

# WAT-221S2 1/2" Multi-function & High Sensitivity Camera

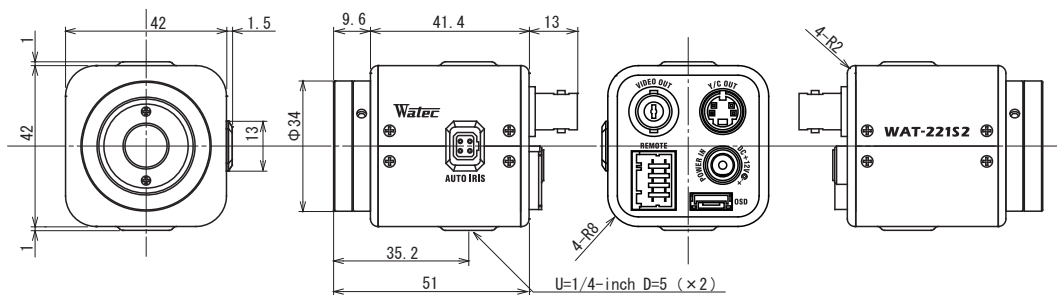
Advanced setting for general surveillance, embedded system and research study



## Key features

- 1/2-inch CCD sensor with high sensitivity
- Achieves minimum illumination 0.006 lx F1.2 (AGC=ON, shutter=OFF, NR=ON and gamma=0.45)
- 3DNR, wide dynamic range, HSBLC (Highlight Suppression Back Light Compensation)
- White blemish correction, slow-shutter, privacy masking and RS-485 (Pelco-D) compatible
- OSD (On screen display) – Easy installation through a controller provided in kit

## Dimensions



## Specifications

Video standard		NTSC	PAL
Pick-up element		1/2 inch interline transfer CCD image sensor	
Number of total pixels		811(H) × 508(V)	795(H) × 596(V)
Number of effective pixels		768(H) × 494(V)	752(H) × 582(V)
Unit cell size		8.4 μm(H) × 9.8 μm(V)	8.6 μm(H) × 8.3 μm(V)
Imaging system		Ye, Cy, Mg, and G complementary color mosaic filters on chip	
Synchronizing system		Internal	
Scanning system		2:1 interlace	
Video output	BNC	Composite: 1.0 V(p-p) 75 Ω, Unbalanced	
	Y/C	Y: 1.0V(p-p), C: 0.3V(p-p) 75 Ω	
Resolution (H)		More than 550TVL (Center)	
Minimum illumination		0.006 lx F1.2 (AGC=ON, Shutter=OFF, NR=ON, γ=0.45)	
		0.0004 lx F1.2 (AGC=ON, Shutter=x16, NR=ON, γ=0.45)	
S/N		More than 55dB (AGC=-3dB, γ=1.0)	
Function settings / Serial port		OSD (On Screen Display) / RS-485 (Pelco-D), Remote controller	
AE mode	Fixed	x2, x4, x8, x16, x32, x64, x128, x256 (field)	
		1/60, 1/100 sec.	1/50, 1/120 sec.
	1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec.		
	EI	1/60 - 1/100000 sec.	1/50 - 1/100000 sec.
x16 - 1/100000 sec.			
White balance		ATW (Color rolling suppression), PWB, MWB, PRESET (4 types)	
AGC		HI: -3 - 44dB / LO: -3 - 32dB	
MGC		-3 - 44dB (1dB step)	
Gamma characteristics		9 steps setting (1.0/0.8/0.7/0.6/0.55/0.5/0.45/0.4/0.35)	
Noise reduction		3DNR ON (Level selectable) / OFF	
Wide dynamic range		WDR (Digital Wide Dynamic Range) ON (Level selectable) / OFF	
Motion detection		ON (Area/Sensitivity/Alarm) / OFF	
Lens iris		Video / DC (EIAJ, Auto-select)	
Back light compensation		ON / OFF	
HSBLC (Highlight BLC)		ON / OFF	
White blemish correction		Max 64 dots	
Defog		ON (Level selectable) / OFF	
Digital zoom		x2 - 256 (ZOOM/PAN/TILT)	
Privacy mask		4 masks	
Mirror image		V-FLIP / H-FRIP / HV-FLIP	
Power supply		DC+12V±10%	
Power consumption		1.32W (110mA)	
Operating temperature		-10 - +50°C	
Storage temperature		-30 - +70°C	
Operating / Storage humidity		95% RH or less (Without condensation)	
Lens mount		CS mount (Back focus adjustable)	
Weight		Approx. 150g	
Accessories		WPDC12 (DC plug), AIC-G (Iris plug), Hex. wrench, I/O cable, RC-01 (Remote controller)	

