

**KURZANLEITUNG
QUICK INSTALLATION GUIDE**

**7“ Prüfmonitor für Kameras /
7” monitor for cameras**

**Artikelbezeichnung / Part number:
SPM-IP-CVI**










Beschreibung:	Description:
<ul style="list-style-type: none">• Prüfmonitor für die Wartung und Einrichtung von analogen, AHD, CVI, TVI- und IP Netzwerk Kameras• Auch für die Überprüfung des Netzwerks geeignet (PoE Spannung, Ping, IP-Adresse)• Hochauflösendes 7“ Display mit 1280*800 Pixel Auflösung• Bedienung über Touch-Screen Display oder Bedientasten• Integrierte WLAN Funktion• ONVIF kompatibel• Datenspeicherung (Snapshots/Videos) auf SD-Karte möglich• Integrierte LED Lampe• PTZ-Steuerung, Zoom, Objektiveneinstellung über den Prüfmonitor möglich• Audio-Test• Akku- Laufzeit max. 10 Stunden (Ladezeit 6 Stunden)• Leicht zu transportieren dank passender Tasche• Unterstützt H.264 / H.265 IP Streams	<ul style="list-style-type: none">• <i>Test monitor for maintenance and installation of analogue, IP, AHD, CVI, TVI cameras</i>• <i>Also suitable for network testing (PoE power voltage, Ping, IP address)</i>• <i>High-resolution 7” display at 1280*800 pixel resolution</i>• <i>Operation via touch-screen display or control buttons</i>• <i>Integrated WiFi function</i>• <i>ONVIF compatible</i>• <i>Data storage (snapshots/video) on SD card</i>• <i>Built-in LED flashlight</i>• <i>PTZ control, zoom, lens setting via the test monitor possible</i>• <i>Audio testing</i>• <i>Battery lasts max. 10 hours (charging for 6 hours)</i>• <i>Easy to transport thanks to matching bag</i>• <i>supports H.264 / H.265 IP streams</i>

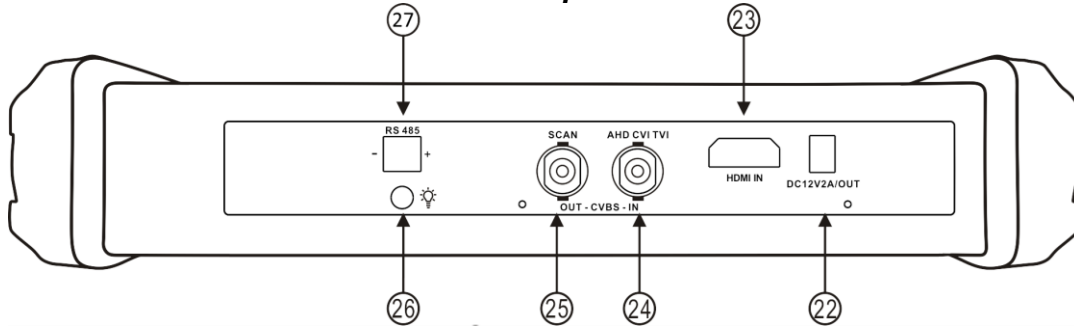
Bedientasten / Control buttons:



1		<ul style="list-style-type: none"> • Mind. 2 Sek. gedrückt halten: Testmonitor wird ein/aus geschaltet • Bei eingeschaltetem Testmonitor kurz drücken: Display wird ein/aus geschaltet • Taste lange gedrückt halten, um ein Reset durchzuführen. 	<ul style="list-style-type: none"> • <i>Press and hold for at least 2 seconds: Turn the test monitor on/off</i> • <i>When the monitor is switched on: Press shortly to turn the display on/off</i> • <i>Press and hold the button for some time to do a reset.</i>
2		Aufrufen des Menüs	<i>Calling-up the menu</i>
3		4x Zoom	<i>4x zoom</i>
4		Far Fokus	<i>Far focus</i>
5		Near Fokus	<i>Near focus</i>
6		Tele: Heran zoomen	<i>Tele: Zoom in</i>
7		Wide: Heraus zoomen	<i>Wide: Zoom out</i>
8		<ul style="list-style-type: none"> • Einstellung öffnen oder Blende vergrößern • Auswahl bestätigen 	<ul style="list-style-type: none"> • <i>Open parameter or enlarge the aperture</i> • <i>Confirm setting</i>

