Ultra Compact progressive scan

KP-F3 / KP-F3W

KP-F3 is progressive scan Black-and-White Camera with full pixel independent readout 1/3-inch CCD.
KP-F3W is 1/60s progressive scan camera.
KP-FC3/FC3W is side lens type.

Main Specifications

- Imaging device : 1/3-inch Inter-line CCD
- No. of effective pixels : EIA : 647(H)X485(V)
- Pixel pitch(square lattice) : 7.4X7.4 µm
- Vertical scanning frequency :
  (progressive scan) KP-F3 : 29.97 Hz
  KP-F3W : 59.94 Hz
  (interrace scan) KP-F3 : 59.94 Hz
  KPF3W : 119.88 Hz
- Horizontal scanning frequency : KP-F3 : 15.734 kHz
  KP-F3W : 31.468 kHz
- Sync system : Int./Ext. (Automatically switched)
- Sensitivity switching : FIX, AGC or MANUAL
- Gamma : correction 1 or correction
- External trigger : Field/frame on demand
- Lens mount : C-mount
- Power supply : 12 VDC
- Dimensions : 29(W)X29(H)X62(D) mm
- Mass : 100 g approx.

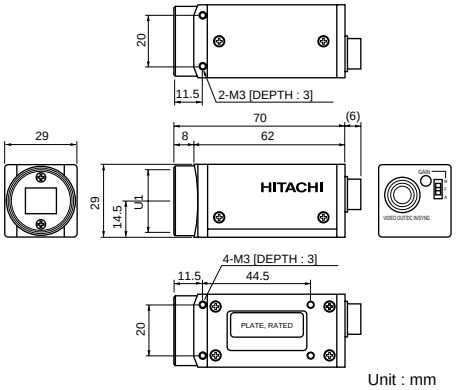
Standard composition

(1)Camera body (with infrared blocking filter)
(2)Operation manual

Optional accessories

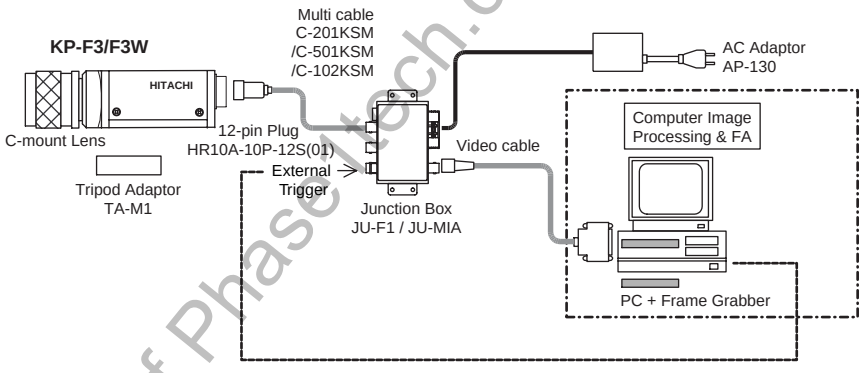
(1)Tripod adaptor……TA-F3
(2)12-pin plug……HR10A-10P-12S(01)
(3)Junction box……JU-F1 or JU-M1A
(4)Dummy glass (AR-coated)……ARC1214
(5)Camera cable (molded type)
2m C-201KSM
5m C-501KSM
10m C-102KSM
(6)AC adaptor……AP-130

Dimensions

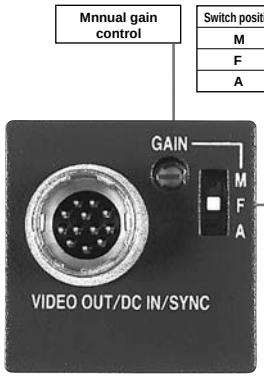


Unit : mm

KP-F3/F3W System



Rear Panel / Switches and Input/Output Connector



Switch position	Gain mode
M	Manual
F	Fixed
A	Automation control

Pn Arangement of VIDEO OUT/DC IN/SYNC Connector(12-pin)

PIN NO.	Internal sync	External sync		
		HD/VD	Frame/Field·On·Demand	
			ONE triger	Fixed shutter
1	GND	GND	GND	GND
2	+12 V	+12 V	+12 V	+12 V
3	VIDEO GND	VIDEO GND	VIDEO GND	VIDEO GND
4	VIDEO out put (signal)	VIDEO out put (signal)	VIDEO out put (signal)	VIDEO out put (signal)
5	-	HD GND	-	-
6	-	HD input (signal)	-	-
7	-	VD input (signal)	TRIG input (signal)	TRIG input (signal)
8	GND	GND	GND	GND
9	NC	NC	NC	NC
10	GND	GND	GND	GND
11	+12 V	+12 V	+12 V	+12 V
12	-	VD GND	VD GND	VD GND

Note: Supply 12VDC in the range between 11 and 13 V.

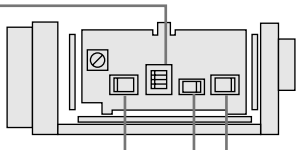
Internal Switch Setting

Electronic shutter speed setting

Speed	F3 / F3W	OFF	1/100 / 1/200	1/250 / 1/500	1/500 / 1/1000
Switch position					

Speed	F3 / F3W	1/1000 / 1/2000	1/2000 / 1/4000	1/4000 / 1/8000	1/8000 / 1/16000
Switch position					

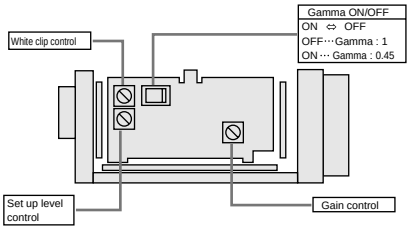
The faster the shutter speed, the more the effect. However, sensitivity is loward. In the case, it is neededto adjust the lens iris or to increase the illumination. When the shutter is used, the flicker of the objects can be enhanced. In this case, use flickerless illumination like DC lamp.



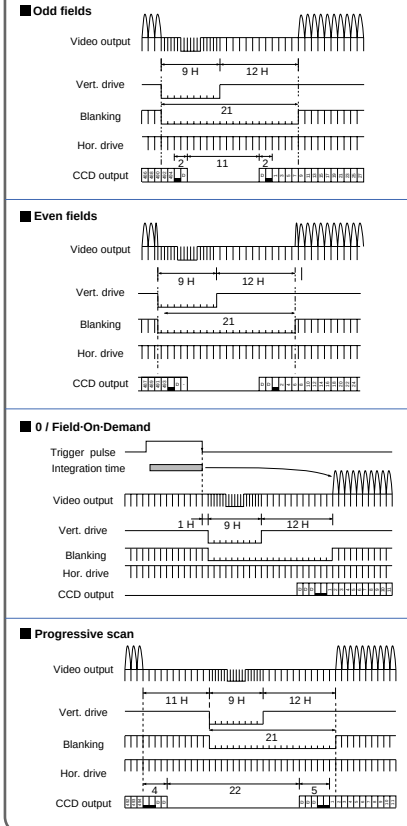
Switch position	Trigger mode
ON	Frame / Field·On·Demand
OFF	Nomal output

Switch position	HD/VD input/output
I	Ext. HD/VD input
O	Int. HD/VD output

Switch position	Trigger mode
I	Interlace mode
N	Non-interlace mode



Timing Chart



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