

# AI 12X/20X/23X PTZ Bullet Plus Network Camera

NDA A 



IP66

AF Lens



DATASHEET

## Key Features

- ▶ NDA A Compliance (The fully NDA A-compliant products are well suited for government, defense and a range of projects subject to the NDA A.)
- ▶ Smart IR II (Combining the High Beam and Low Beam to adjust IR intensity to fit different lighting conditions.)
- ▶ 60fps/90fps High Frame Rate (Camera can easily catch images with no latency despite of the high-speed movement.)
- ▶ PTZ Auto Tracking (Perform Pan/Tilt/Zoom to track the moving objects in a proper size automatically.)
- ▶ Smart PTZ Motion Detection (Pan and tilt to the position of motion detected area automatically and zoom in synchronously.)
- ▶ 300 Preset Positions (The user can easily control the lens position via mouse to monitor interested area and set up to 300 preset positions for patrolling.)
- ▶ Keyboard Control (Shortcut keys for PTZ control via Keyboard.)
- ▶ Smart Stream (Bandwidth, storage and bit rate save with Smart Stream ON, e.g. H.265+ save 70%~80% bandwidth of H.264.)

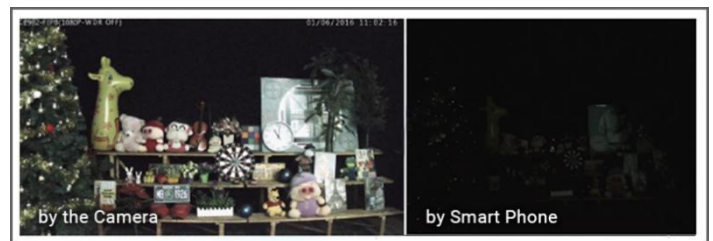
## AI Video Analytics

- 8 intelligent VCA modes powered by AI engine, which can intelligently filter objects to focus on human and vehicle detection.
- People Counting technology provides high accuracy and real-time data based on AI algorithm with statistic reports.
- Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency.



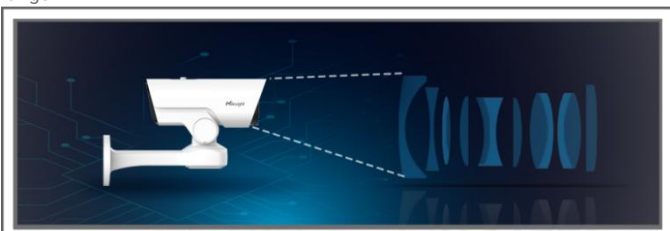
## 0.002Lux Ultra Low-light

The starlight camera is able to deliver high detailed color image even in low light environment reaching 0.002Lux or 0Lux(B/W), and near infrared light environments without any supplementary lighting.



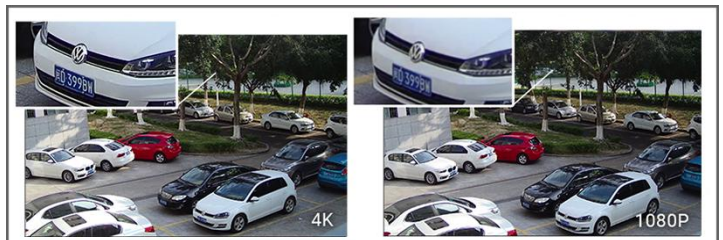
## 12X/20X/23X Optical Zoom

The 12X/20X/23X optical zoom can zoom up to distant subjects while still maintaining the clarity, delivering high quality video over the entire zoom range.



## 30fps@4K

Providing 4K HD resolution with frame rate of 30fps, the camera performs well in catching detailed image regardless of the moving speed.



