



## 4K/HD TELESTRATOR

# FVW-700/700-4K

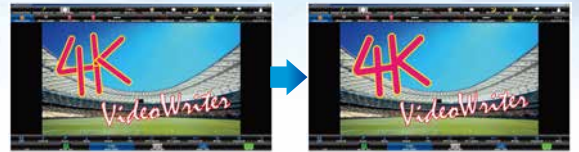
### Finally, a full-featured telestrator for the 4K era

Annotate or draw on video using a touch-screen computer monitor or wirelessly connected tablet as operators check the point of insertion. Freeing operators from having to work at consoles, the system enables a variety of scenarios.



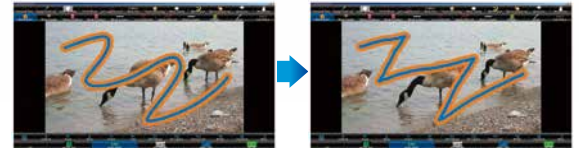
### Edge joining

Using a more advanced edge-rendering algorithm, edges of lines drawn can be recognized as outlines of a larger shape and joined.



### Automatic freehand formation

Improved automatic freehand formation with noise reduction (algorithm) allows smooth objects to be shaped, and sharp angles to be achieved.



### Mosaic conversion for all drawing tools

Including freehand, polygon and others. Create free-form mosaics. Implemented with hardware processing for real-time operations, regardless of the area involved.



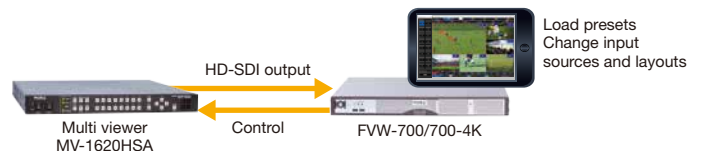
### Chroma keyer

Draw objects that will only cover images of a specified color in the video. For example, specify green to avoid covering players with the objects operators draw. Delay line function available for HD-SDI output.



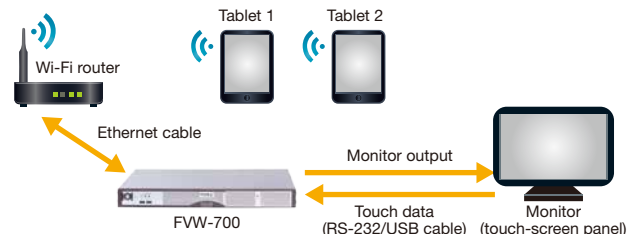
### Multi viewer integration

Load presets on a multi viewer, change input sources, switch between full-screen and multi-window, and create a multi-source environment (optional).



### Simultaneous input from multiple tablets

Control the telestrator wirelessly from multiple tablets running a dedicated app (optional). Allow multiple commentators to draw on the screen wirelessly.



## Lineup

### FVW-7SO HDMI model

Designed for HDMI output and ideal for presentations. Excellent cost-performance in a simple system that combines telestrator software and a video input device.

### FVW-7SO TB2 model

Designed for SDI output. Conveniently portable and perfect on location. Compact, 1U half-rack unit connects to a notebook computer via Thunderbolt™ 2.

### FVW-700 all-in-one model

Designed for SDI output. A 1U standalone unit for broadcast studios and cable TV stations

### FVW-700-4K model

Designed for 4K output. Compact 1RU unit

### FVW-7SO 4K model

Designed for 4K output. Workstation model

## Options

### FVW-7-TRS: Video writer software to use via a tablet

FVW-700/700-4K supports a tablet as a pointing device as well as a mouse and a touch panel. Installing FVW-7-TRS in a tablet synchronizes it with the FVW-700/700-4K operation screen and allows you to transmit touch information. Multiple tablets can be connected with FVW-700/700-4K.

### FVW-7MV: Software to use with multi viewer

FVW-7MV is optional software that links FVW Video Writer software system with FOR-A multi viewer MV-1620HSA. Preset layouts switching, Full/Multi display switching and input source switching become available by connecting a FVW-7MV installed FVW-700/700-4K via network to MV-1620HSA.

