



# WMK-H202

**2M Pixel x20 Zoom  
Hybrid(Network+HD-SDI)  
IR PTZ Dome Camera**

## Outdoor-ready for high-speed Full HDTV surveillance

For the highest video quality and performance, WMK-H202 PTZ Dome camera is to be the choice. Designed for the most demanding applications, the outdoor-ready PTZ dome provides Full HD coverage of large areas, great details when zooming in, and high-speed pan/tilt performance with minimized network latency.



# HD-SDI

- ◎ 2 Mega-pixel Full HD 1080p through Network and HD-SDI
- ◎ Outdoor-ready and resistant to Arctic temperature of -40°C
- ◎ 20x optical zoom and ease to install from PTZ mechanism docking cradle
- ◎ Minimized network latency with 200ms/1920x1080 resolution
- ◎ Bandwidth adaptive for network streaming efficiency
- ◎ Using http common port for all network services

WMK-H202 offers a rich viewing experience. The Full HD 1080p complies with the SMPTE 292M standard regarding a 1920x1080 pixel resolution, full frame rate, Full HDTV color fidelity and a 16:9 format. It supports multiple H.264 and Motion JPEG video streams. H.264 greatly optimizes bandwidth and storage without compromising image quality. WMK-H202 provides 20x optical and 32x digital zoom with autofocus, fast and precise pan/tilt response at 380°/sec. It confirms to the ONVIF specification guaranteeing interoperability between network video products regardless of manufacturer. It enables live/playback viewing, full camera control and configuration capabilities over the network, at industry-lowest network latency with 200ms/2 megapixel resolution.



## Providing brighter and clearer image

WMK-H202's toughened glass viewing window is optically correct and distortion free providing brighter, clearer images, even at full telephoto zoom ratio. WMK-H202 and its IR motorized zoom lens offers a rich viewing experience even in total darkness, though smoke, light fog and in the most adverse weather conditions which make the camera in hard-to-focusing.

WMK-H202 is well protected with internal aluminum die-casting for shock-resistance, and the external ABS housing for corrosion-resistant for longer life, which is IP66 certified.

WMK-H202's camera housing is factory-sealed and never has to be opened. The power supply and all terminals for video, telemetry data, alarm and network interface for the camera are reliably protected in the weatherproof and tamperproof housing. And an external cable with an included pre-fitted 1m HD-SDI coaxial cable, telemetry data and alarm cable, and power cable, simply links to the installation base unit and the base board. This advanced PTZ mechanism docking structure is extremely installation-friendly designed as well.

WMK-H202's precise pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns and slew-to-alarm functionality and delivers variable pan/tilt speeds from a speed of only 0.1° per second up to 90° per second. The camera is capable of pan speeds of 250° per second between presets.

x20 optical zoom with 2mega-pixel

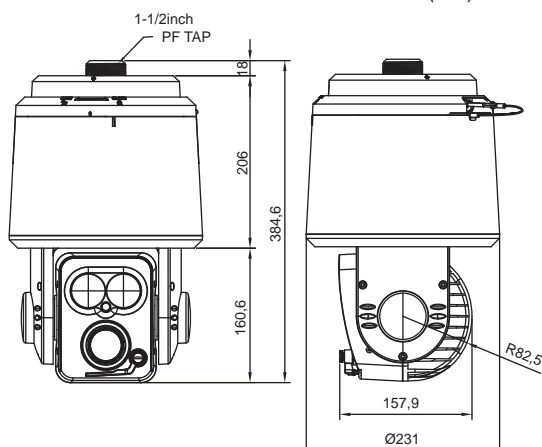
Adapting x20 Tamron motorized zoom lens and taking advantage of enhanced auto-focus algorithm, it performs the widest range of image view and fastest auto-focus response for 255preset positions.

Lowest latency of 200ms/2Mpix

Comparing the most popular network devices in worldwide, the latency is around 15% less and over 25% less than the latency from legacy low-cost megapixel network cameras.