# AI 12X/20X/23X PTZ Bullet Network Camera



	Model	MS-C2967-X12R(T)PE (2MP)	MS-C2967-X23R(T)PE (2MP)
<b>Camera</b>	Image Sensor	1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.5 B/W: 0Lux with IR on
	WDR	140dB Super WDR (Super WDR Pro is optional for T Series)	
	Shutter Time	1/100000s~1s	
	IR Distance	Up to 180m	
	Digital Zoom	16X	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
<b>Lens</b>	Lens	5.3~64mm, <b>12X</b> Optical Zoom	5~117mm, <b>23X</b> Optical Zoom
	Field of View	H61°~H5°/D69°~D5°/V36°~V2°	H60°~H3°/D69°~D4°/V35°~V2°
	Zoom Speed	Approx 4s (Wide-Tele)	Approx 6s (Wide-Tele)
	Focus Control	Auto/Semi-Auto/Manual	
	Minimum Working Distance	1000/1500mm (Wide/Tele)	1000/1500mm (Wide/Tele)
	Aperture	F1.6~F2.8	F1.5~F3.5
	Iris Control	Auto	
<b>PTZ</b>	Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s	
	Tilt Range/Tilt Speed	-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s	
	Proportional Zoom	Support	
	Preset Quantity	300	
	Patrol	8 Patrols, up to 48 presets each patrol	
	Pattern	4 Patterns	
	Auto Tracking	Support	
	Power Off Memory	Support	
Other Function	Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position		
<b>Video</b>	Max. Image Resolution	1920x1080	
	Primary Stream	60Hz: <b>90fps@(1920x1080)(Optional for T Series)</b> , 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: <b>90fps@(1920x1080)(Optional for T Series)</b> , 50fps@(1920x1080, 1280x960, 1280x720, 704x576)	
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240)	
	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	

# AI 12X/20X/23X PTZ Bullet Network Camera



<b>Video</b>	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)
	ROI	Up to 8 areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
<b>Interface</b>	Ethernet	1*RJ45 10M/100M Ethernet Port
	Audio I/O	1/1
	Alarm I/O	1/1
<b>Network</b>	Network Storage	NAS(Support NFS, SMB/CIFS), ANR
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL
<b>Audio</b>	Audio Compression	G.711/AAC/G.722/G.726
	Audio Sampling Rate	8/16/32/44.1/48KHz
	Audio Bit Rate	16~256kbps
	Two-way Audio	Support
<b>Intelligent Analytics</b>	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed
	Face Detection&Face Attribute Recognition	Detect and capture faces, get real-time snapshots;The attributes include Age, Gender, Glasses, Mask and Cap; Support Faces Privacy Mode, the detected faces in the face detection area will be mosaic automatically.
	People Counting&Report	Count the number of people entering or exiting,up to 4 detection areas for regional people counting
<b>System</b>	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR,Defog, AWB, IP Address Filtering,AGC, Anti-flicker, Corridor Mode, Deblur,Watermark
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.
	System Compatibility	ONVIF Profile G & M & S & T, API
<b>General</b>	Working Temperature	-40°C~60°C
	Working Humidity	0~90%(Non-condensing)
	Power Supply	PoE (802.3at) / DC 12V/3A±10%
	Power Consumption	13W MAX / 23W MAX (With IR on)
	Weather Proof	Up to IP66-rated for Weather-resistant Performance
	Weight	2.9Kg
	Dimensions	110mmX337mmX220mm
	Warranty	2 Years / 3 Years (Optional)

# AI 12X/20X/23X PTZ Bullet Network Camera



	Model	MS-C5367-X12PE (5MP)	MS-C5367-X23PE (5MP)
<b>Camera</b>	Image Sensor	1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.5 B/W: 0Lux with IR on
	WDR	120dB Super WDR	
	Shutter Time	1/100000s~1s	
	IR Distance	Up to 180m	
	Digital Zoom	16X	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
<b>Lens</b>	Focal Length	5.3~64mm, <b>12X</b> Optical Zoom	5~117mm, <b>23X</b> Optical Zoom
	Zoom Speed	Approx 4s (Wide-Tele)	Approx 6s (Wide-Tele)
	Field of View	H61°~H5°/D69°~D5°/V36°~V2°	H55°~H3°/D68°~D4°/V42°~V2°
	Focus Control	Auto/Semi-Auto/Manual	
	Minimum Working Distance	1000/1500mm (Wide/Tele)	
	Aperture	F1.6~F2.8	F1.5~F3.5
	Iris Control	Auto	
	<b>PTZ</b>	Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s
Tilt Range/Tilt Speed		-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s	
Proportional Zoom		Support	
Preset Quantity		300	
Patrol		8 Patrols, up to 48 presets each patrol	
Pattern		4 Patterns	
Auto Tracking		Support	
Power Off Memory		Support	
Other Function		Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position	
<b>Video</b>	Max. Image Resolution	2592x1944	
	Primary Stream	60Hz: 30fps@(2592x1944), 30fps@(2048x1536), 30fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(2592x1944), 25fps@(2048x1536), 25fps@(1920x1080, 1280x960, 1280x720, 704x576)	
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	
	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	
	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)	
	ROI	Up to 8 areas	
	Image Setting	Brightness/Contrast/Saturation/Sharpness	

