

HITACHI

Ultra Compact B/W Cameras

KP-F30/KP-M20/KP-M30

Progressive Scan B/W Camera

KP-F30(VGA)



FPGA enables trigger function, video output and other capabilities to meet a longlist of demands.

- 1/3-inch CCD sensor
- Frame rate 60f/s
- Frame on Demand
- Partial Scan
- HD/VD input/output

Ultra Compact B/W Cameras

KP-M20/KP-M30

(1/2-inch CCD)

(1/3-inch CCD)

Ultra compact black-and-white CCD camera featuring high sensitivity, high resolution and high performance.

- 2:1 interlace
- EIA/CCIR
- HD/VD input/output
- Electronic shutter



KP-F30

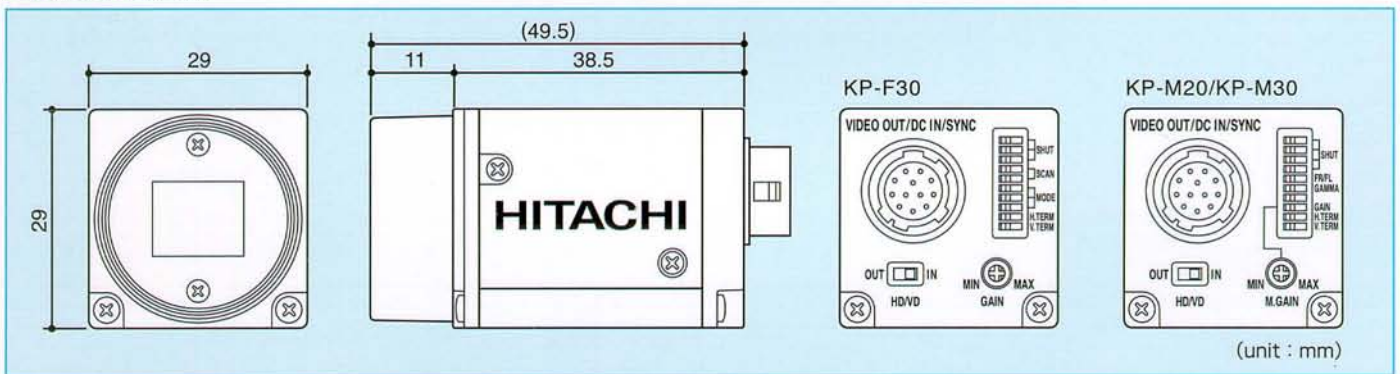
■Main Specifications

Item	KP-F30
Imaging device	1/3-inch Progressive scan inter-line CCD
Total pixels	692×504
Effective pixels	659×494
Hor scanning frequency	31.468 kHz
Vert scanning frequency	59.94 Hz
Pixel clock	24.545 MHz
Video output	VS 1.0 Vp-p / 75 Ω
Gamma correction	1.0
Electronic shutter speed	1/200 s, 1/500 s, 1/1000 s, 1/2000 s, 1/4000 s, 1/8000 s, 1/16000 s
Lens mount	C mount
Power consumption	1.5 W approx
Power supply	12 VDC±1 V
Dimensions	29(W)×29(H)×38.5(D) mm
Mass	55 g approx

■Pin Arrangement (12pin)

PIN No.	Internal sync	External sync	FD
1	GND	GND	GND
2	12V	12V	12V
3	VIDEO GND	VIDEO GND	VIDEO GND
4	VIDEO OUT	VIDEO OUT	VIDEO OUT
5	HD GND	HD GND	HD GND
6	HD OUT	HD IN	HD IN
7	VD OUT	VD IN	VD/TRIG A IN
8	GND	GND	GND
9	N.C	N.C	N.C
10	WEN OUT	WEN OUT	WEN OUT
11	(TRIG B IN)	(TRIG B IN)	TRIG B IN
12	VD GND	VD GND	VD GND

■Dimensions



KP-M20/KP-M30

■Main Specifications

Item	KP-M20N/P	KP-M30N/P
Imaging device	1/2-inch inter-line CCD	1/3-inch inter-line CCD
Total pixels	811×508(EIA), 795×596(CCIR)	
Effective pixels	768×494(EIA), 752×582(CCIR)	
Hor scanning frequency	15.734 kHz(EIA), 15.625kHz(CCIR)	
Vert scanning frequency	59.94 Hz(EIA), 50Hz(CCIR)	
Pixel clock	14.318 MHz(EIA), 14.187MHz(CCIR)	
Video output	VS 1.0 Vp-p / 75 Ω	
Gamma correction	ON(0.45)/OFF(1.0)	
Electronic shutter speed	1/50 s(CCIR), 1/60 s(EIA), 1/100 s(EIA), 1/120 s(CCIR), 1/250 s, 1/500 s, 1/1000 s, 1/2000 s, 1/4000 s, 1/10000 s	
Lens mount	C mount	
Power consumption	1.5 W approx	
Power supply	12 VDC±1 V	
Dimensions	29(W)×29(H)×38.5(D) mm	
Mass	55 g approx	

N:EIA P:CCIR

■Pin Arrangement (12pin)

PIN No.	Internal sync	External sync
1	GND	GND
2	12V	12V
3	VIDEO GND	VIDEO GND
4	VIDEO OUT	VIDEO OUT
5	HD GND	HD GND
6	HD OUT	HD IN
7	VD OUT	VD IN
8	GND	GND
9	N.C	N.C
10	N.C	N.C
11	N.C	N.C
12	VD GND	VD GND

CAUTION : To ensure safe operation, please read the instruction manual before using this product.

●These Specifications are subject to change without notice.

Hitachi Kokusai Electric Inc.

Head Office
14-20, Higashi-Nakano 3-choume, Nakano-ku, Tokyo 164-8511, Japan
Phone : +81 (0) 3-3368-6111, Fax : +81 (0) 3-3365-9119 www.h-kokusai.com

Hitachi Denshi (Europa) GmbH
Weskircher Straße 88, Jügesheim D-63110 Rodgau, Germany
Phone : +49 (0) 6106-69920, Fax : +49 (0) 6106-16906
www.hitachi-denshi.de
General email address : webmaster@hitachi-denshi.de

Hitachi Denshi (Europa)
Brookfield House, Selby Road, Garforth, Leeds LS25 1NB United Kingdom
Phone : +44 (0) 113-287-4400, Fax : +44 (0) 113-287-4260
www.hitachi-denshi-uk.com
General email address : sales@hitachi-denshi-uk.com

These products are manufactured at a factory which has received quality control system certification in accordance with the ISO international standards.



CERTIFICATE No.
JMI-0062
- ISO 9001 / BS 5750Pt1
EN 29001 / JIS Z 9901