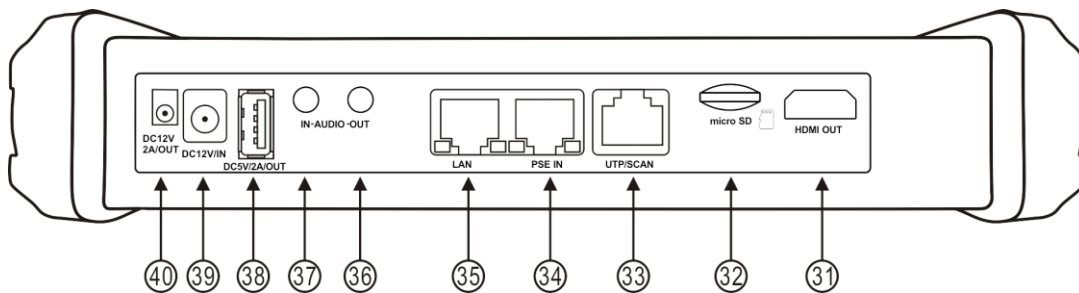
9		<ul style="list-style-type: none"> Zurück oder Abbrechen einer Menü-Einstellung Anwendung schließen oder Blende verkleinern 	<ul style="list-style-type: none"> <i>Return or cancel a menu setting</i> <i>Close parameter or decrease the aperture</i>
10		<ul style="list-style-type: none"> Im Menü: Hoch blättern oder Wert erhöhen Bei PTZ: Hoch schwenken 	<ul style="list-style-type: none"> <i>Menu mode: Move upwards in the menu or increase a value</i> <i>PTZ mode: Pan upwards</i>
13		<ul style="list-style-type: none"> Im Menü: Runter blättern oder Wert verringern Bei PTZ: Runter schwenken 	<ul style="list-style-type: none"> <i>Menu mode: Move downwards in the menu or decrease a value</i> <i>PTZ mode: Pan downwards</i>
12		<ul style="list-style-type: none"> Im Menü: Nach links blättern und Parameter auswählen, dessen Wert geändert werden soll. Bei PTZ: Nach links neigen 	<ul style="list-style-type: none"> <i>Menu mode: Move left to select the parameter whose value is to be changed.</i> <i>PTZ mode: Pan left</i>
11		<ul style="list-style-type: none"> Im Menü: Nach rechts blättern und Parameter auswählen, dessen Wert geändert werden soll. Bei PTZ: Nach rechts neigen 	<ul style="list-style-type: none"> <i>Menu mode: Move right to select the parameter whose value is to be changed</i> <i>PTZ mode: Pan right</i>
14		Bestätigung einer Auswahl/Einstellung	<i>Confirm a parameter/setting</i>
15		Zurück gedrückt halten schließt die geöffnete Applikation	<i>Return to previous menu Hold this button pressed will close the running application</i>
16		Platz für Namensschild	<i>Place for owner name</i>
17		Ladekontrollleuchte: <ul style="list-style-type: none"> Rot: Ladevorgang läuft Aus: Ladevorgang abgeschlossen 	<i>Charge indicator:</i> <ul style="list-style-type: none"> <i>Red: Battery is being charged</i> <i>Off: Charging is complete</i>
18		RS-485/RS-232 Leuchte: Leuchtet rot, wenn Daten übertragen werden.	<i>RS-485/RS-232 indicator: Lights red while data is being transmitted</i>
19		Datenempfangsleuchte: Leuchtet rot, wenn Daten empfangen werden	<i>Data received indicator: Lights red while data is being received.</i>
20		Betriebsspannungsleuchte: Leuchtet grün, wenn der Testmonitor eingeschaltet ist	<i>Power indicator: Lights green when the test monitor is powered.</i>
21		Anzeige	<i>Display</i>