# AI 12X/20X/23X PTZ Bullet Network Camera



<b>Interface</b>	Ethernet	1*RJ45 10M/100M Ethernet Port
	Audio I/O	1/1
	Alarm I/O	1/1
<b>Network</b>	Network Storage	NAS(Support NFS, SMB/CIFS), ANR
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL
<b>Audio</b>	Audio Compression	G.711/AAC/G.722/G.726
	Audio Sampling Rate	8/16/32/44.1/48KHz
	Audio Bit Rate	16~256kbps
	Two-way Audio	Support
<b>Intelligent Analytics</b>	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed
	Face Detection&Face Attribute Recognition	Detect and capture faces, get real-time snapshots;The attributes include Age, Gender, Glasses, Mask and Cap; Support Faces Privacy Mode, the detected faces in the face detection area will be mosaic automatically.
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting
<b>System</b>	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.
	System Compatibility	ONVIF Profile G & M & S & T, API
<b>General</b>	Working Temperature	-40°C~60°C
	Working Humidity	0~90%(Non-condensing)
	Power Supply	PoE (802.3at) / DC 12V/3A±10%
	Power Consumption	13W MAX / 23W MAX (With IR on)
	Weather Proof	Up to IP66-rated for Weather-resistant Performance
	Weight	2.9Kg
	Dimensions	110mmX337mmX220mm
	Warranty	2 Years / 3 Years (Optional)

# AI 12X/20X/23X PTZ Bullet Network Camera



	Model	MS-C4467-X20RPE (4MP)	MS-C8267-X20PE (4K)
<b>Camera</b>	Image Sensor	1/1.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.009Lux@F1.6 B/W: 0Lux with IR on
	WDR	120dB Super WDR	
	Shutter Time	1/100000s~1s	
	IR Distance	Up to 180m	
	Digital Zoom	16X	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
<b>Lens</b>	Focal Length	6.4~128mm, <b>20X</b> Optical Zoom	
	Zoom Speed	Approx 5s (Wide-Tele)	
	Field of View	H60°~H3°/D67°~D4°/V37°~V1°	
	Focus Control	Auto/Semi-Auto/Manual	
	Minimum Working Distance	1000/2000mm (Wide/Tele)	
	Aperture	F1.6~F4.0	F1.6~F4.0
	Iris Control	Auto	
<b>PTZ</b>	Pan Range/Pan Speed	<b>360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s</b>	
	Tilt Range/Tilt Speed	-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s	
	Proportional Zoom	Support	
	Preset Quantity	300	
	Patrol	8 Patrols, up to 48 presets each patrol	
	Pattern	4 Patterns	
	Auto Tracking	Support	
	Power Off Memory	Support	
Other Function	Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position		
<b>Video</b>	Max. Image Resolution	2688x1520	3840x2160
	Primary Stream	60Hz: 60fps@(2688x1520, 2304x1296, 1920x1080, 1280x720) 50Hz: 50fps@(2688x1520, 2304x1296, 1920x1080, 1280x720)	60Hz: 30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240)	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240)	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG	

