

Extreme performance - under - Extreme conditions

The **AeroPTZ** is an environmentally rugged camera designed to meet extreme weather conditions.

Using the latest aerodynamic technology and salt-air corrosion resistant glass fiber body, the **AeroPTZ** can withstand the beating from tropical storms, arctic blizzards, extreme hot and cold temperatures, and gale-force winds.

Additionally, a unique Panasonic Video Stability Augment System (SAS) delivers superior, high-class hybrid image stabilization for extreme scenes with vibration.

Making the **AeroPTZ** well-suited for ports, cities, highway, transit, airports and other outdoor mission critical environments where failure is not an option.

Key Features

- Full HD (1080p) 60 fps, 30x zoom lens
- **Built-in wiper and Auto defroster**
- Wind load durability **60 m/s (135 mph)*** (operation)
80 m/s (180 mph) (non-destructive)
* Upright position
- **Video SAS (Stability Augment System)** for high-class image stabilization
- “Sphere vision” provides **360° 3D viewing**
(Pan : 360° endless, tilt : 90° to -90°)
- Temperature **-50 °C to +60 °C (-58 °F to +140 °F)***
* Natural Silver model only. Not available IR LED Unit when the temperature is over 55 °C.
Gray & Brown model : up to +55 °C.
- **IP67, IP66, IK10 certified**
- **Optional IR LED light** (up to **150 m/500 feet**, zoom interlocking)
- **Anti-salt air corrosion protection** ideal for seaside operations
- **Smart coding mode** for additional compression



WV-SUD638 (Natural Silver)
WV-SUD638-H (Gray)
WV-SUD638-T (Brown)

IR LED Unit : Optional
WV-SUD6FRL1 (Natural Silver)
WV-SUD6FRL-H (Gray)
WV-SUD6FRL-T (Brown)



Industry examples



Safe city



Port facility



Critical Infrastructure



Airport



Railway



Traffic

Specifications

| | | | |
|------------------|---|---|---|
| Camera | Image sensor | Approx. 1/3 type MOS image sensor | |
| | Minimum illumination | Color : 0.06 lx (F1.6, Maximum shutter : Off(1/30 s), AGC : High) 0.004 lx (F1.6, Maximum shutter : max. 16/30 s, AGC : High)* BW : 0.02 lx (F1.6, Maximum shutter : Off(1/30 s), AGC : High) 0.001 lx (F1.6, Maximum shutter : max. 16/30 s, AGC : High)* 0 lx (F1.6, Maximum shutter : Off(1/30 s), AGC : High, when the IR LED (Optional) is lit) * Converted value | |
| | Super Dynamic*1 | Dynamic Range 105 dB typ. | |
| | Image settings | Gain (AGC), White balance | |
| | Image compensation | Adaptive black stretch, Back light compensation (BLC), Fog compensation, High light compensation (HLC), Digital noise reduction | |
| | Shutter speed | [2 mega pixel [16 : 9] (60 fps mode)] Off(1/60) to 1/10000 Other than [2 mega pixel [16 : 9] (60 fps mode)] Off(1/30) to 1/10000 | |
| | Day/Night (ICR) | Off / On / Auto1(Normal) / Auto2(IR Light) / Auto3(SCC) | |
| | IR LED Light (Optional) | Off / Auto (High / Mid / Low) irradiation distance : 150 m (500 feet) | |
| | Image stabilization | On / Off *Hybrid image stabilizer | |
| | Privacy zone | Gray / Mosaic / Off (up to 32 zones available) | |
| | Camera title on screen | Up to 20 characters (alphanumeric characters, marks) | |
| | Video Motion Detection (VMD) | On / Off, 4 areas available | |
| Lens | Zoom Ratio | 30x / 45x with HD extra optical zoom (at 1280 x 720) (Motorized zoom / Auto Focus) | |
| | Digital (electronic) zoom | x1, x2, x4 | |
| | Focal length | 4.3 mm - 129 mm (3/16 inches - 5-3/32 inches) | |
| | Maximum Ratio Aperture | 1 : 1.6 (WIDE) - 1 : 4.7 (TELE) | |
| | Focus range | 2.0 m - ∞ | |
| | Aperture range | F1.6 (WIDE) - Close | |
| | Angular field of view | [16 : 9 mode] Horizontal : 2.3° (TELE) - 64° (WIDE) Vertical : 1.3° (TELE) - 38° (WIDE) [4 : 3 mode] Horizontal : 1.8° (TELE) - 50° (WIDE) Vertical : 1.3° (TELE) - 38° (WIDE) | |
| | Pan/tilt unit | Panning Range | 360° endless |
| Panning Speed | | Manual : approx. 0.065°/s to 100°/s Preset : up to approx. 200°/s (Except when IR LED Unit is equipped, forward tilt mount, frozen.) | |
| Tilting Range | | Upright : -45° to +90° Forward tilt : -90° to +90° Hanging : -90° to +30° | |
| Tilting Speed | | Manual : approx. 0.065°/s to 100°/s Preset : up to approx. 200°/s (Except when IR LED Unit is equipped, forward tilt mount, frozen.) | |
| Preset Positions | | 256 positions | |
| Auto Mode | | Auto track / Auto pan / Preset sequence / 360 map-shot / Preset map-shot / Patrol | |
| Self Return | | 10 s to 60 min | |
| Tilt flip | | On / Off | |
| Map Shot | | 360° map shot / preset map shot | |
| Network IF | | 10Base-T / 100Base-TX, RJ45 connector | |
| Network | | Image Resolution | *2 mega pixel [16 : 9] (60 fps mode / 30 fps mode) H.264 : Minimum 1,920 x 1080 JPEG (MJPEG) : Minimum 1,920 x 1080 *1.3 mega pixel [4 : 3] (30 fps mode) H.264 : Minimum 1,280 x 960 JPEG : Minimum 1,280 x 960 |
| | | Image compression method | H.264 Transmission Mode : Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR Transmission type : Unicast / Multicast JPEG Image Quality : 10 steps Multiple streams individually configurable |
| | Intelligent compression | Smart coding, VIOS (ROI) | |
| | Audio compression | G.726 (ADPCM) : 32 kbps / 16 kbps G.711 : 64 kbps AAC-LC ² : 64 kbps, AAC-LC(High quality) ² : 64 kbps / 96 kbps / 128 kbps | |
| | Protocol | IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP, DiffServ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, DiffServ | |
| | Maximum concurrent access number | Up to 14 users (Depends on network conditions) | |
| | Mobile terminal compatibility (As of September, 2016) | iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals | |
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- Android is a trademark of Google Inc.
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Important

- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

- Design and specifications are subject to change without notice.
- Masses and dimensions are approximate.

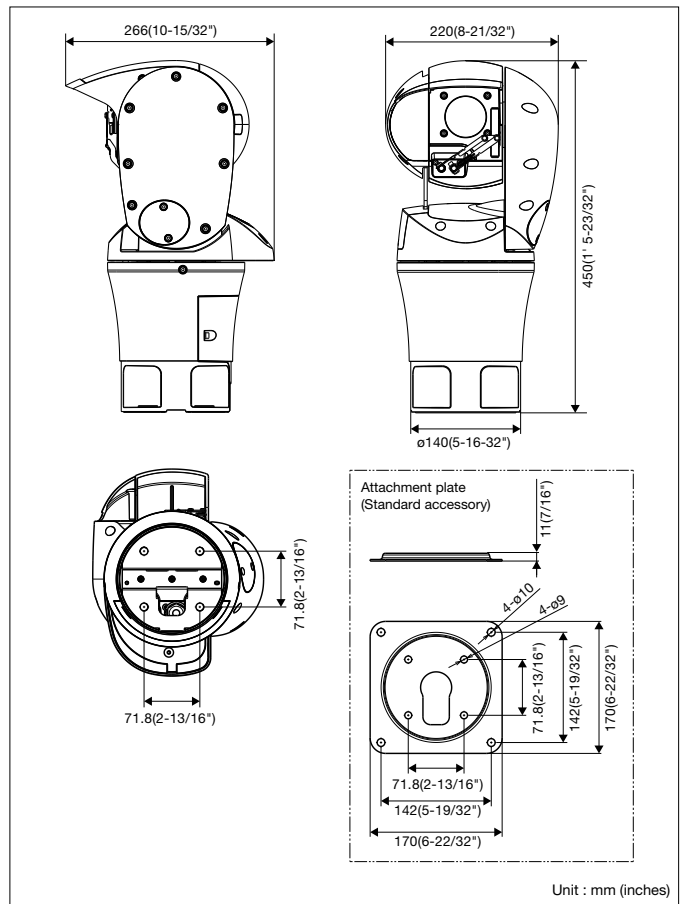
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|--------------------|---------------------------|--|
| Environment | Water and Dust Resistance | Main body : IP66, IP67, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Waterproof RJ45 connector, Waterproof power connector, Waterproof I/O connector |
| | Shock resistance | Compliant with IK10 (IEC 62262) |
| | Salt damage resistance | ISO14993 compliant |
| | Resistance to wind | Upright 60 m (134 mph) (Operation) / 80 m (180 mph) (non-destructive) Forward tilt 50 m (112 mph) (Operation) / 80 m (180 mph) (non-destructive) |
| General | Power source | AC100 to 240 V, 50 Hz / 60 Hz Tested PoE Injector* (60 W) *with limitations |
| | Operating environment | Ambient operating temperature : -50 °C to +60 °C (-58 °F to 140 °F) (When using AC100 to 240 V) -30 °C to +60 °C (-22 °F to 140 °F) (When using tested PoE Injector) (Power on range : -30°C to +55 °C(-22 °F to 158 °F)) *Natural Silver model only. Not available IR LED Unit when the temperature is over 55 °C. Gray & Brown model : up to +55 °C. Ambient operating humidity : 10 % to 100 % |
| | External I/O terminals | ALARM IN 1(DAY/NIGHT IN, Auto time adjustment), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT), Relay connection (x1 for each) |
| | line input | ø3.5 mm monaural mini jack Input impedance : Approx. 2 kΩ (unbalanced) |
| | For line input | Input level : Approx. -10 dBV |
| | Audio output | ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Using Amplifier built-in external speaker Output level : -20 dBV |
| | Dimensions | 220 mm (W) x 450 mm (H) x 266 mm (D) (8-21/32 inches (W) x 1ft 5-23/32 inches (H) x 10-15/32 inches (D)) |
| | Mass (approx.) | Approx. 8 kg {17.64 lbs} |
| | Finish | Main body : High-strength resin of salt damage resistance WV-SUD638 : Natural Silver WV-SUD638-H : Gray (N7) WV-SUD638-T : Brown (Environmental color) Front glass : Glass, Clear |

*1 Super Dynamic function is automatically set off on 60 fps mode.

*2 When "AAC-LC (HIGH QUALITY)" is selected, there are limitations about the following function.
- HTTPS is not available.
- The maximum concurrent access number is limited to 5

*3 Only when installation work specified in Installation Guide is properly performed and appropriate waterproof treatment is performed.

Appearance



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