



22X Optical Zoom Block Camera

- 600TVL Horizontal Resolution
- Digital WDR (Wide Dynamic Range)
- 22X Auto Focus Optical Zoom Lens
F1.6(W), F3.7 (T), f= 3.9 ~ 85.8mm
- Min. Illumination of 0.2 Lux
30IRE @ Wide End, AGC: High, DSS: Off
- Intensified DSS accumulation field up to x256
- Digital Noise Reduction (DNR)
- Numerous Presets up to 512 presets
- Multilingual OSD Menu

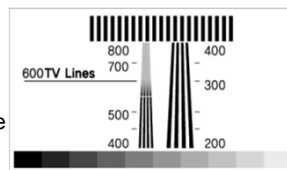
Key Features

- 1/4" Sony Super HAD CCD II
- 600TVL Horizontal Resolution
- 3D Digital Noise Reduction
- Digital WDR (Wide Dynamic Range)
- 22X Auto Focus Optical Zoom Lens
F1.6(W), F3.7 (T), f=3.9~85.8mm
- Min. Illumination of 0.2 Lux
30 IRE @ Wide end, AGC high, DSS Off
- Intensified DSS accumulation field up to x256
- Spherical Masking up to 8 areas
- Mirror, Freeze, Flip, HSBLC, BLC
- Preset: 512 area
- Convenient OSD (On Screen Display) Control
- DC12 Voltage



Super High Resolution of 600TV Lines

With Sony Super HAD CCD and DSP, KPC-ZAK220 provides high horizontal resolution up to 600TV lines for color. User can expect extremely clear and excellent image quality.



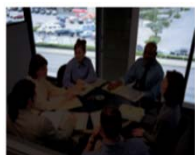
Conventional Camera



KPC-ZAK220

Digital Wide Dynamic Range (D-WDR)

D-WDR enhances the image quality between two contrasting light sources. It compensates for the dark and bright images without any saturation to obtain the best possible picture.



NORMAL



BLC



WDR ON

* Specifications & Features are subject to change without prior notice.

22x Auto Focus Optical Zoom

Built-in powerful 22x optical zoom lens additional to 10x digital zoom is creating up to 220x powerful zoomed image. User can zoom in onto the side of a distant object area for surveillance applications.



1x zoom



22x zoom

Part No.: KPC-ZAK220NH

3D Digital Noise Reduction (3D DNR)

The amount of low luminance noise is remarkably reduced and signal-to-noise ratio (S/N) as well as horizontal resolution dramatically improved, it results in a clear and sharp image display even in the dark lighting condition.



CONVENTIONAL CAMERA



KPC-ZAK220

Motion Detection

When user is simultaneously monitoring at the same time, KPC-ZAK220 detects a motion of any objects on the screen and transmits alert signal into the external alarm to have user's attention on the screen.



Convenient OSD Menu

All camera operations can be easily controlled by OSD (On-Screen Display) menu on the monitor screen that the user can adjust this camera for optimum setup with great convenience.
Multi-Languages: English, Korean

DSS Low Light Technology

Digital Slow Shutter (DSS) technology enhances the low light performance of the camera, producing outstanding images in low light conditions. DSS slows the shutter speed and increases the camera's light sensitivity.



Conventional Camera



KPC-ZAK220

Back Light Compensation zone & level

According to various user environment, user can set the back light compensation zone and adjust levels to optimize desired picture.



BLC Off



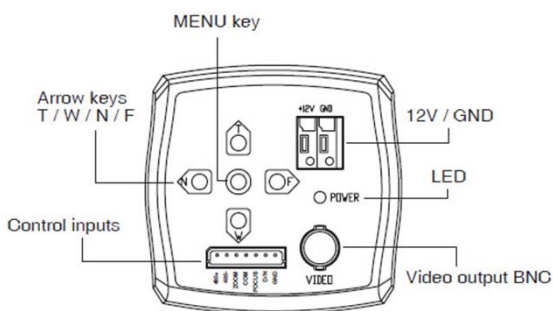
BLC On

Privacy Image Masking

For the privacy protection in the open area observation, some particular area can be masked for privacy purposes. User can easily setup the masking sizes and positions of the desired zones.
8 privacy zone available.

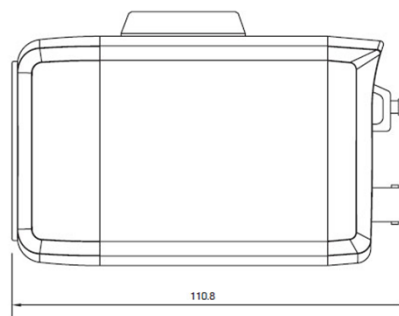
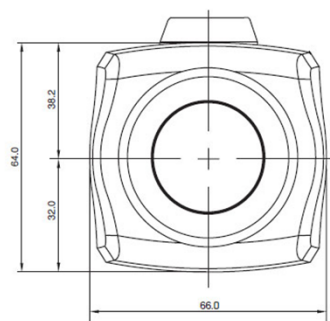


General Feature Diagram



Arrow keys T / W	Buttons for zoom control, in OSD menu row selection up/down
Arrow keys N / F	Buttons for focus control, in OSD menu change of parameters
MENU key	Open/close OSD setup menu
Video output BNC	Video output BNC, composite 1 Vs-s / 75 Ohm
LED	LED on indicates power on.
Control inputs	485+ / 485-: Remote control input RS485 ZOOM/COM/FOCUS: input for zoom/focus control with +/- 5VDC D/N / GND: contact input for external day/night - switching
12V / GND	Power input terminal for 12 VDC stabilized (+/- 10%)

(Unit: mm)



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Part No.: KPC-ZAK220NH

Technical Specification

Model		KPC-ZAK220NH
Signal System		NTSC
Image Sensor		1/4" Sony Super HAD CCD II
Scanning Frequency (H) X (V)		15.734 KHz x 59.94 Hz
Total Pixels / Effective Pixels		768(H) x 494(V)
Synchronization		Internal / External
Horizontal Resolution		600 TV Lines
Lens (Digital Zoom Ratio)		22x Optical Zoom Lens, 10 x Digital Zoom
Focus		Auto / Zoom Trig / Interval / Manual
S/N Ratio		> 50dB (AGC Off)
Min. Illumination		0.2 Lux (Condition: F1.6(W), AGC High, DSS off, 30 IRE)
Min. Object Distance		1cm (wide) up to 1m (tele)
Electronic Shutter	Mode	Auto / Manual / FLK
	Auto	1/60 ~ 1/100,000
	Manual	1/15, 1/30, 1/60, ~ 1/100k
Video Output Level		1Vp-p Composite (75Ω), Unbalanced
ODS Function	D-WDR	On / Off
	DSS	Auto, Manual, On (x2 ~ x256) / Off
	Day & Night	Auto / Color / BW / External
	3DNR	On / Off
	Flip	On / Off
	Mirror	On / Off
	Freeze	On / Off
	D-WDR / BLC	OFF / D-WDR / BLC / HSBLC
	AGC	Auto (Off / Low / Middle / High) / Manual
	White Balance	ATW / AWB / PWB / MWB / IWB / OWB
	Motion Detection	4 Area
Operating Temperature		-10 °C ~ 50 °C (14 °F ~ 122 °F)
Storage Temperature		-20 °C ~ 60 °C (-4 °F ~ 140 °F)
Humidity		Less than 80%RH
Power		DC 12V +/- 10%, MAX. 210mA
Dimensions		66 x 64 x 111 mm
Weight		400g

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