## DIMENSIONS

(mm)



## Key features

- 2.2 Megapixel progressive scan CMOS
  - Smooth operation and captures fluid motion at 30 frames per second with 1920x1080 pixel resolution
- Transmit full HD video on Network and HD-SDI
- Industry-highest ratio of x20 optical zoom (4.7~94mm F/1.6)
  - Improved Auto Focus algorithm to improve focusing accuracy even in the most challenging low-light, low-contrast environments
- True D&N ICR mechanism
  - 0.4lux(F1.6) minimum illumination in color mode and 0.04lux in monochrome mode
- Weather-proof IP66 outdoor housing
  - Easily track targets with 360degree endless rotation and high-speed 250°/sec
- Resistant to arctic temperature of -40℃
  - Prevent from blooming, smear, focus shift
- Ease of installation and servicing from the PTZ mechanism docking cradle
  - H.264 and Motion JPEG compression
- Using Http common port for entire TCP/IP Protocol Suite (RTP/RTSP, SNMP, UDP,SMTP)
  - ONVIF compliant API
- Industry leading latency of 200ms/2Mpix
  - Bandwidth adaptive video streaming
- Integrated web server for camera parameter setting
  - Dynamic IP support

## [ System Configuration ]



### HD-SDI



coax cable



## SPECIFICATIONS

CAMERA	Image Sensor	1/3" 2.2M Pixel Panasonic CMOS image sensor
	Active pixels	1920(H)x1080(V) pixels
	Minimum illumination	0.4lux(F1.6) in color mode, 0.04lux in b/w mode
	Lens	4.3~129mm, 30x zoom, F1.6 and motorized lens
	Angle of view	Wide 58.90°x 45.30°, Tele 2.11°x 1.61°
	Video Out	HD-SDI through coax cable
	Image compression	H.264 (Mpeg-4 Part 10/AVC), Motion JPEG
	Streaming	Simultaneous dual streaming of H.264/MPEG or H.264
	Resolution Scaling	Down to 1280x720, 640x352, 320x176, 160x96
	Motion Detection	Selectable sensitivity and threshold
	Electronic shutter control	Automatic, Manual(1/25 to 1/60,000 sec)
	Iris control	Automatic, Manual
	Day/Night control	Auto / Day / Night / Ext
	Flicker control	Off / On
	White balance	Auto / . One Push / Manual / Indoor / Outdoor
	Privacy Zone	Programmable up to 16zones
	Presets	Up to 255 points
	Tour	8 programmable tours
	Pattern	4 patters, 60 seconds each
	Audio compression	8bit PCM (G.711 u-law), Sampling rates 8KHz, Mono
	Audio channels	1ch audio-in & 1ch audio-out
	Alarm In/Out	8 alarm-in, 2 dry contact relay-out rating 2A@30VAC
NETWORK	Network interface	10/100-Base T Ethernet (auto-sensing)
	Cabling & Connector type	CAT5 & RJ-45
	API	ONVIF/PSIA Compliant
	Security	Channel based for live-cast, PTZ, alarm output and audio
	Protocol	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, NTP, SMTP client, uPNP
	SDK	Open HTTP API (ActiveX for live cast with audio & PTZ)
	Service	Image upload / Notification service
MECHANICAL	Dimension	237(Ø) x 310mm(H),
	Weight	Approx. 4Kg(8.7lbs)
	Dome bubble	148(Ø) polycarbonate clear dome cover
	Body	Aluminum / ABS, IP66
	Housing	Pendant mount (Wall/Ceiling)
	Wiper	Wiper ON/OFF
	Pan	0.1°~90°/sec , Preset Speed 250°/sec, Endless rotation
	Tilt	0.1°~90°/sec , Preset Speed 250°/sec, Digital flip
	Heater & Cooling Fan	30W / 10000RPM Cooling Fan
ELECTRICAL	Power Source	Max.AC24V 3.8A (Fan/Heater ON, IR ON, Motor Moving)
	Operating Temperature	-40℃ to +50℃ with external power
	Humidity	20-80% relative humidity (non-condensing)