## FVW-700/700-4K Datasheet

### 1. Specifications

#### FVW-700 Basic specifications

Temperature	0°C - 40°C
Humidity	20% - 80% (no condensation)
Power	100 VAC - 240 VAC ±10%, 50/60Hz
Consumption	130 VA (127 W) at 100 VAC - 120 VAC 132 VA (110 W) at 220 VAC - 240 VAC
Dimensions	430 (W) x 44 (H) x 500 (D) mm, EIA 1RU 480 (W) (Including rack mount brackets)
Weight	9 kg
Consumables (at 24-hour operation)	Cooling fans: Replace every 3 years Power unit: Replace every 5 years Battery: Replace every 5 years *

\*Yearly battery replacement is recommended when unit is stored without powering on for long periods.

#### FVW-700 Technical specifications

Video format	HD-SDI: 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
Video Inputs	HD-SDI: 1.5 Gbps 75Ω, BNC x 1
Video Outputs	HD-SDI: 1.5 Gbps 75Ω, BNC x 4 (2 outputs for video signal and other 2 for key source signal.)
Genlock Input	BB: NTSC 0.429V(p-p) / PAL 0.45V(p-p) or Tri-level Sync: 0.6V(p-p) 75Ω (termination required) or loopthrough, BNC x 1
Input Lock	-1±0.5H relative to genlock signal phase
I/O Delay	1 frame when the video input phase is same as that of genlock.
Interface	
DVI-I	DVI-I x 1 (1280 x 1024) (Not used)
USB	USB 3.0, Type-A x 4 (2 on the front panel, 2 on the rear panel)
LAN1/LAN2	100BASE-TX/1000BASE-T, RJ-45 x 2
ALARM	9-PIN D-sub (female) x 1 ALARM: Power and fan alarm (Relay make contact output)
RS-232C (SERIAL)	9-pin D-sub (male) x 1
DisplayPort1-4	DisplayPort (1.2) x 4 for control screen output

### FVW-700-4K Basic specifications

Temperature	0°C - 40°C	
Humidity	20% - 80% (no condensation)	
Power	100 VAC - 240 VAC ±10%, 50/60Hz	
Consumption	200 VA (198 W) at 100 VAC - 120 VAC 220 VA (202 W) at 220 VAC - 240 VAC	
Dimensions	430 (W) x 44 (H) x 500 (D) mm, EIA 1RU 480 (W) (Including rack mount brackets)	
Weight	9 kg	
Consumables (at 24-hour operation)	Cooling fans:	Replace every 3 years
	Power unit:	Replace every 5 years
	Battery:	Replace every 5 years *

\*Yearly battery replacement is recommended when unit is stored without powering on for long periods.

### FVW-700 Technical specifications

Video format	HD-SDI: 1080/59.94i, 1080/50i, 720/59.94p, 720/50p 3G-SDI: 1080/59.94p, 1080/50p, 2160/59.94p, 2160/50p (Level-A)
Video Inputs	HD-SDI: 1.5 Gbps 3G-SDI: 3 Gbps 75Ω BNC x 4
Video Outputs	HD-SDI: 1.5 Gbps 3G-SDI: 3 Gbps 75Ω BNC x 8
Genlock Input	BB: NTSC 0.429V(p-p) / PAL 0.45V(p-p) or Tri-level Sync: 0.6V(p-p) 75Ω (termination required) or loopthrough, BNC x 1
Input Lock	-1±0.5H relative to genlock signal phase
I/O Delay	1 frame when the video input phase is same as that of genlock.
Interface	
DVI-I	DVI-I x 1 (1280 x 1024) (Not used)
USB	USB 3.0, Type-A x 4 (2 on the front panel, 2 on the rear panel)
LAN1/LAN2	100BASE-TX/1000BASE-T, RJ-45 x 2
ALARM	9-PIN D-sub (female) x 1 ALARM: Power and fan alarm (Relay make contact output)
RS-232C (SERIAL)	9-pin D-sub (male) x 1
DisplayPort1-3	DisplayPort (1.2) x 3 for control screen output

### Options

FVW-7-TRS	VideoWriter Software to use via a tablet
FVW-7MV	Software to use with Multi Viewer

