## **AMK-H302**

HD-SDI



# 2MP x30 Zoom Hybrid(Network+HD-SDI) Twin Motorized Zoom IR PTZ Camera

### Providing brighter and clearer image

AMK-H302's toughened glass viewing window is optically correct and distortion free providing brighter, clearer images, even at full telephoto zoom ratio.

AMK-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.

AMK-H302 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.

AMK-H302's camera housing is factory-sealed and never has to be opened.

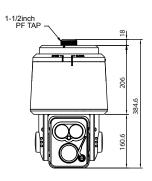
The power supply and all terminals for video, telemetry data, alarm and network interface for the camera are reliably protected in the weatherproof and tamper-proof housing. And an external cable with an included pre-fitted 1m HD-SDI coaxial cable, telemetry data and alarm cable, and power cable, simply links to the installation base unit and the base board.

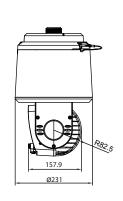
This advanced PTZ mechanism docking structure is extremely installation-friendly designed as well.

AMK-H302'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 120°/80° per second.

The camera is capable of pan speeds of 250° per second between presets.

#### **DIMENSIONS**





unit: mm

#### **FEATURES**

- 1/3" Panasonic New Generation CMOS
- Smooth operation and captures fluid motion at 30/25 frames per second with 1920x1080 pixel resolution
- Transmit full HD video on Network and HD-SDI
- Industry-highest ratio of x30 optical zoom (4.3~129mm 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 Minimum illumination : Color : 0.5 lux , BW : 0.1 lux
- Color DSS: 0.002 lux, BW DSS: 0.001 lux

  Weather-proof IP66 outdoor housing

Easily track targets with 360degree endless rotation and high-speed 250°/sec

- Resistant to arctic temperature of -50  $^{\circ}$ C to 70  $^{\circ}$ C Prevent from blooming, smear, focus shift
- Easy 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

