Schréder Experts in lightability™

SHUFFLE



SHUFFLE is a connected, modular approach to city hardware - with its plugand-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 camera network
- Easy installation with patented mounting system
- > Compatible with video management systems

The SHUFFLE 180 CAMERA (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 broad range of applications from security to business intelligence. It supports additional plug-ins, offering increased efficiency and new opportunities.

The range of full HD 1080 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 Intelligent Auto (iA) feature enables the camera to automatically adjust settings in real-time adapting to its' surroundings, reducing distortion or motion blur.

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Modules are in high-grade, high-pressure die-cast aluminium. A clear protector in PC 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.

180 CAMERA INTERNAL | CHARACTERISTICS

KEY FEATURES

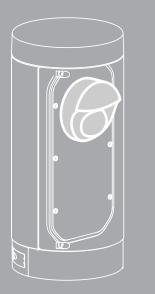
- Resolution: full HD (1920 x 1080)
- Image optimisation (backlight, contrasts, night vision, high luminosity)
- > Privacy layers
- ONVIF communication standard
- Event triggering: motion detection, video analytics, tampering...
- > Digital zoom
- Data optimisation:
 selected and/or delayed
 transmission, on-site
 recording (SD memory slot)

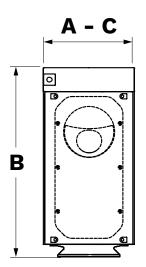
SH18C2-HKSH18C2-GBSH18C2-JHSmart featuresNoYesYesSecurity featuresImage: Image: Imag				
featuresNoYesYesSecurity features ★ ★ ★ ★★ ★ ★ ★ Angular field of viewHorizontal: 108° Vertical: 60°Horizontal: 110° Vertical: 62°Horizontal: 108° Vertical: 59.3°IR15mNo30mPower consumption3W6.4W7.5W		SH18C2-HK	SH18C2-GB	SH18C2-JH
featuresImage: Constraint of the second		No	Yes	Yes
of viewVertical: 60°Vertical: 62°Vertical: 59.3°IR15mNo30mPower consumption3W6.4W7.5W	2	★☆☆	★★☆	***
Power 3W 6.4W 7.5W				
3W 6.4W 7.5W	IR	15m	No	30m
ETL Mark Yes No No		3W	6.4W	7.5W
	ETL Mark	Yes	No	No

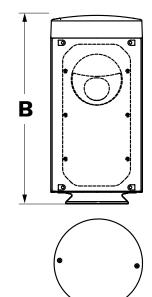
DIMENSIONS AND MOUNTING

COMPARISON TABLE

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







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180 CAMERA INTERNAL SH18C2-HK | CHARACTERISTICS

GENERAL		CAMERA	
Recommended installation height	2.3m to 6.8m 7.5' to 22.3'	Resolution	2 mega pixel [16:9] (30/60 fps) 1920x1080 / 1280x720 / 640x360 / 320x180
CE mark	Yes	H.265/ H.264	3 mega pixel [4:3] (30 fps) 2048x1536 / 1280x960 / 800x600 / 640x480 / 400x300 / 320x240
UL mark	Yes	JPEG (MJPEG)	
ROHS compliant	Yes	Lens digital zoom	Choose from 3 levels of x1, x2, x4
HOUSING AND FIN	ISH	Focal length	2.8 mm {1/8 inches
Housing	Aluminum	Angular field of view	[16 : 9 mode] Horizontal : 108° Vertical : 60°
Protector	Polycarbonate	Maximum aperture	[4:3 mode] Horizontal: 89° Vertical: 66° 1:2.3 Colour: 0.03lx, BW: 0.015lx (F2.3, Maximum shutter: Off (1/30s), AGC : 11) BW: 0lx (F2.3, Maximum shutter: Off (1/30 s), AGC : 11, when the IR LED is lit) Colour: 0.0019lx, BW: 0.0009lx (F2.3, Maximum shutter: max. 16/30s, AGC: 11)
Housing finish	Polyester powder coating	ratio	
Standard colour	AKZO grey 900 sanded		
Tightness level	IP 66	Minimum	
Impact resistance	IK 09	Illumination	
Та	-30°C to +50°C -22°F to +122°F		
	22 I LU I IZZ I	Focus range	0.5 m {19-11/16 inches} - ∞
ELECTRICAL			Horizontal (PAN) angle: $\pm 45^{\circ}$
Electrical class	Class I EU, Class II EU, Class I US	Adjusting angle	Vertical (TILT) angle: 0 to +90° Azimuth (YAW) angle: ±90°
Power consumption	1 3.8W	Memory card	microSDXC / microSDHC / microSD
SHUFFLE		Power source	PoE (IEEE 802.3af)
SHUFFLE pole	2 doors same side 3 doors	No. of simultaneous users	Up to 14 users (depends on network conditions)
SHUFFLE components	Mains box Beyond light supply box		IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802.1X, DiffServ 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		
	Network cable	Network protocol	
Location on pole	Any position		
		Network connector	RJ45
		Image sensor	Approx. 1/3 type CMOS image sensor