Anschlüsse an der Geräteoberseite / Top interface:



22	12 V DC Betriebsspannung	12 V DC power output
23	HDMI Eingang max. 1080p	HDMI Input max. 1080p
24	Signal-Eingang (BNC)	Signal input (BNC)
25	Signal-Ausgang (BNC)	Signal output (BNC)
26	LED Lampe	LED flashlight
27	RS-485 Anschluss (für PTZ-Geräte)	RS-485 interface (for PTZ devices)

Anschlüsse an der Geräteunterseite / Bottom interface:



31	HDMI Ausgang	HDMI output
32	Micro-SD Kartenslot (max. 4 GB Karte)	Micro SD card slot (max. 4 GB card)
33	UTP/Scan für Zweidrahttest	UTP/Scan for two-wire test
34	PSE / PoE Test	PSE / PoE testing
35	PoE Ausgang / LAN Test	PoE output / LAN testing
36	Audio Ausgang / Kopfhörer	Audio output / earphone
37	Audio Eingang	Audio input
38	5V 2A Spannungsausgang	5V 2A power output
39	12V DC 2A Ladeschnittstelle	12V DC 2A charging interface
40	12V DC 2A Betriebsspannung	12V DC 2A power output

Weitere Informationen

Additional informations

Weitere Informationen, z.B. zur Bedienung, finden Sie auf unserer Homepage:

Further informations, e.g. Manual, you can find on our homepage:

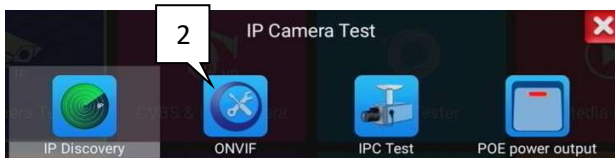


Anschluss einer IP-Kamera:

- Schalten Sie den Prüfmonitor ein.
- Schließen Sie die IP-Kamera an die Stromversorgung an (ggf. 12VDCout am Prüfmonitor verwenden)
- Verbinden Sie die IP-Kamera mit dem LAN Port des Prüfmonitors. Bei erfolgreicher Verbindung leuchtet die Kontrollleuchte grün.
- Falls die Kamera über den Prüfmonitor PoE betrieben werden soll, tippen Sie auf das „PoE power output“ Symbol auf dem Bildschirm.
- Öffnen Sie die ONVIF App in dem Sie
 - 1) IP Camera Test
 - 2) ONVIF

IP camera connection

- Switch the test monitor on.
- Power the IP camera with an independent power suppl. Or monitors 12VDCout port.
- Connect the IP camera with network cable to the test monitor. If the connection is successfully established, the indicator will light green.
- If the camera is powered by testmonitors PoE, touch the „PoE power output“ icon the monitor screen.
- Open the ONVIF App
 - 1) IP Camera test
 - 2) ONVIF



- 3) Geben Sie Ihre Account Daten ein.
Wählen Sie eine Kamera aus.
Das Kamerabild wird angezeigt.

- 3) Enter your account data
Select an camera
The camera image will be displayed.



Anschluss einer analogen Kamera:

- Schalten Sie den Prüfmonitor ein.
- Schließen Sie den Videoausgang der Kamera an den Videoeingang des Prüfmonitors an.
- Tippen Sie auf das „CVBS & HD Camera“ Symbol und wählen Sie dann die „CVBS“ App aus.
- Das Kamerabild wird angezeigt.
- Sie können optional auch zusätzlich einen Monitor an das Prüfgerät anschließen. Das Videobild wird dann auf beiden Bildschirmen angezeigt.
- Wenn Sie einen PTZ-Speed Dome anschließen wollen, verwenden Sie den RS-485 Anschluss.