#### **SPECIFICATIONS**

Image		AMK-H302
Picture elements Lens  X30 zoom = 4.3 mm (WIDE) to 129 mm (TELE), F1.6 to F5.0  Digital zoom  Angle of view (H)  Approx. 65.1° degrees (WIDE end), approx. 2.34° degrees (TELE end)  Min. working distance  Sync system  Internal  Min. illumination  Color: 0.5 lux, BW: 0.1 lux / Color DSS: 0.002 lux, BW DSS: 0.001 lux  Recommended illumination  SyN ratio  SyN ratio  So dB (Weight ON)  Back light compensation  Electronic shutter speed  White balance  White balance  AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor  Gain  Auto/Manual (−3 dB to +28 dB, 16 steps)  Wide dynamic range  ON/OFF Aperture control  Video Output  IP, HD-SDI, CVBS  NETWORK  Network interface  Cabling & Connector type  CAT5 & RJ-45  API  ONVIFPSIA Compliant  Security  Channel based for live-cast, PTZ, alarm output and audio  Protocol  HTTP, RTP/RTSP, TCP/IP, FTP, Telnett, 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  231(Ø) x 385mm(H)  Weight  Approximately 6.3Kg  Body  IP66, External ABS / Internal Aluminum  IR LED  IR motorized Zoom  Pan Preset Speed  250°/sec, ± 0.1° Accuracy  Tilt  -8°(352°) to 188° movement, 0.8°~80°/sec	CAMERA	
Lens x30 zoom f= 4.3 mm (WIDE) to 129 mm (TELE), F1.6 to F5.0 Digital zoom x32 (x9600 with Digital zoom)  Angle of view (H) Approx. 65.1° degrees (WIDE end), approx. 2.34° degrees (TELE end)  Min. working distance 100 mm (WIDE end), 800 mm (TELE end)  Sync system Internal  Min. illumination Color: 0.5.0 lux, BW: 0.1 lux / Color DSS: 0.002 lux, BW: 0.5.0001 lux  Recommended illumination 50 dB (Weight ON)  Back light compensation ON/OFF  Electronic shutter speed 1/30(25) ~ 1/60,000 sec  White balance AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor  Gain Auto/Manual (~3 dB to +28 dB, 16 steps)  Wide dynamic range ON/OFF/AUTO  Noise reduction ON/OFF  Aperture control 16 steps  Video Output IP, HD-SDI, CVBS  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 PAP, OTP, PAP, CHAP, NTP, SMTP client, uPNP  SDK Open HTTP API (ActiveX for live cast with audio &PTZ)  Service Image upload / Notification service  MECHANICAL  Dimension 231(Ø) x 385mm(H)  Weight Approximately 6.3Kg  Body IP66, External ABS / Internal Aluminum  IR LED IR motorized Zoom  Pan Preset Speed 250°/sec, ± 0.1° Accuracy  Tilt -8°(352°) to 188° movement, 0.8°~80°/sec		1/3" Panasonic New Generation CMOS
Digital zoom Angle of view (H) Approx. 65.1° degrees (WIDE end), approx. 2.34° degrees (TELE end)  Min. working distance Sync system Internal Min. illumination Color: 0.5 lux, BW: 0.1 lux / Color DSS: 0.002 lux, BW DSS: 0.001 lux Recommended illumination SyN ratio Back light compensation Electronic shutter speed White balance White balance AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Auto/Manual (-3 dB to +28 dB, 16 steps) Wide dynamic range No/OFF (level 5 to 1 / OFF, 6 steps) Video Output NETWORK Network interface Cabling & Connector type 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 231(Ø) x 385mm(H) Weight Approximately 6.3Kg Body IP66, External ABS / Internal Aluminum IR LED IR motorized Zoom Pan Pan Preset Speed 250°/sec, ± 0.1° Accuracy Tilt -8°(352°) to 188° movement, 0.8°~80°/sec	Picture elements	
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Angle of view (H)  Approx. 65.1° degrees (WIDE end), approx. 2.34° degrees (TELE end)  Min. working distance  Sync system  Min. illumination  Color: 0.5 lux, BW: 0.1 lux / Color DSS: 0.002 lux,  BW DSS: 0.001 lux  Recommended illumination  S/N ratio  Back light compensation  ON/OFF  White balance  AUTO, ATW, Indoor, Outdoor, One Push WB,  Manual WB, Outdoor Auto, Sodium Vapor  Gain  Auto/Manual (-3 dB to +28 dB, 16 steps)  Wide dynamic range  ON/OFF (level 5 to 1 / OFF, 6 steps)  Video Output  IP, HD-SDI, CVBS  NETWORK  Network interface  Cabling & Connector type  API  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  231(Ø) x 385mm(H)  Weight  Approximately 6.3Kg Body  IP 66, External ABS / Internal Aluminum  IR LED  IR motorized Zoom  Pan Pan Preset Speed  250°/sec, ± 0.1° Accuracy Tilt  -8°(352°) to 188° movement, 0.8°~80°/sec	Digital zoom	x32 (x9600 with Digital zoom)
Min. working distance  Sync system  Min. illumination  Min. illumination  Recommended illumination  Syn ratio  Back light compensation Electronic shutter speed  White balance  Mide dynamic range  No/OFF  Aperture control  Video Output  Network interface  Cabling & Connector type  API  Security  Protocol  Pan  Pan  Pan  Pan  Pan  Pan  Pan  Pa	Angle of view (H)	
Sync system   Internal		2.34° degrees (TELE end)
Sync system   Internal	Min. working distance	100 mm (WIDE end), 800 mm(TELE end)
