



## SWC-230RBIF

Thermal-Mini-Hybrid-Bullet-Camera  
1/2.8" 2Megapixel progressive scan Sony CMOS, IP 66

### PRODUCT DESCRIPTION

#### ► Application:

The SANTEC thermal cameras are able to detect objects and persons even in darkness or under difficult light conditions, e.g. smoke, mist, dust or fog. The thermal cameras support IP and analogue (CVBS) technology. Thanks to this hybrid function, the cameras are suitable for many different applications. The thermal cameras are equipped with Intelligent Video Analysis so that you may use functions such as tripwire, intrusion or missing/added objects. A special fire warning feature is also included. Additional functions such as Region-of-Interest (ROI) and motion detection enable you to setup a comprehensive surveillance in the defined area.

#### ► Technical specifications:

Type	IP-thermal imaging camera
Sensor type	1/2.8" Progressive scan CMOS
Picture resolution (pixel)	2 MP (1920x1080)
Thermal picture resolution (pixel)	160(H)x120(V) ; interpolated: 1280x960
Video codec	H.264, MJPEG
Max. frame rate (fps)	25 at 2 MP (1920x1080)
Number of video streams	2 (1x Main, 1x Sub)
Lens mount	Intern
Iris control	DC
S/N ratio (dB)	< 50dB
Lens type	Fixlens
Focal length	Thermal: 1mm / Visual: 4mm / F1.8
Angle of view (horizontal)	Thermal: 56° / Visual: 74,8°
Angle of view (vertical)	Thermal: 44° / Visual: 44,7°
Sensitivity (Lux)	0,005lx (color)

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## ► Technical specifications:

Sensitivity (Lux)	0,0005lx (IR on)
IR cut filter	IR-Cut filter (mechanical)
Day/night mode adjustment	Auto / color / B/W
Automatic gain control (AGC)	Yes
Digital noise reduction (DNR)	Ultra 3DNR
Shutter (sec.)	1/1 - 1/30,000
White balance	Auto, manually
Backlight compensation	BLC, HLC, WDR
Wide dynamic range (WDR)	Yes
Defog function	Yes
PIP (picture-in-picture) function	Yes
Digital zoom	Yes
Mirroring (vertical)	Yes
Video fusion	Yes
Picture flip (horizontal)	Yes
Privacy zones	Yes, 4 zones
Region of Interest (ROI)	Yes, 4 zones
IVA via ONVIF Motion	No
People counting (IVA+)	No
Heatmap (IVA+)	No
Fire detection	Yes
Tripwire (IVA)	Yes
Intrusion (IVA)	Yes
Tampering Alarm	Yes
Scene change (tampering)	Yes
IVS Missing / Added	Yes
Audio detect (IVA)	Yes
Face detect (IVA)	Yes
Motion detection	Yes, 4 zones
Camera title	Yes
Video output	Yes
Audio support	Yes
Audio in-/outputs	1 / 1
Microphone	No
Audio codec	G.711a / G711u / AAC
Alarm contacts I/O	2 / 1
Alarm management	HTTP, FTP, SMTP, ONVIF
Schedule	Yes
Storage	SD-Card, NAS (SMB, NFS), PC local
Management software support	Many VMS
Supported browser	Internet Explorer 11
BURG-WÄCHTER cloud	No
Security features	HTTPS, SSL, IP Filter
Supported protocols	HTTP, TCP, NTP, IPv4, IPv6, DHCP, TELNET, ONVIF, FTP

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## ► Technical specifications:

Supported software standards	ONVIF Profile S & G, PSIA, CGI
Internal memory	Micro SD (optional), max. 128 GB
Video Content Analytics (VCA)	Yes
Ethernet connector	RJ-45
Ethernet standards	10/100Base-T
Classification	IP-66
Vandal-proof	No
Heater	Yes
Installation	Wall mount, ceiling mount and pole mount
3 axis	yes
Camera mounting	Screw mounting
Housing colour	White
Housing material	Metal / Plastic
Integrated IR-LEDs	Yes, Smart IR, off, manual
Wavelength IR-LED	850 nm
IR-LED illuminant	1
IR distance (m. ca.)	35
(Man) D-etection R-ecognition I-identification	60m - 20m - 10m
(Vehicle) D-etection R-ecognition I-identification	200m - 60m - 30m
Voltage	12 V DC, PoE
PoE standard	IEEE 802.3af
Max. Power consumption (watt)	12
Operating temperature (°C)	-30 to +55
Rel. humidity (%)	Max. 95, non-condensing
Dimensions WxDxH (mm)	90,4 x 238,6 x 90,4
Weight	1 kg
Identifier	CE, RoHS
Items included in delivery	CD, software, quick user guide

## ► Note:

SD card is not included.

## ► Recommended Accessories

SNPS-12D2	SANTEC stabilized power supply 12 V DC, 1.5 A, plug / adapter
VCA-12V-1.5ASA	SANTEC stabilized power supply unit 230V AC/12V DC, 1.5 A, with plug /adapter
SANPOWER-MS01L	1-channel PoE power supply 48V DC
SNCA-MK-4531-E	Water proof junction box for cameras IP66

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