Analogue camera connection:

- Switch the test monitor on.
- Connect the camera's video output to the test monitor's video input.
- Touch the „CVBS & HD Camera“ icon and start the „CVBS“ app.
- The camera image will be displayed.
- Optionally, you may connect an additional monitor to the test monitor. The video image will hence be displayed on both screens.
- If you wish to connect a PTZ speed dome, please use the RS-485 port.



Anschluss einer HD-AHD/CVI/TVI Kamera:

- Schalten Sie den Prüfmonitor ein.
- Schließen Sie den Videoausgang der Kamera an den Videoeingang des Prüfmonitors an (über Koax).
- Öffnen Sie das Menü „CVBS & HD Camera“ und starten Sie die entsprechende App (AHD/CVI/TVI)
- Sie können das OSD Menü der Kamera anschließend über den „Enter“ Button öffnen, und mit den blauen Menübuttons darin navigieren.
- Eine PTZ Steuerung kann über die blauen Menübuttons (Pfeiltasten) und die Zoombuttons (far/near) erfolgen. Ein Anschluss über RS485 ist nur notwendig, wenn die Kamera in den RS485 Modus geschaltet wurde.

HD-AHD/CVI/TVI camera connection:

- Switch the test monitor on.
- Connect the camera's video output to the test monitor's video input (via coax).
- Select “CVBS & HD Camera” and start the App which belongs to your video standard (AHD/CVI/TVI)
- You can enter camera OSD menu by pressing the “Enter” button, and control it with the blue arrow buttons.
- For PTZ you can control with the blue arrows and the far/near zoom buttons. An connection by RS485 may be needed, pending on cameras features.



HINWEIS

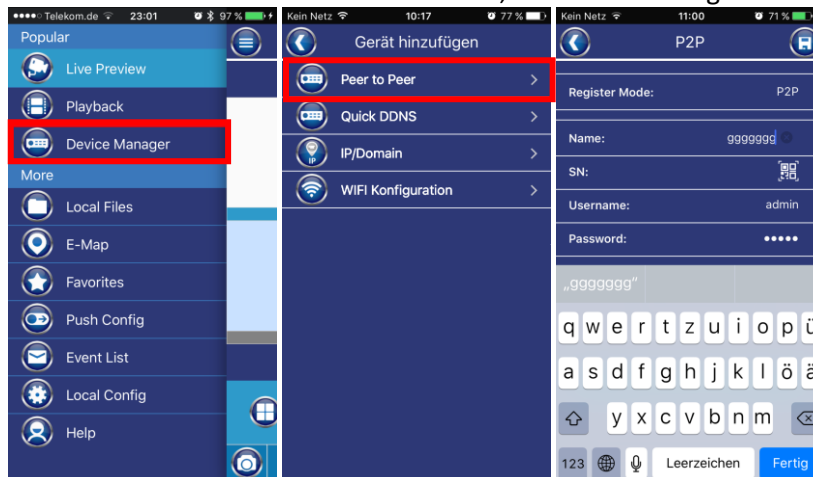
Zum Testen der SANTEC LAN und P2P fähigen Geräte können Sie die vorinstallierte BURG CAM HD App nutzen.

Sie finden diese im Verzeichnis: „My Apps“ -> BURG CAM HD

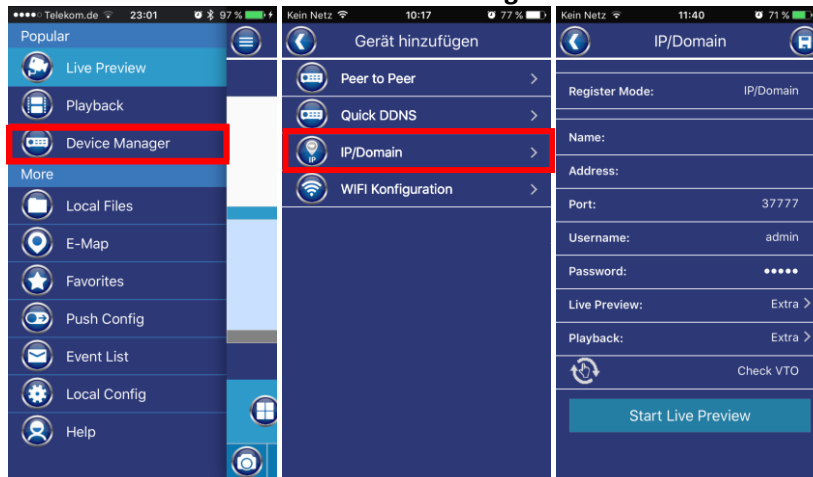
Bitte beachten Sie dass die App für WLAN Geräte optimiert wurde. Wenn Sie den Prüfmonitor im LAN verwenden wird beim Starten der App gemeldet dass kein Netzwerk gefunden wurde. Bitte tippen Sie auf „Cancel“ um die App im LAN-Modus zu betreiben.

