

Accelerated Progressive Scan Monochrome CCD camera

KP-F30 Specifications ver0.2

- (1) Imaging device Progressive scan Interline type CCD
 - Total number of pixels 692(H) × 504(V)
 - Pixel size 7.4(H) × 7.4(V) μm
 - Effective number of pixels 659(H) × 494(V)
- (2) Sensing area 4.88mm(H) × 3.66mm(V) (1/3 types)
- (3) Effective lines 648(H) × 494(V)
- (4) Scanning system Progressive scan (60 frames)
- (5) Lens mount C mount
- (6) Flange focal 17.526mm
- (7) Horizontal scan frequency 31.468kHz
- (8) Vertical scan frequency 59.94Hz
- (9) Sync system Internal/external (automatic selection)
- (10) External synchronization I/O External switch selection. Set to Input at the factory.
 - Input: HD/VD 4~6Vp-p Negative
 - Frequency deviation: ± 1%
 - Impedance: 75Ω or high impedance (switch selection)
 - Output: HD/VD 4~5Vp-p Negative
 - Impedance: 100Ω
- (11) Video output 1.0Vp-p 75Ω unbalanced
 - Video component: 0.7Vp-p
 - Sync component: 0.3Vp-p Negative
- (12) Resolution 500 TV lines (H)/485 TV lines (V)
- (13) Sensitivity 400Lx, F5.6 3200K
- (14) Min. illumination 0.2Lx, F1.4, AGC, γ ON, and no IR cut filter
- (15) S/N 50dB (Min Gain)
- (16) Electronic shutter 1/50000s, 1/10000s, 1/4000s, 1/2000s, 1/1000s, 1/500s, 1/250s
 - OFF: Normal exposure (1/60s)
 - External switch can be set. The Factory setting is OFF.
- (17) Gamma γ=1
- (18) Gain Manual Gain setting.
- (19) Frame on demand function
 - Switch with the MODE SELECT switch.
 - ONE trigger and fixed shutter mode
 - The partial scan mode can be set.
 - External switch setting.
 - Frame output of Factory setting (normality).
- (20) Power requirement DC12V ± 1V

(21) Power consumption 1.8W approx.

(22) Ambient temperature and humidity

Operating :-10-50°CRH90% or less

Storage :-20-60°CRH70% or less

Caution : For continued stable operation, the camera should be used under 40°C or less when it is used continuously for extended period of time.

(23) Anti-vibration 98m/s² (10 to 60Hz,amplitude:0.98mm
constant 60 to 200Hz amplitude : variable)
(10 to 150Hz sweep: 1min, XYZ , 30min.)

(24) Resistance to shock 686 m/s² (Drop test, once each top, bottom, left and right)

(25) Dimensions 29(W) × 29(H) × 39.5(D)mm

(26) Mass 55g approx.

Composition

(1) Camera (W/IR cut filter)

(2) Operation manual

Optional accessories

(1) Tripod adaptor Original for KP-M20/M30/F30 TA-F30 (tentative name)

(2) 12 pin plug HR10A-10P-12S (01)

(3) AC adaptor AP-130

(4) Junction box Original for KP-M20/M30/F30

(5) Dummy glass ARC1214 (AR coat)

(6) Camera cable

	Molding type	Assy. type	Shielded type
2m	C-201-KSM	C-201KS	C-201KSS
5m	C-501KSM	C-501KS	C-501KSS
10m	C-102KSM	C-102KS	C-102KSS

- Do order production of the Assy. and the Shielded type.