

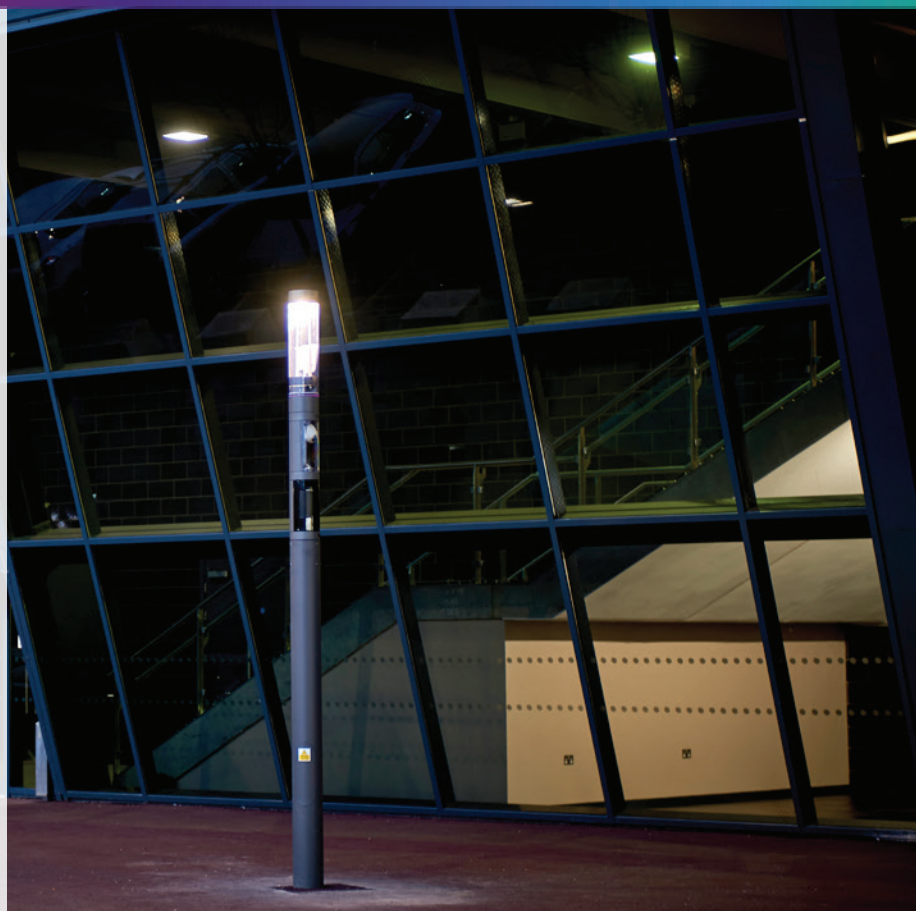


SHUFFLE CAM GEN2 INTERNAL SOLUTION

SHUFFLE is a connected, modular approach to city hardware - with its plug-and-play rotatable modules that contain pre-certified hardware, it can be configured to suit your specific needs.

KEY ADVANTAGES

- > **Seamless integration in the SHUFFLE column**
- > **Professional Network camera**
- > **Easy installation with patented mounting system**
- > **Compatible with different video management systems**



The SHUFFLE CAM GEN2 (internal) module offers a solution for integrating a camera in a non-intrusive public CCTV solution. It is designed to offer cities a way to improve and increase security in public spaces.

Our selection of cameras support a wide range of applications from security to business intelligence and additional plug-ins offering new efficiencies and opportunities.

- The cameras with infrared capabilities are specifically chosen to ensure excellent visibility under different conditions. IR LED can produce clear monochrome images in 0 lux conditions.
- The cameras with Intelligent Auto (iA) adjust settings in real time, adapting to their surroundings to reduce distortion or motion blur.

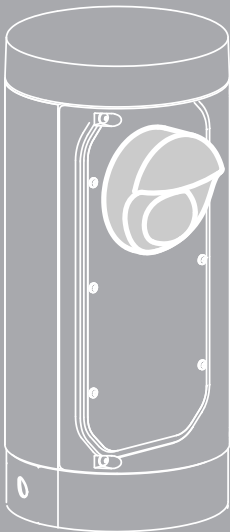
Modules are in high-grade and high-pressure die-cast aluminium. A clear polycarbonate protector is used to protect the camera and secure the module. All fasteners are in stainless steel. The housing is covered in the highest graded polyester powder paint supporting a variety of colours.



