



> Wide Dynamic Range Box Camera

Item	Specifications
CCD Type	Sony 1/3" SuperHAD II CCD
Scanning System	NTSC (2:1 Interlace)
Synchronization - Internal	H/V 15.734/59.94Hz
Line Lock	H/V 15.750/60Hz
Min.Illumination	0.12Lux(15IRE), 0.2Lux(30IRE), 0.4Lux(50IRE) - F1.2
Sense-Up Off	0.0002Lux(15IRE), 0.0005Lux(30IRE), 0.0008Lux(50IRE) F1.2
Sense-Up On	
S/N Ratio	>52dB (AGC Off)
Video Output	1.0Vp-p / 75Ω Video, 0.714Vp-p
Gamma Correction	0.45
Horizontal Resolution	600 TVL (Max.) / 700 TVL (B/W)
O.S.D	Lens, E-Shutter, Backlight, WDR, AGC, Sens-Up, White Balance, Day & Night, Motion, Mirror, Sharpness, Gamma, Freeze, Nega, DNR, D-Zoom, LSC, Eclipse, DIS, Privacy, Communication, Sync, Title, Language, DPC, Filter
Electrical Shutter	1/60 - 1/100,000 sec
Privacy Masking	8 Windows (Polygonal, 8 Colors)
Day & Night	Color / BW / Auto / EXT
Motion Detection	On / Off
Digital Zoom	X1.0 - x10
Sens-Up (Low Shutter)	Off -x521
SYNC	Auto / Internal / Digital Line Lock
White Balance	ATW / AWC / Manual / Push
WDR	On / Off (WDR Level, Weight)
3D DNR	On / Off (Off, Low, Mid, High)
DIS	On / Off
Eclipse	On / Off
AGC	Low / Middle / High / Off
Lens	C / CS Mount
Operation Environment	Temperature: -20°C to +60°C Humidity: 30% - 80%
Storage Environment	Temperature: -30°C to +60°C Humidity: 20% - 90%
Power (Max.)	DC12V 200mA, AC24V 80mA
Dimensions (mm)	61 (W) X 55 (H) x 106 (L)
Weight	Abt. 460g

> Analog Camera AN9

- Wide Dynamic Range
- 3D Digital Noise Reduction
- 600TVL Ultra High Resolution
- D-Zoom (x1 ~ x10)
- Zero Defect
- Digital Image Stabilization
- Sens-Up (x512, DSS)
- Polygonal Privacy Masking (Polygonal, 8 colors)
- Eclipse



AN9



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WDR(Wide Dynamic Range)

WDXV7 DSP delivers a powerful Wide Dynamic Range to the camera to provide the best pictures in interior and exterior conditions under extreme high contrasts between lightness and darkness and automatically compensates a necessary light level to get detailed information in the dark part without saturation from the bright part. Our WDXV7 technology enables the WDR function to be very efficient in normal CCD by using Dual Shutter(Long& Short shutter) algorithm and the specialized AE (Auto Exposure) and intelligent image processing.



WDR OFF



WDR ON

3D DNR(Digital Noise Reduction)

WDXV7 DSP technology achieves a 3D-DNR (3 Dimensional-Digital Noise Reduction) function very excellently by using upgraded 3D filtering and enables to keep this function automatically while operating the camera to provide the clear and superior images in very low light luminance. Normally video noise is increased at low light condition while the gain level of amplifier expands. WDXV7 DSP compensates the dynamic noise by using the information of formal frame in no activity part.



Conventional DNR Camera



WDXV7 Camera

ZERO DEFECT

WDXV7 DSP with Perfect Adaptive Defect Correction delivers more clear pictures to be captured in very low light illuminance by using two methods of algorithm for the defect pixel compensation and performs the zero defect thoroughly.



Conventional DNR Camera



WDXV7 Camera

CCD Defects

Sens-Up(x512, DSS)

WDXV7 DSP permits high quality pictures by supporting a long time of the exposure more than 1/60sec.(NTSC) and enables to recognize the shape and color of suspended object under the no light condition in case of the exposure of more than 8sec.(x512).



DSS OFF



DSS ON

ECLIPSE

WDXV7 DSP technology enables to recognize a visible car license plate clearly by blocking unnecessary lights.



Eclipse OFF



Eclipse ON

600 TVL ULTRA HIGH RESOLUTION

The horizontal resolution of 600 TV Lines at Color mode and 700 TV Lines at Black/White mode by using a high density CCD in our WDXV7 DSP. WDXV7 technology performs vivid and obvious image output with ultra high horizontal resolution by using a own De-mosaic interpolation algorithm and also the specialized and built-in sharpness filter.



Conventional Camera



WDXV7 Camera

D-ZOOM(x1~x10)

WDXV7 DSP technology enables a various magnification and helps to get the enlarging video image very conveniently. WDXV7 DSP has a remote control technology for a camera without physical control by a built-in fan & tilt function on the chip.



Digital Zoom OFF



Digital Zoom ON

DIS(Digital Image Stabilization)

WDXV7 DSP delivers the digital image stabilization and the picture accuracy for anti-shaking compensation against the exterior influence such as wind and vibration after installing camera and permits more stable images in video output.

WDXV7 DSP enables to get the moving direction information of the objects per field as the chip has a built-in image tracking module.



DIS OFF



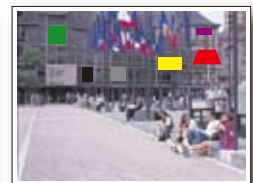
DIS ON

POLYGONAL PRIVACY MASKING(Polygonal, 8colors)

WDXV7 DSP ensures to protect the privacy for the private and specific areas onto the video signal output by polygonal masking function very conveniently and exactly. WDXV7 allows the size and position of masking area to be controlled very easily and conveniently and 8 areas masking setting which is user programmable in color, brightness and mosaic.



Privacy OFF

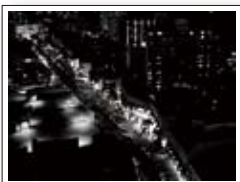


Privacy ON

HIGH SENSITIVITY TRUE DAY&NIGHT

WDXV7 DSP loaded with Day & Night function delivers the high quality of the color image and performs while converting the color into monochrome automatically as under less than the specific level of the sensitivity.

WDXV7 DSP is more superior in the Sense-up function with x512 and 3D-DNR very effectively to ensure a clear image in the darkness.



Conventional Camera



WDXV7 Camera