P2P Gerät einfügen (Internetverbindung benötigt):

P2P muss in der Kamera aktiviert werden, Werkseinstellung: AUS.



Gerät aus dem lokalen Netzwerk hinzufügen:



Hinweis: Zum Beenden der App bitte auf „Return“-Taste drücken.

Durch gedrückt halten der Taste können Anwendungen gezielt geschlossen werden.

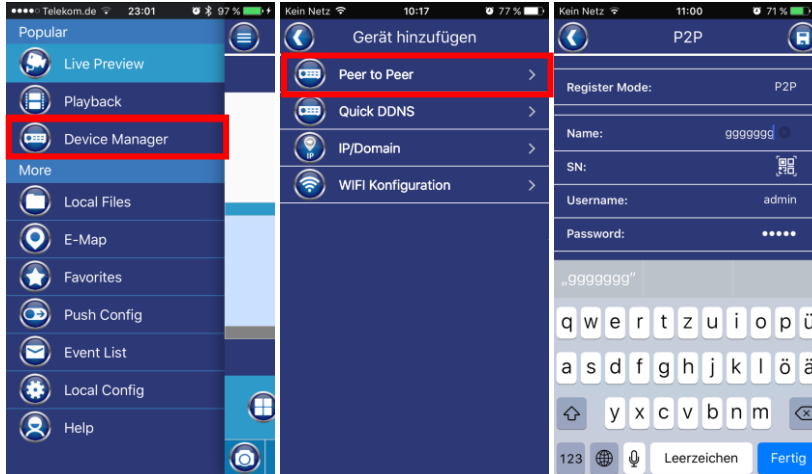
Note

For tests of SANTEC BW or BURG-WÄCHTER devices you can use the BURGCam HD App. You can find it in “My Apps” menu.

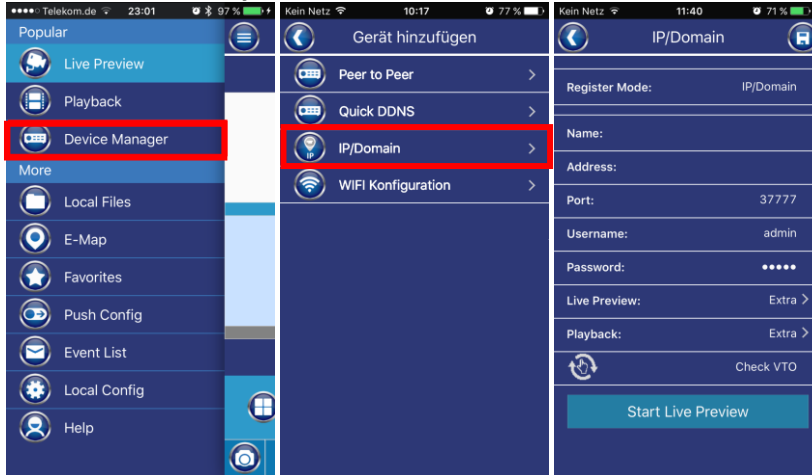
Please note that the App is developed for mobile applications. If you use the App in LAN mode, a Prompt will raise and tell you that there’s no network connection available. Press “Cancel” to run the app.

