

WAT-933

1/2.8" Compact High Sensitivity Network B&W Camera

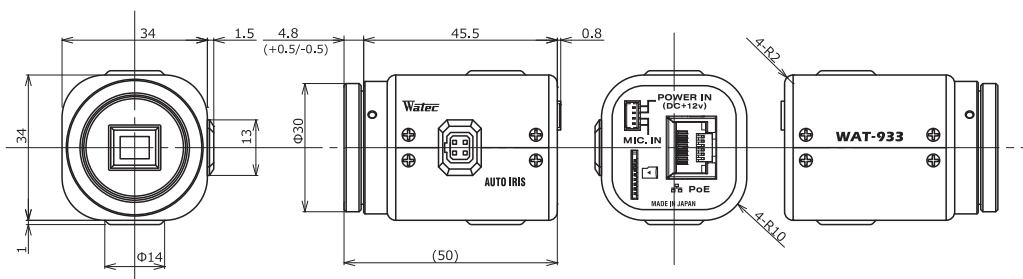
As small as WAT-902 series



Key features

- Supporting microSD enables stand-alone recording without the network connection
- Video output quick start-up in 6 sec.
- Power-saving PoE : 3.12W/65mA DC+12V : 2.16W/180mA

Dimensions



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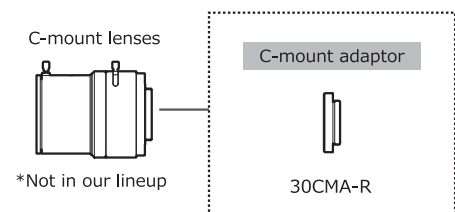
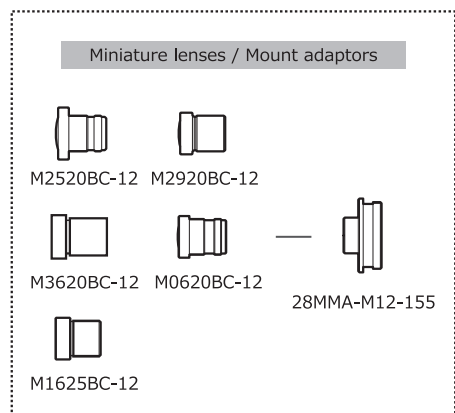
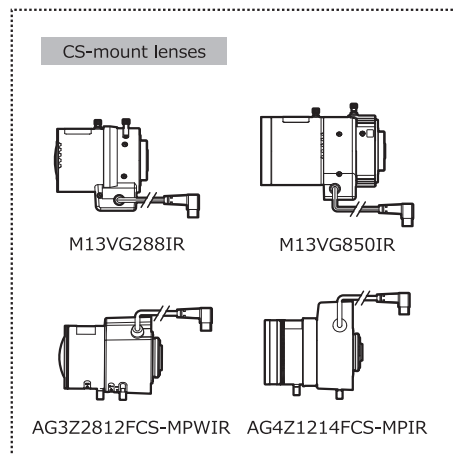
Specifications

Pick-up element		1/2.8 inch BSI CMOS image sensor	
Number of effective pixels		1945(H) × 1097(V)	
Unit cell size		2.9µm(H) × 2.9µm(V)	
Imaging system		—	
Synchronizing system		Internal	
Scanning system		Progressive	
Output size		1920×1080, 1280×720, 800×600, 704×480, 704×400, 640×480, 640×360, 320×240	
Max. frame rate		60 fps *1	
Video compression		H.264, MJPEG	
Minimum illumination		0.0001 lx F1.4 (AGC HIGH=72dB, Shutter=OFF)	
S/N		—	
Function settings		Browser *2	
AE mode	Fixed	1/30, 1/60, 1/120, 1/250, 1/500, 1/1000,	1/25, 1/50, 1/100, 1/200, 1/400, 1/800,
		1/2000, 1/4000, 1/8000, 1/15000,	1/1600, 1/3200, 1/6400, 1/12800,
		1/30000 (sec.) *3	1/25600 (sec.) *4
	EI	1/30 - 1/30000 (sec.) *3	1/25 - 1/25600 (sec.) *4
		×32 - 1/30000 (sec.) *3 *5	×32 - 1/25600 (sec.) *4 *5
White balance		—	
AGC	ON	0 - 72dB *6	
	OFF	0dB	
MGC		—	
Day/Night		—	
Gamma Characteristics		γ≈0.45, 0.55, 0.65, 0.75	
Noise reduction		3DNR OFF/ON (Level adjustable)	
Wide dynamic range		WDR OFF/ON (Level adjustable)	
Lens iris		DC	
Back light compensation		BLC, HSBLC	
White blemish correction		ON	
Sharpness		Level adjustable	
Defog		OFF/ON (Level adjustable)	
Digital zoom		—	
Privacy mask		16 masks	
Mirror image		OFF, V-FLIP, H-FLIP, HV-FLIP	
Freeze		—	
Motion detection		OFF/ON 4 areas arbitrarily configurable	
Neg.image		—	
ONVIF		profile S	
Supported protocols		TCP/IP, UDP/IP, RTP(RTCP), RTSP, SNTP, HTTP, FTP, DHCP, DNS	
Interface		RJ45 (10BASE-T, 100BASE-TX), 4P Connector (MIC. IN, POWER IN), Auto iris, microSD *7	
Power supply		PoE +48V (IEEE802.3af), DC+12 - 36V +12V is recommended for DC input	
Power consumption		3.12W/65mA (PoE +48V), 2.16W/180mA (DC +12V)	
Operating / Storage temperature		0 - +50℃ / -30 - +70℃	
Operating / Storage humidity		95% RH or less (Without condensation)	
Lens mount		CS mount (Back focus adjustable)	
Weight		Approx. 83g	
Accessories		4P cable, Hex. wrench, Clamp filter	
Acquired Standards		FCC (FCC Rules and Regulations Title 47 CFR Part 15),	
		CE (EN IEC 61000-6-3:2021, EN50130-4:2011 + A1:2014)	

