

Monochrome CCD camera

KP-M20/KP-M30 Specifications ver0.2

- (1) Imaging device Interline CCD
- Total number of pixels EIA: 811(H)×508(V)
CCIR: 795(H) ×596(V)
- Pixel size KP-M20 EIA: 8.4(H)×9.8(V) μm
CCIR: 8.6(H) ×8.3(V) μm
KP-M30 EIA: 6.35(H) ×7.4(V) μm
CCIR: 6.5(H) ×6.25(V) μm
- Effective number of pixels ··· EIA: 768(H)×494(V)
CCIR: 752(H) ×582(V)
- (2) Sensing area KP-M20 EIA: 6.45(H)×4.84mm(1/2 type)
CCIR: 6.47(H)×4.83mm(1/2 type)
KP-M30 EIA: 4.88(H)×3.66mm(1/3 type)
CCIR: 4.89(H)×3.64mm(1/3 type)
- (3) Scanning system EIA/CCIR (normal operation)
- (4) Lens mount C mount
- (5) Flange focal 17.526mm
- (6) Horizontal scan frequency · EIA: 15.734KHz CCIR: 15.625KHz
- (7) Vertical scan frequency ···· EIA: 59.94Hz CCIR: 50Hz
- (8) Sync system Internal/external (automatic selection)
- (9) Internal synchronization scanning system
2:1 interlaced
The horizontal number: 525 lines (CCIR: 625lines)
 $fV=2fH/525$ (CCIR: 625 lines)
- (10) External synchronization I/O
External switch selection. Set to Input at the factory.
Input: HD/VD 4~6Vp-p Negative Frequency deviation: $\pm 1\%$
Impedance: 75 Ω 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 EIA: 570 TV lines (H) /485TV lines (V)
CCIR: 560 TV lines (H) /575TV lines (V)
- (13) Sensitivity 200Lx F4 3200K Min Gain
- (14) Min. illumination 0.3Lx, F1.4 AGC, Gamma ON

- (15) S/N 60dB Min Gain
- (16) Electronic shutter 1/10000s, 1/4000s, 1/2000s, 1/1000s,
1/500s, 1/250s, 1/125s, 1/120s(CCIR),
1/100s(EIA), 1/60s(EIA), 1/50s(CCIR)
OFF: Normal exposure
External switch can be set. The Factory setting is OFF.
- (17) Integration mode Field or frame External switch can be set.
The Factory setting is Frame.
- (18) Gamma Gamma=1.0 or correction External switch can be set.
The Factory setting is Gamma=1.0.
- (19) Gain selection AGC or Manual Gain setting External switch setting
The Factory setting is Manual Gain.
- (20) Power requirement DC12V±1V
- (21) Power consumption 1.5W approx.
- (22) Ambient temperature and humidity
Operating: -10~50°C RH90% or less
Storage : -20~60°C RH70% 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 About 55g

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.