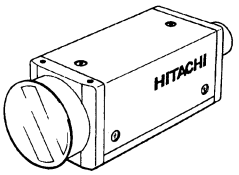
Progressive scan
Black and white camera
KP-F3-S2

A. Outline



◆Progressive scan monochrome camera with 1/3-inch CCD.

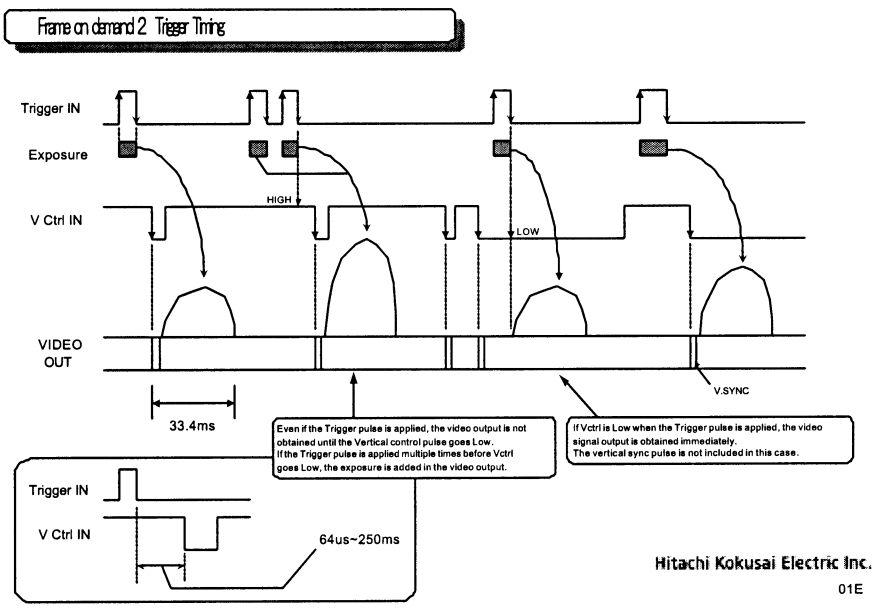
◆Equivalent trigger functions as Sony XC-55 (E-DONPISHAII).

B. Selling points

◆Basic performance same as KP-F3

◆Equivalent trigger functions as Sony XC-55 (E-DONPISHAII). (Frame on demand 2)

C. Configuration

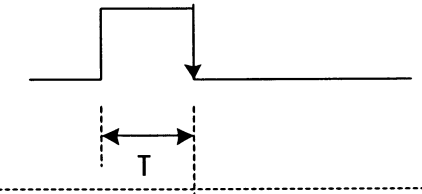
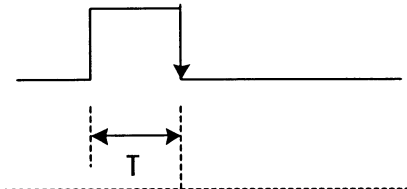
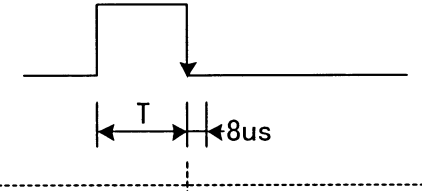
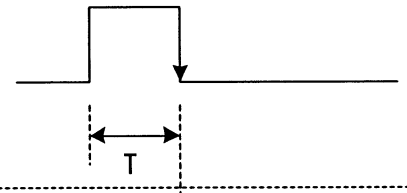
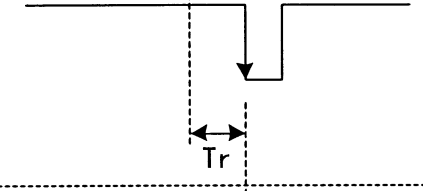
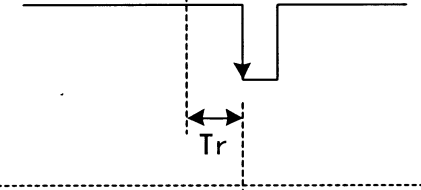
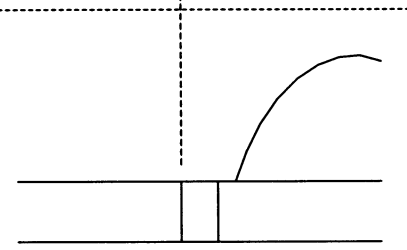
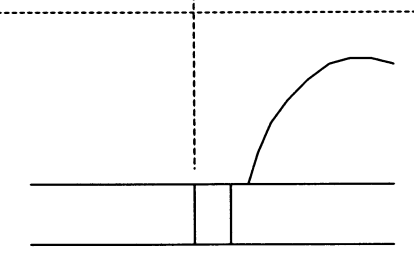
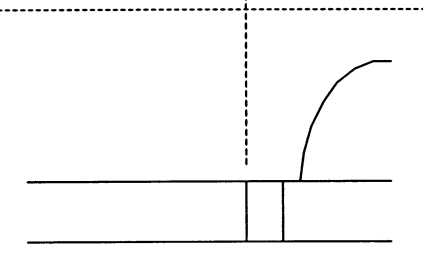
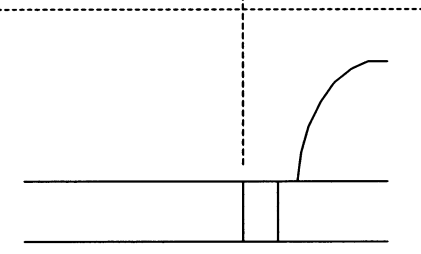


D. Main specifications and functions

	specifications
Imaging device	1/3-inch progressive scan CCD
Effective pixels	647 (H) × 485 (V)
CCD drive frequency	12.272 MHz
Vertical scanning frequency	59.94/29.97 Hz
Synchronization	Internal/external, automatically
Minimum scene illumination	0.2lux F1.4
Signal to noise ratio	56 dB
Electronic shutter	Standard to 1/8000 second
Trigger function	Frame on demand 2
Lens fixture	C mount
Power supply voltage and current consumption	12 VDC 120mA
Operating ambient temperature	-10 to +50 ℃
Vibration quality assurance test	98m/s^2
Dimensions	29 (W) × 29 (H) × 62 (D) mm
Mass	100 grams

E. Suggested markets

Industrial automation, intelligent transportation systems (ITS), incorporation into products, Wire bonders, image sensors

	HITACHI KP-F3	HITACHI KP-F3-S1(TYPE I)	HITACHI KP-F3 TYPE II	SONY XC-55
TRIGGER MODE	FRAME ON DEMAND	FRAME ON DEMAND (for TYPE I)	FRAME ON DEMAND (for TYPE II)	E-DONPISHA II
PIN 9 XC-55:TRIG IN KP-F3:NC	NC	TRIGGER IN 	TRIGGER IN 	TRIGGER IN 
PIN 7 XC-55:VD IN KP-F3:VD/TRIG IN	TRIGGER IN 	NC	VD IN 	VD IN 
VIDEO OUT				
Note	* Original * Trigger input: same VD input pin	* Trigger input: same input pin of XC-55 * Video out timing control (by VD): NG * Connection: Matrox MeteorII * DCF: same XC-55	TYPE I and VD input * Video out timing control (by VD): OK * Connection: Matrox MeteorII * DCF: same XC-55	Integration time: T+8us Tr: 140us or more