Recommended illumination  S/N ratio  So dB (Weight ON)  Back light compensation  Electronic shutter speed  White balance  AUTO, ATW, Indoor, Outdoor, One Push WB,  Manual WB, Outdoor Auto, Sodium Vapor  Gain  Auto/Manual (-3 dB to +28 dB, 16 steps)  Wide dynamic range  Noise reduction  Color Enhancement  Aperture control  Video Output  IP, HD-SDI, CVBS  NETWORK  Network interface  Cabling & Connector type  API  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)  Image upload / Notification service  MECHANICAL  Dimension  231(Ø) x 385mm(H)  Weight  Approximately 6.3Kg  Body  IP 66, External ABS / Internal Aluminum  IR LED  IR motorized Zoom  Pan  Pan Preset Speed  250°/Sec, ± 0.1° Accuracy  Tilt  -8°(352°) to 188° movement, 0.8°~80°/sec	Sync system	
Recommended illumination  S/N ratio  S/N ratio  Back light compensation Electronic shutter speed  White balance  AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Auto/Manual (-3 dB to +28 dB, 16 steps)  Wide dynamic range  Noise reduction Color Enhancement Aperture control Video Output NETWORK NETWORK Network interface Cabling & Connector type CAT5 & RJ-45 API 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) Image upload / Notification service  MECHANICAL Dimension  231(Ø) x 385mm(H) Weight Approximately 6.3Kg Body IP66, External ABS / Internal Aluminum IR LED IR motorized Zoom Pan Pan Preset Speed 250°/Sec, ± 0.1° Accuracy Tilt -8°(352°) to 188° movement, 0.8°~80°/sec	Min. illumination	Color: 0.5 lux, BW: 0.1 lux/Color DSS: 0.002 lux,
S/N ratio 50 dB (Weight ON)  Back light compensation ON/OFF  Electronic shutter speed 1/30(25) ~ 1/60,000 sec  White balance AUTO, ATW, Indoor, Outdoor, One Push WB,		
S/N ratio Back light compensation Electronic shutter speed White balance AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Auto/Manual (-3 dB to +28 dB, 16 steps) Wide dynamic range Noise reduction Color Enhancement Aperture control Aperture control Video Output IP, HD-SDI, CVBS NETWORK Network interface Cabling & Connector type API 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 Open HTTP API (ActiveX for live cast with audio &PTZ) Service Image upload / Notification service MECHANICAL Dimension 231(Ø) x 385mm(H) Weight Approximately 6.3Kg Body IP66, External ABS / Internal Aluminum IR LED IR motorized Zoom Pan Par Preset Speed 250°/Sec, ± 0.1° Accuracy Tilt -8°(352°) to 188° movement, 0.8°~80°/sec	Recommended illumination	100 to 100,000 lux
Back light compensation Electronic shutter speed White balance White balance AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Auto/Manual (-3 dB to +28 dB, 16 steps) Wide dynamic range Noise reduction Color Enhancement Aperture control Video Output IP, HD-SDI, CVBS NETWORK Network interface Cabling & Connector type 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 Open HTTP API (ActiveX for live cast with audio &PTZ) Service MECHANICAL Dimension 231(Ø) x 385mm(H) Weight Approximately 6.3Kg Body IP66, External ABS / Internal Aluminum IR LED IR motorized Zoom Pan Par Preset Speed 250°/Sec, ± 0.1° Accuracy Tilt -8°(352°) to 188° movement, 0.8°~80°/sec	S/N ratio	
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Manual WB, Outdoor Auto, Sodium Vapor  Auto/Manual (-3 dB to +28 dB, 16 steps)  Wide dynamic range ON/OFF/AUTO Noise reduction ON/OFF (level 5 to 1 / OFF, 6 steps)  Color Enhancement Aperture control 16 steps Video Output IP, HD-SDI, CVBS NETWORK Network interface Cabling & Connector type 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 231(Ø) x 385mm(H) Weight Approximately 6.3Kg Body IP66, External ABS / Internal Aluminum IR LED IR motorized Zoom Pan Pan Preset Speed 250°/Sec, ± 0.1° Accuracy Tilt -8°(352°) to 188° movement, 0.8°~80°/sec	White balance	AUTO, ATW, Indoor, Outdoor, One Push WB,
Gain Auto/Manual (-3 dB to +28 dB, 16 steps)  Wide dynamic range ON/OFF/AUTO  Noise reduction ON/OFF (level 5 to 1 / OFF, 6 steps)  Color Enhancement ON/OFF Aperture control 16 steps  Video Output IP, HD-SDI, CVBS  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 231(Ø) x 385mm(H)  Weight Approximately 6.3Kg  Body IP66, External ABS / Internal Aluminum  IR LED IR motorized Zoom  Pan 360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)  Pan Preset Speed 250°/sec, ± 0.1° Accuracy Tilt -8°(352°) to 188° movement, 0.8°~80°/sec		
