



HD Variable Frame Rate Camera

VFC-7000 *Flash EYE*



Lens is optional

Compact, lightweight and configured as an all-in-one self-contained unit, the VFC-7000 is an easy to operate variable frame rate camera that is capable of high-speed HD recordings.

- Variable frame rate camera capable of high-speed HD recording
- High-speed 700 fps HD full frame recording
- Frame rate can be varied from 24 to 700 fps
- High-sensitivity CMOS color sensor
- Lens mount: F mount (PL mount option also available)
- Electronic high-speed shutter: Up to 1/200,000 sec for recording fast subjects without blur
- Recording time: 9.8 sec standard (700 fps), can be expanded to 29.5 sec (optional)
- Recording method: Endless recording with built-in memory, saved video can be linked to an external trigger (start, center or end trigger style can be selected)
- Video output: Equipped with 2 channels of HD-SDI output Simultaneous output of live and recorded video
- Genlock capability (BB or Tri-level sync)
- Camera head, main body and recording component all in one integrated structure
- Also supports DC drive, making it optimal for recording outdoors and in other environments with no power source

Specifications

Lens Mount	F mount *PL mount option available
Shutter Speed	Selectable from preset values between 1/Shooting Speed to 1/200,000 sec.
Total Recording Time	(Refer to below)
Memory Division	Undivided or divided into 2, 4, or 8 selectable areas
Video Settings	Gain: 0 dB, 6 dB, or 12 dB selectable White Balance: Selectable from Semi-auto and preset values
HD-SDI Outputs	Channel 1: Outputs live or slow motion video Channel 2: Outputs live video (for viewfinder)
Output Formats	720/59.94p, 720/50p, 1080/59.94i, or 1080/50i
Genlock Input	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or Tri-level sync: ±0.3 V
Genlock Mode	External (BB or Tri-level sync) or Internal
Trigger / Trigger Signal Input	Start, center, end / Input through the operation unit or contact signal
Interfaces	100BASE-T (For connecting to the operation unit)
Temperature / Humidity	0°C to 40°C / 85% or less (no condensation)
Power / Consumption	12 V DC to 17 V DC / 24 W (28 W with full options)
Dimensions	115 (W) x 116 (H) x 244 (D) mm (excluding protruding parts)
Weight	2.2 kg (2.5 kg with full options)

Consumables	Cooling Fan: Replace every 4 years (at normal temperature)
Accessories	Operation unit, AC adapter x 2, AC cord x 2 LAN cable (5m), Operation Manual
Options	VFC-70-30SEC: 16GB memory expansion VFC-70PL: PL lens mount with shims VFC-70MSC: Sync cable (1m)
Simul. recording and playback by two cameras	Possible by connecting with VFC-70MSC option

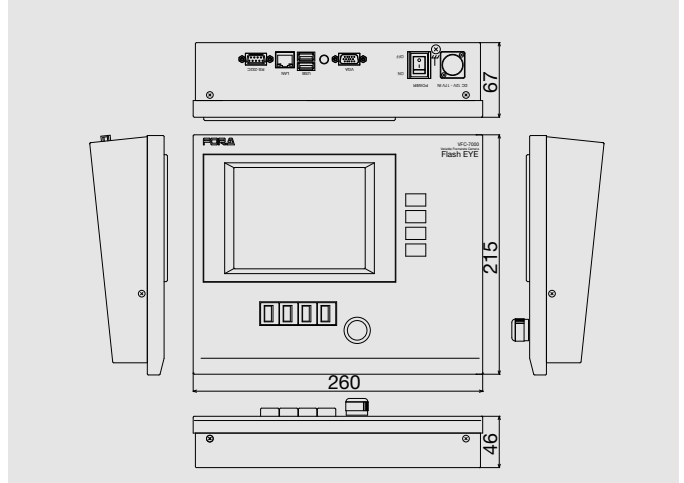
Operation Unit

Interfaces	100BASE-TX (For connecting to the camera)
Temperature / Humidity	0°C to 40°C / 30% to 85% (no condensation)
Power / Consumption	12 V DC to 17 V DC / 14 W
Dimensions / Weight	260 (W) x 67 (H) x 215 (D) mm / 2 kg
Consumables	Button battery (for backup): Replace every 4 years (at normal temperature)

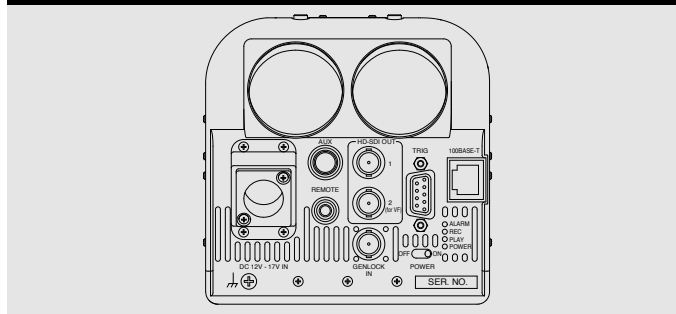
Frame Rate/Recording Time

Frame Rate (frames/sec)	Recording Time (Sec)		Frame Rate (frames/sec)	Recording Time (Sec)	
	Standard	Expansion		Standard	Expansion
24	287.3	861.9	200	34.4	103.4
25	275.8	827.5	240	28.7	86.1
30	229.8	689.5	250	27.5	82.7
50	137.9	413.7	300	22.9	68.9
60	114.9	344.7	360	19.1	57.4
100	68.9	206.8	400	17.2	51.7
120	57.4	172.3	500	13.7	41.3
150	45.9	137.9	600	11.4	34.4
180	38.3	114.9	700	9.8	29.5

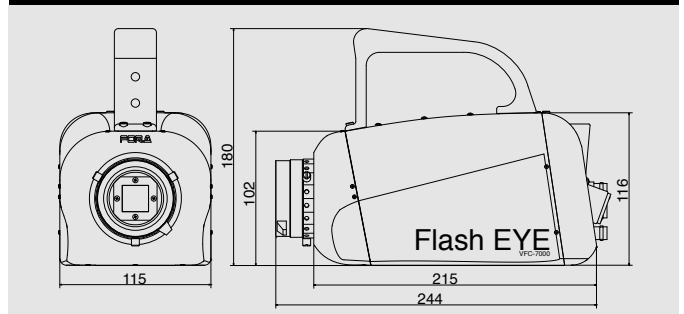
Operation Unit External Dimensions



Camera Unit Rear View



Camera Unit External Dimensions



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