SHUFFLE CAM GEN2 | CHARACTERISTICS

KEY FEATURES

- > **Resolution: 2 MP (1920 x 1080) and 5 MP (2592 x 1944)**
- > **Image optimisation (backlight, contrast, night vision, high brightness)**
- > **Privacy layers**
- > **ONVIF communication standard**
- > **Event triggering: motion detection, video analytics, tampering...**
- > **Digital zoom**
- > **Data optimisation: selected and/or delayed transmission, on-site recording (SD memory slot)**

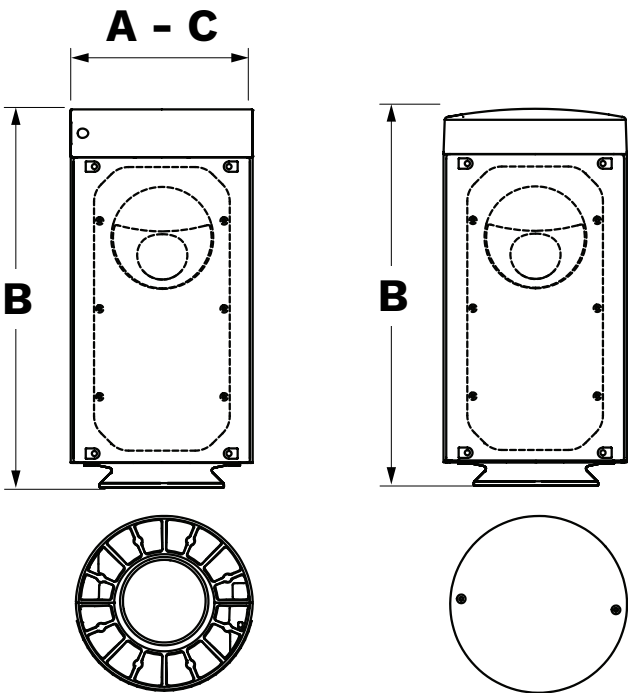


COMPARISON TABLE

	SH18C2-HK i-Pro	SH18C2-GB AXIS	SH18C2-JH Hikvision	SH18C2-M4 Hanwha
Camera Megapixels	2	2	2	5
Smart features	No	Yes	Yes	Yes
Angular field of view	Horizontal : 132° Vertical : 74°	Horizontal : 110° Vertical : 62°	Horizontal : 105° Vertical : 56°	Horizontal : 100° Vertical : 73°
IR	21m	No	10m	20m
Power consumption	3.8W	6.4W	7.5W	8.5W
UL Mark	No	Yes	Yes	Pending

DIMENSIONS AND MOUNTING

AxBxC (mm inch)	194x403x194 7.6x15.9x7.6
Weight (kg lbs)	6.4 14.1
Aerodynamic resistance (CxS)	0.08
Mounting possibilities	Clamps