Image optimisation

Smart features



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Backlight, contrasts, night vision, high

luminosity

No

180 CAMERA INTERNAL SH18C2-GB | CHARACTERISTICS

GENERAL		CAMERA	
Recommended installation height	2.3m to 6.8m 7.5' to 22.3'	Resolution	2 mega pixel [16:9] (25/30 fps) 1,920x1,080
CE mark	Yes	— H.265/ H.264 JPEG (MJPEG)	1 mega pixel [16:9] (45 fps)
UL mark	No		1,280x720
ROHS compliant	Yes	Focal length	2.8mm {1/8 inches
		Angular field of view	[16:9 mode] Horizontal: 110° Vertical: 62°
HOUSING AND FIN	ISH	Maximum aperture	2.8mm F1.6
Housing	Aluminum	ratio	
Protector	Polycarbonate	Minimum	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
Housing finish	Polyester powder coating	Illumination	
Standard colour	AKZO grey 900 sanded		Horizontal (PAN) angle: ±30°
Tightness level	IP 66	Adjusting angle	Vertical (TILT) angle: 15 to +90° Azimuth (YAW) angle: ±175°
Impact resistance	IK 09		
Та	-40°C to 55°C -40°F to 131°F	Memory card	microSDXC / microSDHC / microSD
		Power source	PoE (IEEE 802.3af)
ELECTRICAL		Multi-view streaming	Up to 8 individually cropped out view areas
Electrical class	Class I EU, Class II EU		IPv4, IPv6 USGv6, HTTP, HTTPSb, SSL/TLSb,
Power consumption	n 6.4W	Network protocol	QoS Layer 3 DiffServ,FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3(MIB- II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMP,RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP, MQTT
SHUFFLE			
SHUFFLE pole	2 doors same side 3 doors	Network connector	RJ45
Versions SHUFFLE components	Mains box Beyond light supply box	Image sensor	1/2.9" Progressive scan RGB CMOS
	Support plate network	Image optimisation	WDR mode
	Network cable		Included
Location on pole	Any position		AXIS Video Motion Detection, active tampering alarm, blocked view detection, shock detection
		Smart features	Supported AXIS Motion Guard, AXIS Loitering Guard, AXIS Fence Guard Support for AXIS Camera



Application platform enabling installation of

third-party applications

180 CAMERA INTERNAL SH18C2-JH | CHARACTERISTICS

GENERAL		CAMERA	
Recommended installation height	2.3m to 6.8m 7.5' to 22.3'	Resolution H.265/ H.264	2 mega pixel [16:9] (30 fps) 1,920x1,080
CE mark	Yes	JPEG (MJPEG)	
UL mark	No	Lens type	Fixed lens, 2/2.8/4/6/8 mm
ROHS compliant	Yes	Angular field of view	2mm, horizontal: 132.8° vertical: 77.6° 2.8mm, horizontal: 108° vertical: 59.3° 4mm, horizontal: 82.8° vertical: 45.1° 6mm, horizontal: 52.7° vertical: 30.3°
HOUSING AND FIN			8mm, horizontal: 40.9° vertical: 22.5°
Housing	Aluminum	Maximum aperture	2mm, F2.25,
Protector	Polycarbonate	ratio	2.8/4/6mm, F2.0 8mm, F1.6
Housing finish	Polyester powder coating	Minimum	Colour: 0.002 Lux @ (F1.6, AGC ON) Horizontal (PAN) angle: -30° to +30° Vertical (TILT) angle: 0° to 75° Azimuth (YAW) angle: 0° to 360°
Standard colour	AKZO grey 900 sanded	illumination	
Tightness level	IP 66		
Impact resistance	IK 09	Aujusting angle	
Та	-30°C to 60°C -22°F to 140°F		Support for microSD/microSDHC/ microSDXC card and encryption Support for SD card with UHS Speed Class
ELECTRICAL	CTRICAL Memory ca		U1 Support for recording to network-attached
Electrical class	Class I EU, Class II EU		storage (NAS) PoE (IEEE 802.3af)
Power consumption	7.5W	Power source	· · · ·
		Simultaneous live view	Up to 6 channels
SHUFFLE		User/Host	Up to 32 users. 3 user levels: administrator, operator and user
SHUFFLE pole versions	2 doors same side 3 doors		TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
	Mains box Beyond light supply box	Network protocol	
SHUFFLE components	Support plate network		
	Network cable	Network connector	RJ45
Location on pole	Any position	Image sensor	1/2.8" Progressive scan RGB CMOS
		Image optimisation	WDR mode
		Smart features	Motion detection, video tampering alarm Line crossing detection Configurable intrusion detection

Smart features

Unattended baggage detection Object removal detection

Face detection