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Color Enhancement Aperture control  Aperture control  Video Output  IP, HD-SDI, CVBS  NETWORK  Network interface  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  Open HTTP API (ActiveX for live cast with audio &PTZ)  Service  Image upload / Notification service  MECHANICAL  Dimension  231(Ø) x 385mm(H)  Weight  Approximately 6.3Kg  Body  IP66, External ABS / Internal Aluminum  IR LED  IR motorized Zoom  Pan  360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)  Pan Preset Speed  250°/sec, ± 0.1° Accuracy  Tilt  -8°(352°) to 188° movement, 0.8°~80°/sec		ON/OFF (level 5 to 1 / OFF, 6 steps)
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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 231(Ø) x 385mm(H)  Weight Approximately 6.3Kg  Body IP66, External ABS / Internal Aluminum  IR LED IR motorized Zoom  Pan 360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)  Pan Preset Speed 250°/sec, ± 0.1° Accuracy  Tilt -8°(352°) to 188° movement, 0.8°~80°/sec	Cabling & Connector type	
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PAP, CHAP, NTP, SMTP client, uPNP  SDK Open HTTP API (ActiveX for live cast with audio &PTZ)  Service Image upload / Notification service  MECHANICAL Dimension 231(Ø) x 385mm(H)  Weight Approximately 6.3Kg  Body IP66, External ABS / Internal Aluminum  IR LED IR motorized Zoom  Pan 360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)  Pan Preset Speed 250°/sec, ± 0.1° Accuracy  Tilt -8°(352°) to 188° movement, 0.8°~80°/sec	Protocol	
Service         Image upload / Notification service           MECHANICAL         231(Ø) x 385mm(H)           Dimension         231(Ø) x 385mm(H)           Weight         Approximately 6.3Kg           Body         IP66, External ABS / Internal Aluminum           IR LED         IR motorized Zoom           Pan         360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)           Pan Preset Speed         250°/sec, ± 0.1° Accuracy           Tilt         -8°(352°) to 188° movement, 0.8°~80°/sec		
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MECHANICAL         Dimension         231(Ø) x 385mm(H)           Weight         Approximately 6.3Kg           Body         IP66, External ABS / Internal Aluminum           IR LED         IR motorized Zoom           Pan         360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)           Pan Preset Speed         250°/sec, ± 0.1° Accuracy           Tilt         -8°(352°) to 188° movement, 0.8°~80°/sec	Service	Image upload / Notification service
Weight         Approximately 6.3Kg           Body         IP66, External ABS / Internal Aluminum           IR LED         IR motorized Zoom           Pan         360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)           Pan Preset Speed         250°/sec, ± 0.1° Accuracy           Tilt         -8°(352°) to 188° movement, 0.8°~80°/sec	MECHANICAL	<u> </u>
Body         IP66, External ABS / Internal Aluminum           IR LED         IR motorized Zoom           Pan         360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)           Pan Preset Speed         250°/sec, ± 0.1° Accuracy           Tilt         -8°(352°) to 188° movement, 0.8°~80°/sec		231(Ø) x 385mm(H)
Body         IP66, External ABS / Internal Aluminum           IR LED         IR motorized Zoom           Pan         360°Continuous Pan, 0.1° to 120°/sec (proportional to zoom)           Pan Preset Speed         250°/sec, ± 0.1° Accuracy           Tilt         -8°(352°) to 188° movement, 0.8°~80°/sec	Weight	Approximately 6.3Kg
IR LED         IR motorized Zoom           Pan         360°Continuous Pan, 0.1° to 120°/sec           (proportional to zoom)           Pan Preset Speed         250°/sec, ± 0.1° Accuracy           Tilt         -8°(352°) to 188° movement, 0.8°~80°/sec		IP66, External ABS / Internal Aluminum
(proportional to zoom)           Pan Preset Speed         250°/sec, ± 0.1° Accuracy           Tilt         -8°(352°) to 188° movement, 0.8°∼80°/sec	IR LED	IR motorized Zoom
(proportional to zoom)           Pan Preset Speed         250°/sec, ± 0.1° Accuracy           Tilt         -8°(352°) to 188° movement, 0.8°∼80°/sec	Pan	360°Continuous Pan, 0.1° to 120°/sec
Tilt -8°(352°) to 188° movement, 0.8°~80°/sec		(proportional to zoom)
Tilt -8°(352°) to 188° movement, 0.8°~80°/sec	Pan Preset Speed	250°/sec, ± 0.1° Accuracy
		-8°(352°) to 188° movement, 0.8°~80°/sec
		(proportional to zoom)
Tilt Preset Speed 250°/sec, ± 0.05° Accuracy	Tilt Preset Speed	250°/sec, ± 0.05° Accuracy
ELECTRICAL	ELECTRICAL	·
Power Source AC21~26V 60Hz / 50Hz(Power adaptor not included)		AC21~26V 60Hz / 50Hz(Power adaptor not included)
Heater & Cooling Fan 30W / 10000RPM Cooling Fan		30W / 10000RPM Cooling Fan
Operating Temperature -50°C to 70°C	Operating Temperature	-50°C to 70°C
Humidity 0% to 90% (non-condensing)		