SHUFFLE CAM GEN2 INTERNAL SH18C2-HK | CHARACTERISTICS

GENERAL		CAMERA	
Recommended installation height	2.3m to 6.8m 7.5' to 22.3'	Brand	i-Pro
CE mark	Yes	Model	WV-S35302-F2L iA (intelligent Auto) 2MP Compact dome camera
UKCA mark	Yes		[16:9 mode(60 fps mode/ 30 fps mode/ 50 fps mode/ 25 fps mode)]1920x1080/ 1280x720/ 640x360/ 320x180
ROHS compliant	Yes	Resolution	[4:3 mode(30 fps mode/ 25 fps mode)] 1280x960/ VGA/ QVGA
HOUSING AND FINISH		H.265/ H.264	
Housing	Aluminium	JPEG (MJPEG)	[4:3 mode(15 fps mode/ 12.5 fps mode)] 2048x1536* / 1280x960/ VGA/ QVGA
Protector	Polycarbonate		*Used by super resolution techniques 2 mega pixel [16:9]
Housing finish	Polyester powder coating	Focal length	2.4mm {3/32inches}
Standard colour	AKZO grey 900 sanded	Angular field of view	[16 : 9 mode] Horizontal : 132° Vertical : 74° [4:3 mode] Horizontal: 99° Vertical: 74°
Tightness level	IP 66	Maximum aperture ratio	1 : 2.1
Impact resistance	IK 09	Minimum Illumination	Colour : 0.02 lx (30IRE, F2.1, 1/30 s) Colour : 0.03 lx (50IRE, F2.1, 1/30 s) BW : 0.02 lx (50IRE, F2.1, 1/30 s) BW : 0 lx (50IRE, F2.1, 1/30 s with IR LED)
Ta	-40°C to +50°C -40°F to +122°F	Focus range	0.5 m {19-11/16 inches} - ∞
ELECTRICAL		Adjusting angle	Horizontal (PAN) angle: ±45° Vertical (TILT) angle: 0 to +90° Azimuth (YAW) angle: ±90°
Electrical class	Class I EU, Class II EU	Memory card	microSDXC / microSDHC / microSD
Power consumption	3.8W	Power source	PoE (IEEE802.3af Compliant)
SHUFFLE		No. of simultaneous users	Up to 14 users (depends on network conditions)
SHUFFLE pole versions	2 doors same side 3 doors		IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802.1X, DiffServ
SHUFFLE components	Mains box Beyond light supply box	Network protocol	IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ
	Support plate network		SSL/TLS, SNMPv1/v2/v3, LLDP, SFTP, MQTT
	Network cable	Network connector	RJ45
Location on pole	Any position	Image sensor	Approx.1/2.8 type CMOS image sensor



SHUFFLE CAM GEN2 INTERNAL SH18C2-GB | CHARACTERISTICS

GENERAL		CAMERA	
Recommended installation height	2.3m to 6.8m 7.5' to 22.3'	Brand	AXIS
CE mark	Yes	Model	P3925-R AXIS P3925-R Network Camera
UKCA mark	Yes	Resolution	2 mega pixel [16:9] (25/30 fps) 1,920x1,080
UL mark	Yes	H.265/ H.264	
ROHS compliant	Yes	JPEG (MJPEG)	1 mega pixel [16:9] (45 fps) 1,280x720
HOUSING AND FINISH		Focal length	2.8 mm {1/8 inches}
Housing	Aluminium	Angular field of view	[16 : 9 mode] Horizontal : 110° Vertical : 62°
Protector	Polycarbonate	Maximum aperture ratio	2.8mm F1.6
Housing finish	Polyester powder coating	Minimum Illumination	Colour: 0.06 lux at 30 IRE F1.6 B/W: 0.01 lux at 30 IRE F1.6 Colour: 0.12 lux at 50 IRE F1.6 B/W: 0.02 lux at 50 IRE F1.6
Standard colour	AKZO grey 900 sanded	Adjusting angle	Horizontal (PAN) angle: ±30° Vertical (TILT) angle: 15 to +90° Azimuth (YAW) angle: ±175°
Tightness level	IP 66	Memory card	microSDXC / microSDHC / microSD
Impact resistance	IK 09	Power source	PoE (IEEE 802.3af)
Ta	-40 °C to 55°C -40 °F to 131°F	Multi-view streaming	Up to 8 individually cropped out view areas
ELECTRICAL		Network protocol	IPv4, IPv6 USGv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)
Electrical class	Class I EU, Class II EU, Class 1 US		
Power consumption	6.4W	Network connector	RJ45
SHUFFLE		Image sensor	1/2.9" Progressive scan RGB CMOS
SHUFFLE pole versions	2 doors same side 3 doors	Image optimisation	WDR mode
SHUFFLE components	Mains box Beyond light supply box	Smart features	Included AXIS Video Motion Detection, active tampering alarm, blocked view detection, shock detection
	Support plate network		Supported AXIS Motion Guard, AXIS Loitering Guard, AXIS Fence Guard Support for AXIS Camera Application Platform enabling installation of third-party applications.
Location on pole	Any position		



