WAT-933

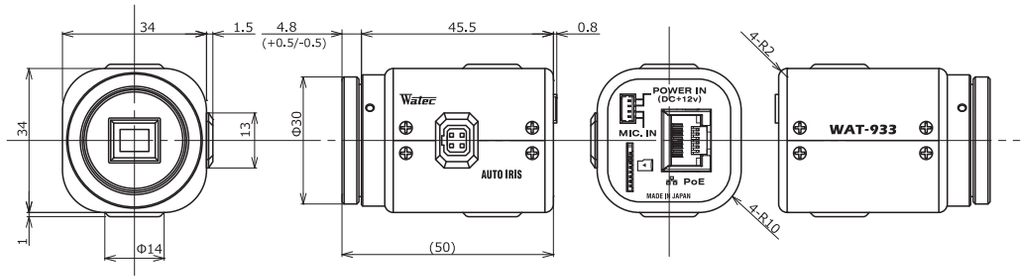
1/2.8” Compact High Sensitivity Network B&W Camera

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 : 2.40W/50mA　DC+12V : 1.80W/150mA

Dimensions



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	
Video compression		H.264, MJPEG	
Minimum illumination		0.0001 lx F1.4 (AGC HIGH=72dB, Shutter=OFF)	
S/N		—	
Function settings		Browser	
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.) *1	1/25600 (sec.) *2
	EI	1/30 - 1/30000 (sec.) *1	1/25 - 1/25600 (sec.) *2
		×32 - 1/30000 (sec.) *1 *3	×32 - 1/25600 (sec.) *2 *3
White balance		ATW, PWB, MWB, PRESET (3000K, 5000K, 8000K)	
AGC	ON	0 - 72dB	
	OFF	0dB	
MGC		—	
Day/Night		—	
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 (Recommended: SDHC / SDXC standard, MLC type, Speed Class CLASS 10 or more, Capacity of 256GB or less)	
Power supply		PoE +48V (IEEE802.3af), DC+12 - 36V *+12V is recommended for DC input	
Power consumption		2.40W/50mA (PoE +48V), 1.80W/150mA (DC+12V)	
Operating temperature		0 - +50℃	
Storage temperature		-30 - +70℃	
Operating / Storage humidity		95% RH or less (Without condensation)	
Lens mount		CS mount (Back focus adjustable)	
Weight		Approx. 80g	
Accessories		4P cable, Hex. wrench, Clamp filter	

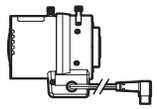
*1: Frequency=60Hz　*2: Frequency=50Hz　*3: When using the Slow Shutter

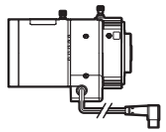
*ONVIF is a trademark of Onvif, Inc. *microSD is a trademark of SD Association. SD, SDHC and SDXC (and logos) are trademarks of SD-3C, LLC.
*XProtect is a registered trademark of Milestone Systems A/S.

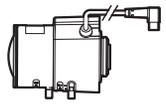
Accessories Options

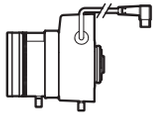
CS-mount lenses

*see www.variovision.tv for more lens options


M13VG288IR


M13VG850IR


AG3Z2812FCS-MPWIR


AG4Z1214FCS-MPIR

*503401

Miniature lenses / Mount adaptors

M2520BC-12 *401304

M2920BC-12 *401305

M3620BC-12 *401306

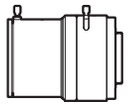
M0620BC-12 *401302

28MMA-M12-155 *401556

M0816BC-12 *401303

M1625BC-12 *503136

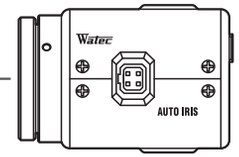
C-mount lenses

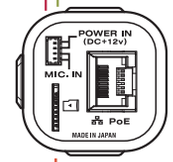

*see www.variovision.tv for options

C-mount adaptor

30CMA-R *402806

WAT-933





microSD

*not included

Stands

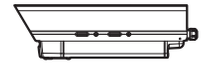
MS50 *402599

WH-11 *303041

WH-21 *303042

WH-31 *303040

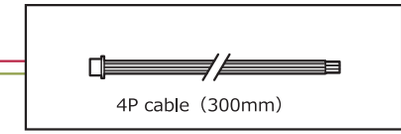
Water resistant camera housing / Mounting brackets


VCHO-15S

WH-6N

PTP-300

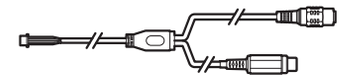
*see www.variovision.tv for more options


4P cable (300mm)

POWER IN (DC+12-36V)

MIC. IN

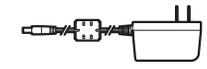
Cable with connectors

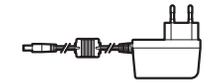

CB-06 *303043

LINE IN

POWER IN (DC+12V)

Power supply adaptor


SWI12-12-N-P5


SWI12-12-E-P5 *303046

CB-07 *303044

CB-09 *303047

MIC. IN

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

MIC. IN

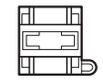
*Use the MIC. which is CTIA / AHJ compatible.

LAN cable
(Shielded cable recommended)

*see www.variovision.tv for more options

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

Clamp filter



Network hub

NVR

VMS / Browser / Others

*see www.variovision.tv for more options

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