital FT CMOS imagers with global shutter operation offer absolute smear-free images under all conditions
- Switchable between 720p and 1080i acquisition formats
- Best possible resolution and image sharpness from over-sampling the full HD progressive image
- Highest sensitivity in combination with the best noise performance for the best results, even under difficult lighting conditions
- Highest quality mechanical construction identical to high-end Grass Valley LDX Series broadcast camera systems

**SPECIFICATIONS**

**Camera Head**

**General:**
- Temperature range: -10° to +45° C (-4° to +113° F) (operating)
- Weight: 2.1 kg (4.6 lbs.) (including shoulder pad)
- Dimensions: width: 170 mm, depth: 200 mm, height: 180 mm (6.7 x 7.9 x 7.1 in.)
- Power: Supplied through the transmission adapter

**Camera:**
- Pick-up device: 3x2/3” Xensium-FT CMOS
- Picture elements: 1920x1080
- Smear: no vertical smear
- Shutter: no mechanical shutter
- Optical system: F:1.4 prism
- Lens mount: 2/3” Bayonet type
- Optical filter wheels: 1x motorized wheel: clear, 1/4 ND, 1/16 ND, 1/64 ND
- Electronic color correction: 3200° K, 5600° K, 7500° K, FL, 2 ND, 1/64 ND
- White balance
- Exposure time
- Gain selection
- Color bar
- On/off
- 2 user assignable
- Standard file recall
- Filter wheel selection
- Intercom production/engineering
- Menu control
- Info
- Triax executions: Fischer, ARD, Lemo-4E, Lemo-3T, BBC-Lemo and Trilock types available
- Triax connection: Swivel triax connector (Fischer, ARD, Lemo-4E, Lemo-3T, BBCLEMO and Trilock types available)
- Triax cable length: 1,500m (5,000 ft.) max. with 14 mm (0.55”) cable (specified for Draka triax cable)
- Analog VF/Audio line output: BNC connector 1.0 Vp-p; 75Ω
- VF output or main output: BNC connector HD-SDI 0.8 Vp-p; 75Ω,
- Selectable:
  - Main
  - VF-HD
  - VF-SD
  - VF-Ext
- EXT video output connector: BNC connector HD-SDI 0.8 Vp-p; 75Ω
- Rear microphone inputs: 2x XLR-3, balanced, +48V phantom power
- Intercom: XLR-5 with 3 channels (engineering, production and program)

**Focus Triax Adapter**

**Power requirements:** Triax powered
- Operating temperatures: -10 to +45° C (-4° to +113° F)
- Storage temperatures: -25 to +70° C (-13 to +158° F)
- Weight (approx.): 2.1 kg (4.6 lbs.)
- Dimensions (L x W x H): 222.1 x 132.7 x 212.1 mm (8.7 x 5.2 x 8.4 in.) without handgrip
- Fiber connector: Swivel hybrid fiber connector SMPTE ST 304
- Cable length: 3,000m (10,000 ft.) max. using SMPTE ST 311
- Hybrid fiber cable

**Focus Fiber Adapter**

**Power requirements:** Hybrid fiber powered
- Operating temperatures: -10 to +45° C (-4° to +113° F)
- Storage temperatures: -25 to +70° C (-13 to +158° F)
- Weight (approx.): 2.1 kg (4.6 lbs.)
- Dimensions (L x W x H): 222.1 x 132.7 x 212.1 mm (8.7 x 5.2 x 8.4 in.) without handgrip
- Selectable:
  - Main
  - VF-HD
  - VF-SD
  - VF-Ext
- EXT video output connector: BNC connector HD-SDI 0.8 Vp-p; 75Ω
- Rear microphone inputs: 2x XLR-3, balanced, +48V phantom power
- Intercom: XLR-5 with 3 channels (engineering, production and program)
Focus 75 Live and Accessories

Focus 75 Live

- 7" IPS LCD Viewfinder
  - VF 700-H
- 7.4" OLED Viewfinder
  - EyeCatcher EC 744/15

Focus 75 Live

- 2" LCD VF
  - EyeCatcher EC 200

Focus Triax Base Unit

- Tripod Adapter
  - LDK 5031/10

Focus Fiber Base Unit

- AC Power Supply
  - LDK 5903/00
- OCP 400
  - LDK 4640/10
- MCP 450
  - LDK 4650/00

COTS Ethernet Switch

Field Hood

- LDK 6992/12

Portable ENG Type

- Third-party Lenses

Focus Triax Adapter

- Focus Triax Adapter

Focus Fiber Adapter

- Focus Fiber Adapter

Note: For details about accessories, refer to the LDX Series datasheet.

ORDERING

Please contact your authorized Grass Valley representative.

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