P2P device add (internet connection required):

Note: P2P has to be enabled in cameras settings.



Add local camera by IP



Note: To close the app press the „Return“ button.

If you keep on hold the „Return“ button, apps will be closed.



FAQ

Frage / Question	Antwort DE	Answer EN
App hat sich aufgehängt <i>App crashed</i>	Sie können die Anwendung durch gedrückt halten der „Return“-Taste beenden.	<i>Try to close App by hold the „Return“-Button.</i>
Der Prüfmonitor reagiert nicht mehr <i>Device do not respond</i>	Halten Sie den Ein/Aus Taster gedrückt und starten Sie das Gerät neu - „Reboot“ Wenn dies nicht funktioniert: - Trennen Sie die Stromverbindungen - Entfernen Sie die Batterie aus dem Gerät Warten Sie einige Minuten und setzen Sie die Batterie wieder ein. Anschließen das Gerät wieder mit dem Strom verbinden und neu starten.	<i>Keep the power-button hold and „reboot“ the device</i> <i>If it do not react:</i> - <i>Disconnect power</i> - <i>Remove the battery</i> <i>Wait for some minutes</i> <i>Connect battery to device again</i> <i>Connect power to device</i> <i>Start device again.</i>
IP Geräte werden nicht gefunden <i>IP device can't be found</i>	Prüfen Sie ob Sie sich im selben Netzwerk wie die Endgeräte befinden. Stellen Sie sicher, dass die IP des Prüfmonitors nicht schon anderweitig verwendet wird. Stellen Sie sicher, dass Sie sich mit dem richtigen Netzwerk verbunden haben (WLAN/LAN). Deaktivieren Sie nicht benötigte Verbindungen. Führen Sie einen IP Scan über den gewünschten Bereich durch. <i>Tools > Network Tool > IP SCAN</i>	<i>Check network connection to end device</i> <i>Ensure the testers IP is not used by other device already.</i> <i>Check Network connection and disable unused connection (LAN/ WIFI).</i> <i>Start IP scan in expected network IP range.</i> <i>Tools > Network Tool > IP SCAN</i>
Gerät lässt sich nicht einschalten <i>Device do not start up</i>	Verbinden Sie das Gerät mit dem Netzteil und prüfen Sie ob der Akku leer / defekt ist.	<i>Connect device to power adapter. Check accumulator for defects.</i>