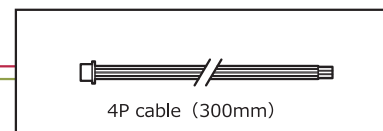
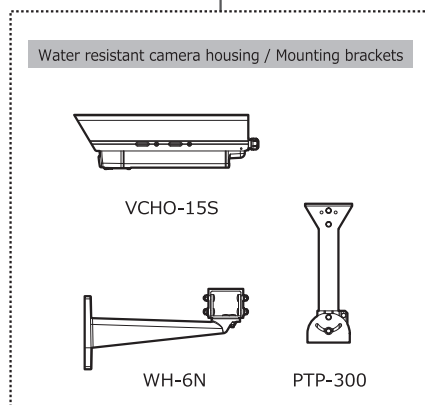
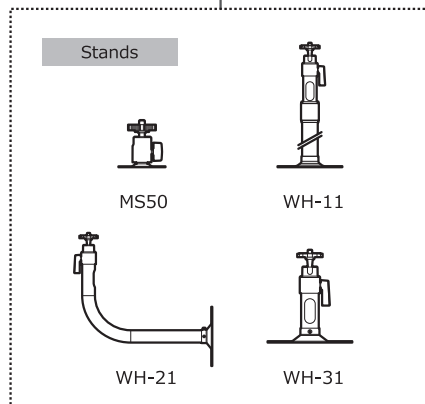
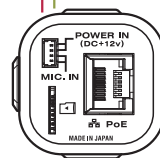
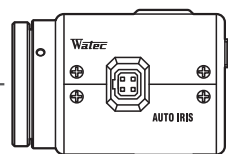
*1: When set to 720P or lower *2: Google Chrome recommended *3: Frequency=60Hz *4: Frequency=50Hz *5: When using the Slow Shutter
 *6: AGC MAX is variable from 0 - 72dB *7: microSD (Recommended operating conditions: SDHC/SDXC standard, MLC type or high endurance model, Speed Class CLASS 10 or more, Capacity of 256GB or less) *ONVIF is a trademark of Onvif, Inc. *microSD is a trademark of SD Association. SD, SDHC and SDXC (and logos) are trademarks of SD-3C, LLC. *XProtect is a registered trademark of Milestone Systems A/S.

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Accessories Options



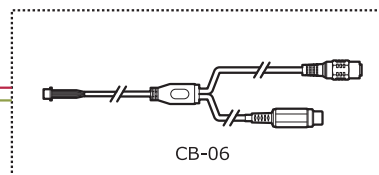
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POWER IN (DC+12-36V)

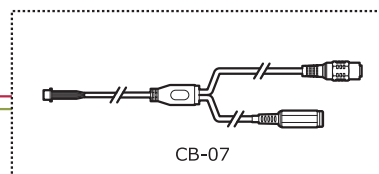
MIC. IN

Cable with connectors

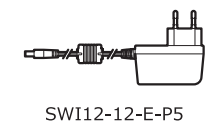
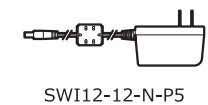


LINE IN

POWER IN (DC+12V)

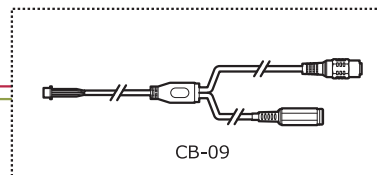


Power supply adaptor



MIC. IN

*Use the MIC. which is a plug-in power type.



MIC. IN

*Use the MIC. which is CTIA / AHJ compatible.

LAN cable
(Shielded cable recommended)
*Not in our lineup

*Use the PoE hub or NVR supporting IEEE802.3af for the PoE power supply

Clamp filter

