

DATASHEET

TBL6010 LQ

AISI 316L stainless steel Megapixel IP camera Full HD for high temperature

- Made in AISI 316L stainless steel indicated for environments with high temperatures: up to +300°C
- IP66 weatherproof rating.
- Double chamber for liquid/air cooling.
- Dynamic range for the reliable acquisition of details in situations of overexposure.
- Max. 2Megapixel (1920 x 1080) resolution
- 4.44 ~ 142.6mm Optical 32x zoom
- Max. 60fps@all resolutions (H.265 / H.264)
- H.265, H.264, MJPEG Codec, Multiple streaming
- Day & Night (ICR), WDR (120dB), Defog
- Intelligent Dynamic Noise Reduction.
- Easy fastening and positioning.



IP 66
STANDARD

FULL
HD
1080p



maintenance free

Stainless steel Full HD camera liquid cooled for high temperature environments

TBL6010 LQ is an IP Megapixel camera that has been specifically developed for high temperature applications like foundries, blast furnaces and high temperature areas in general. The camera is equipped with a front flange with air barrier in order to reduce the heat in the front side and prevent the formation of dust.

The camera is available with 1080p resolution and provides up to 60 frames per second; for a good performance it is necessary to check the temperature of the area and the delivery temperature of the cooling liquid or fluid, then position the housing at the correct distance from the heat source

The AGF150 filter group, that can be installed as optional equipment, allows a correct use of the air barrier: by means of a pressure gauge, it is possible to filter and regulate the air pressure.

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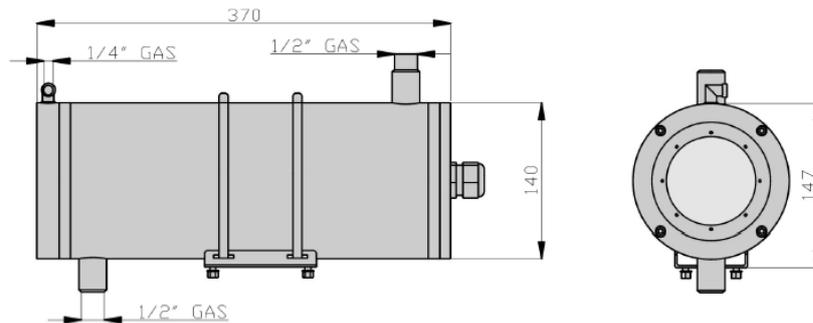
Video	
Imaging Device	1/2.8" 2MP CMOS
Effective Pixels	1944(H)x1212(V)
Min. Illumination	Color: 0.05 lux(F1.6, 1/30sec) B/W: 0.005 lux(F1.6, 1/30sec)
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation
Lens	
Focal Length (Zoom Ratio)	4.44~142.6mm(32x) motorized varifocal
Max. Aperture Ratio	F1.6(Wide) ~ F4.4(Tele)
Angular Field of View	H: 61.8°(Wide)~2.19°(Tele), V: 36.2°(Wide)~1.24°(Tele)
Min. Object Distance	1.5m(4.92ft)
Focus Control	Auto, One shot AF
Lens Type	DC auto iris
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, polygonal zones - Color: Grey/Green/Red/Blue/Black/White - Mosaic
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror
Analytics	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Digital auto tracking, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Analytics, Network disconnect, Alarm input
Alarm Events	File upload via FTP and E-Mail Notification via E-Mail SD/SDHC/SDXC or NAS recording at Event Triggers Alarm output Handover
Audio In	Selectable(Mic in/Line in), Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm

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Audio Out	Line out, Max. output level: 1Vrms
Network	
Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264 : Max. 60fps/50fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Smart Codec	Manual(5ea area) WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles)
Audio Compression	G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps at 16KHz
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTP
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication(EAP-TLS, EAP-LEAP)
Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
Memory	1024MB RAM, 256MB Flash
Environmental	
Weatherproof rating	IP66
Operating Temperature / Humidity	-10°C ~ +300°C(-14°F ~ +572°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH
Electrical	
Input Voltage	PoE(IEEE802.3af, Class3), 12Vdc
Power Consumption	PoE : Max 6.8W, Typical 4.8W 12Vdc : Max 5.2W, Typical 3.5W
Mechanical	
Material	AISI 316L stainless steel electropolished
Product dimensions / weight	Ø147 x 370mm (length), 9Kg

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TECHNICAL DRAWINGS



the values are in millimeters

ACCESSORIES

VHF150/B	high temperature glass (up to +600°C)
AL150/A	power supply 230/12Vdc 1,3A
AL150/B	power supply 230/24Vac 500mA
AGF150	air filtering group
SP/C	AISI316L pole adaptor
SA/C	AISI316L corner adaptor
ST160	wall bracket and joint