SHUFFLE CAM GEN2 INTERNAL SH18C2-JH | CHARACTERISTICS

GENERAL	
Recommended installation height	2.3m to 6.8m 7.5' to 22.3'
CE mark	Yes
UKCA mark	Yes
UL mark	Yes
ROHS compliant	Yes
HOUSING AND FINISH	
Housing	Aluminium
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 09
Ta	-30 °C to 75°C -22°F to 167°F
ELECTRICAL	
Electrical class	Class I EU, Class II EU, Class 1 US
Power consumption	7.5 W
SHUFFLE	
SHUFFLE pole versions	2 doors same side 3 doors
SHUFFLE components	Mains box Beyond light supply box
	Support plate network
	Network cable
Location on pole	Any position



CAMERA	
Brand	Hikvision
Model	DS-2XM6726G0-(IDS)(IS/ND) 2 MP IR Mobile Dome Network Camera
Resolution H.265/ H.264 JPEG (MJPEG)	2 mega pixel [16:9] (30 fps) 1,920x1,080
Lens type	Fixed lens, 2/2.8/4/6/8 mm
Angular field of view	2.8 mm, horizontal FOV 105° vertical FOV 56°
Maximum aperture ratio	2mm: F2.25 2.8 /4/6 /8mm: F1.6
Minimum illumination	Colour: 0.01 Lux @ (F1.6, AGC ON)
Adjusting angle	Horizontal (PAN) angle: -30° to +30° Vertical (TILT) angle: 0° to 75° Azimuth (YAW) angle: 0° to 360°
Memory card	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Power source	PoE (IEEE 802.3af)
Simultaneous live view	Up to 8 channels
User/Host	Up to 16 users, 3 levels: Administrator, Operator and User
Network protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, Email ,RTP, RTSP, RTCP, NTP, UPnP, SMTP, SNMP, ICMP 802.1X, QoS, IPv6, Bonjour, ISUP5.0
Network connector	RJ45
Image sensor	1/2.8" CMOS Progressive Scan
Image optimisation	WDR mode
Smart features	Motion detection, video tampering alarm,
	Line crossing detection, Configurable intrusion detection, Unattended baggage detection, Object removal detection Face detection

SHUFFLE CAM GEN2 INTERNAL SH18C2-M4 | CHARACTERISTICS

GENERAL	
Recommended installation height	2.3m to 6.8m 7.5' to 22.3'
CE mark	Yes
UKCA mark	Yes
UL mark	Pending
ROHS compliant	Yes
HOUSING AND FINISH	
Housing	Aluminium
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 09
Ta	-40 °C to +55°C -40°F to +131°F
ELECTRICAL	
Electrical class	Class I EU, Class II EU, Class 1 US (pending)
Power consumption	8.5 W
SHUFFLE	
SHUFFLE pole versions	2 doors same side 3 doors
SHUFFLE components	Mains box Beyond light supply box
	Support plate network
	Network cable
Location on pole	Any position



CAMERA	
Brand	Hanwha
Model	QNV-C8011R 5MP IR Vandal Dome Camera
Resolution	5 mega pixel [16:9] (25/30 fps) H.265/ H.264 JPEG (MJPEG)
Lens type	Fixed lens, 3.0mm fixed focal
Angular field of view	H: 100° V: 73° D: 129°
Maximum aperture ratio	F1.6
Minimum illumination	Colour: 0.03Lux (F1.6, 1/30sec, 30IRE) BW: 0.003Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)
Adjusting angle	Horizontal (PAN) angle: 0° to 350° Vertical (TILT) angle: -35° to +70° Azimuth (YAW) angle: 0° to 355°
Memory card	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Power source	PoE (IEEE 802.3af, Class3)
Simultaneous live view	Up to 5 channels
User/Host	Unicast (20 users) / Multicast
Network 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, UPnP, Bonjour, LLDP, CDP, SRTP (TCP, UDP Unicast), MQTT
Network connector	RJ45
Image sensor	1/2.8" CMOS
Image optimisation	BLC, WDR, SSDR mode
Smart features	Classified object type: Person/Vehicle Attributes: Vehicle(Type:car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual area(Appear/Disappear) Based on AI engine: People counting, Vehicle counting, Queue management, Heatmap * Some of the video analytics only works with people and vehicle detection