Allgemeine Sicherheitshinweise

- Vor Inbetriebnahme des Gerätes sollte dieses Handbuch sorgfältig gelesen und als Nachschlagewerk verwahrt werden.
- Vor jeder Reinigung muss das Gerät ausgeschaltet und von der Betriebsspannung getrennt werden. Benutzen Sie für die Reinigung ein feuchtes Tuch. Benutzen Sie keine scharfen Reinigungsmittel oder Sprühdosen. Das Typenschild darf nicht ersetzt werden.
- Benutzen Sie keine Zusatzgeräte, die nicht vom Hersteller des Gerätes empfohlen wurden. Diese können die Funktionalität des Gerätes beeinflussen und schlimmstenfalls Verletzungen und einen elektrischen Schlag herbeiführen oder sogar Feuer auslösen.
- Betreiben Sie das Gerät niemals in der Nähe von Wasser oder anderen Flüssigkeiten.
- Das Gerät sollte an einem sicheren Ort und auf fester Unterlage gemäß den Angaben des Herstellers installiert werden. Schweres Gerät sollte mit großer Sorgfalt transportiert werden. Schnelle Halts, übermäßige Krafteinwirkungen und unebener Boden können die Ursache sein, dass das Gerät zu Boden fällt und schweren Schaden an Personen und anderen Objekten verursacht.
- Eventuell am Gerät befindliche Öffnungen dienen der Entlüftung und schützen das Gerät vor Überhitzung. Diese Öffnungen dürfen niemals zugedeckt oder zugestellt werden. Sorgen Sie dafür, dass das Gerät nicht überhitzt wird.
- Verwenden Sie nur die empfohlene Betriebsspannungsversorgung. Wenn Sie nicht sicher sind, ob die am Installationsort vorhandene Stromversorgung verwendet werden kann, fragen Sie Ihren Händler.
- Ein Gerät, das von einer polarisierten Stromversorgung versorgt wird, hat meistens als Sicherheitsvorkehrung einen Netzanschlusstecker mit unterschiedlichen Klinken, welche nur auf eine Art und Weise mit der Netzsteckdose verbunden werden können. Versuchen Sie niemals, diese Sicherheitsvorkehrung eines polarisierten Steckers außer Betrieb zu setzen.
- Wenn das Gerät eine Stromversorgung mit Erdungsanschluss erfordert, dann sollte es auch nur an eine entsprechende Netzsteckdose mit Erdungsanschluss angeschlossen werden. Steht eine solche Schukosteckdose nicht zur Verfügung, dann sollte sie von einem Elektriker installiert werden.
- Anschlusskabel sollten so verlegt werden, dass man nicht darauf treten kann oder dass sie durch herab fallende Gegenstände beschädigt werden können.
- Bei einem Gewitter oder bei längerer Nutzungspause sollte das Gerät immer von der Betriebsspannung getrennt werden. Lösen Sie auch andere Kabelverbindungen. Auf diese Weise schützen Sie das Gerät vor Blitzschäden oder Stromstößen.
- Setzen Sie Netzsteckdose und Netzkabel niemals einer Überbelastung aus. Feuer und elektrische Schläge können die Folge sein.
- Stecken Sie niemals Gegenstände durch die Öffnungen des Geräts. Sie können Spannungs- führende Teile berühren und einen elektrischen Schlag erhalten.
- Vergießen Sie auch niemals Flüssigkeiten über das Gerät.
- Bei Betriebsstörungen oder einem vollständigen Betriebsausfall schalten Sie das Gerät aus und trennen es von der Versorgungsspannung. Versuchen Sie niemals, selbst Wartungs- oder Reparaturarbeiten bei geöffnetem Gehäuse durchzuführen, da Sie sich gefährlichen Spannungen aussetzen. Überlassen Sie Wartungs- oder Reparaturarbeiten ausschließlich qualifizierten Fachwerkstätten.
- Als Ersatzteile dürfen nur Teile verwendet werden, die vom Hersteller zugelassen wurden oder solche, die identische Leistungsdaten aufweisen. Nicht genehmigte Ersatzteile können zu Schäden an Personen (elektrischer Schlag) und Gerät (Feuer) führen.
- Nach jeder Wartung oder Reparatur des Geräts muss das Gerät auf einwandfreien Betrieb überprüft werden.
- Die Installation des Geräts darf nur von qualifiziertem Personal ausgeführt werden und muss den örtlichen Spezifikationen und Vorschriften entsprechen.
- Richten Sie die Kamera nie auf ein Objekt mit hoher Leuchtkraft. Helle vertikale oder horizontale Linien können auf dem Bildschirm das gesamte Bild überstrahlen. Dieser Nachzieheffekt ist kein Fehler, sondern eine Eigenart der Halbleiter CCD's, wenn dieser einer starken Lichtquelle direkt ausgesetzt wird.
- Bei Einsatz dieser Kamera an Orten mit stark unterschiedlichen Lichtverhältnissen ist die Blendeneinstellung anzupassen.
- Bitte beachten Sie im Fall der Entsorgung unbrauchbarer Geräte die geltenden gesetzlichen Vorschriften.



Dieses Symbol bedeutet, dass elektrische und elektronische Geräte am Ende ihrer Nutzungsdauer vom Hausmüll getrennt entsorgt werden müssen. Bitte entsorgen Sie das Gerät bei Ihrer örtlichen kommunalen Sammelstelle.



Bei Kameras mit einem IR-Scheinwerfer:
Bewahren Sie stets einen Abstand von > 1m, um gesundheitlichen Schäden vorzubeugen.
Schauen Sie nie direkt in den IR-Scheinwerfer hinein, um Augenschäden zu vermeiden.