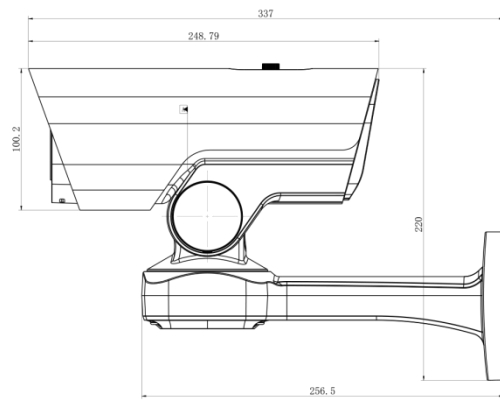
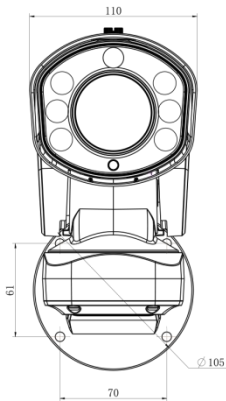
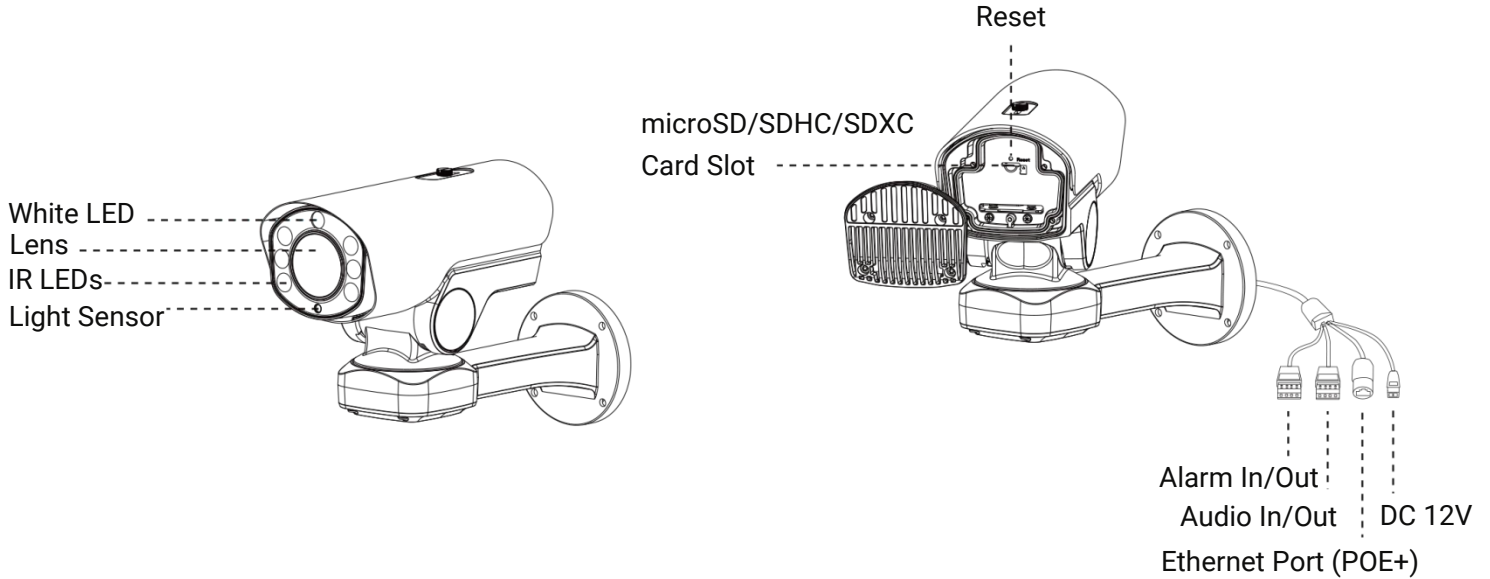
# AI 12X/20X/23X PTZ Bullet Network Camera



<b>Video</b>	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)
	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)
	ROI	Up to 8 areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
<b>Interface</b>	Ethernet	1*RJ45 10M/100M Ethernet Port
	Audio I/O	1/1
	Alarm I/O	1/1
<b>Network</b>	Network Storage	NAS(Support NFS, SMB/CIFS), ANR
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL
<b>Audio</b>	Audio Compression	G.711/AAC/G.722/G.726
	Audio Sampling Rate	8/16/32/44.1/48KHz
	Audio Bit Rate	16~256kbps
	Two-way Audio	Support
<b>Intelligent Analytics</b>	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed
	Face Detection&Face Attribute Recognition	Detect and capture faces, get real-time snapshots;The attributes include Age, Gender, Glasses, Mask and Cap; Support Faces Privacy Mode, the detected faces in the face detection area will be mosaic automatically.
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting
<b>System</b>	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.
	System Compatibility	ONVIF Profile G & M & S & T, API
<b>General</b>	Working Temperature	-40°C~60°C
	Working Humidity	0~90%(Non-condensing)
	Power Supply	PoE (802.3at) / DC 12V/3A±10%
	Power Consumption	14W MAX / 24W MAX (With IR on)
	Weather Proof	Up to IP66-rated for Weather-resistant Performance
	Weight	2.9Kg
	Dimensions	110mmX337mmX220mm
	Warranty	2 Years / 3 Years (Optional)



## Structure Diagrams



Units: mm

## Accessories Support

### A01 Pole Mount

Weight: 720g

Dimensions: 170\*51.5\*152.6mm



### A03 External Corner Bracket

Weight: 900g

Dimensions: 170\*152.5\*76.3mm



### A62 Junction Box

Weight: 510g

Dimensions: 134\*126\*40mm