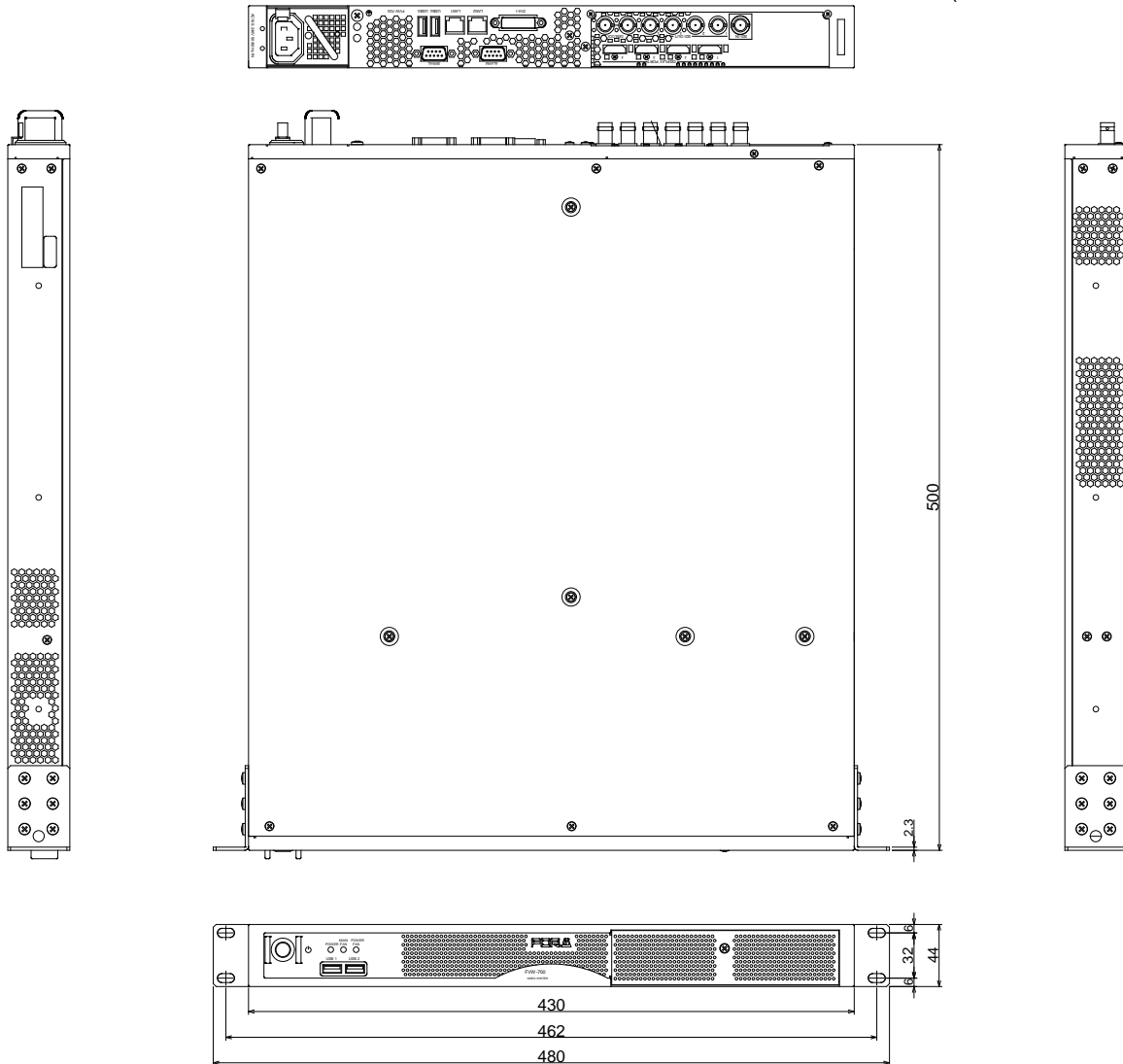
### Accessories

AC cord, EIA rack mount brackets, Rubber feet, CD-ROM and Packing list  
Display port-DVI conversion adapter (FVW-700 only)

**2. External Dimensions**

**FVW-700 External Dimensions**

(All dimensions in mm.)



**FVW-700-4K External Dimensions**

(All dimensions in mm.)