CE Richtlinien

Vorsicht: Änderungen und Modifizierungen, die nicht ausdrücklich durch die zuständige Genehmigungsbehörde genehmigt worden sind, können zum Entzug der Genehmigung zum Betreiben des Gerätes führen. Dieses Gerät entspricht den CE-Richtlinien.

General safety precautions and safety instructions

Safety instructions

- Before operating the appliance, please read this manual carefully and retain it for further reference.
- Before cleaning the appliance, it has to be switched off and unplugged from the power outlet. Wipe the appliance with a soft damp cloth.
Do not use harsh cleansers or aerosols for cleaning. The type label may not be replaced.
- Do not use attachments unless recommended by the manufacturer as they may affect the functionality of the appliance and result in the risk of fire, electric shock or injury.
- Never install the appliance in areas exposed to water or other liquids.
- The appliance has to be installed in a safe and stable location which is able to carry the weight of the appliance. Quick stops, excessive force, and uneven surfaces may cause the appliance to fall causing serious injury to persons and damage to objects.
- Openings in the appliance, if any, are provided for ventilation to ensure reliable operation of the appliance and to protect it from overheating. These openings must not be covered or blocked. Please make sure that the appliance does not overheat.
- The appliance should only be operated from the type of power source indicated on the marking label. If you are not sure of the type of power supplied at the installation location, please contact your local dealer.
- An appliance which is powered through a polarized plug (a plug with one blade wider than the other) will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug into the outlet, try reversing the plug. Do not defeat the safety purpose of the polarized plug.
- If the appliance is powered through a grounding-type plug, the plug will only fit into a grounding-type power outlet. This is a safety feature. If your outlet does not have the grounding plug receptacle, contact your local electrician.
- Route power cords and cables in a manner to protect them from damage by being walked on or pinched by items placed upon or against them.
- For protection of the appliance during a lightning storm or when it is left unattended and unused for a longer period, unplug the appliance from the wall outlet. Disconnect any antennas or cable systems that may be connected to the appliance. This will prevent damage to the appliance due to lightning or power-line surges.
- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- Never insert items into the openings of the appliance. They may touch parts under electric current which may cause an electric shock.
- Never pour any liquids over the appliance.
- In case of any operating interruption or a complete operating failure please switch off the appliance and disconnect it from the wall outlet. Never attempt to service or repair the appliance yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- When replacement parts are required, be sure that the service technician uses replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to verify that the appliance is in proper operating condition.
- The appliance must only be installed by qualified service personnel and has to comply with local specifications and regulations.
- Never point the camera at an object with a high degree of luminance. Bright vertical or horizontal lines can result in a distortion (outshine) of the entire image on the monitor. This artifact is not an error but a particularity of semiconductor CCDs when they are directly exposed to a powerful light source.
- At the installation site, the camera has to be adjusted to the given light conditions (see OSD).
- Please respect the local legal regulations on waste if you need to dispose of discarded appliances.



This symbol means that electrical appliances need to be disposed of properly and not simply with unsorted household refuse. Please respect local regulations on waste disposal.



For cameras equipped with IR LEDs:
Please make sure to always keep a distance of > 1m to avoid damages to your health. Never look directly into the IR-LEDs – this may cause eye damages!

CE compliance

Attention: Any changes or modifications to this appliance which have not been explicitly approved of by the respective regulatory authority, may lead to a prohibition of usage of this appliance. This appliance complies with the CE guidelines.



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Bitte richten Sie Ihre entsprechende Anfrage an:

SANTEC BW AG
An der Strusbek 31
22926 Ahrensburg
Deutschland

Tel: +49 4102 4798 0
Fax: +49 4102 4798 10
E-Mail: camera-service@burg.biz

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Please send your request to the following address:

SANTEC BW AG
An der Strusbek 31
22926 Ahrensburg
Germany

Phone: +49 4102 4798 0
Fax: +49 4102 4798 10
E-mail: camera-service@burg.biz

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