

**HD Pentabrid Digital Videorekorder
HD pentabrid digital video recorder**

**Modell / Model:
SPVR-31612**



Lieferumfang:

- 1x Rekorder SPVR-31612
- 1x Maus
- 1x CD (Konfigurations-Tool, Kurzanleitung)
- 1x Netzteil
- 1x Kurzanleitung und Sicherheitshinweise

Items included in the delivery:

- 1x Recorder SPVR-31612
- 1x Mouse
- 1x CD (configuration tool, quick installation guide)
- 1x Power adapter
- 1x Quick installation guide and security notes

Besondere Ausstattungsmerkmale

- Unterstützt AHD/CVI/TVI/Analog/IP 1080p
- Unterstützt 16+8 IP Kameras bis 5 MP
- Intelligente Video Analyse für
 - Stolperdraht
 - Zonenüberwachung
 - Objekt hinzugefügt/entfernt
 - Gesichtserkennung
- RS-485 für analoge PTZ Steuerung
- USB 3.0 für schnelleren Download

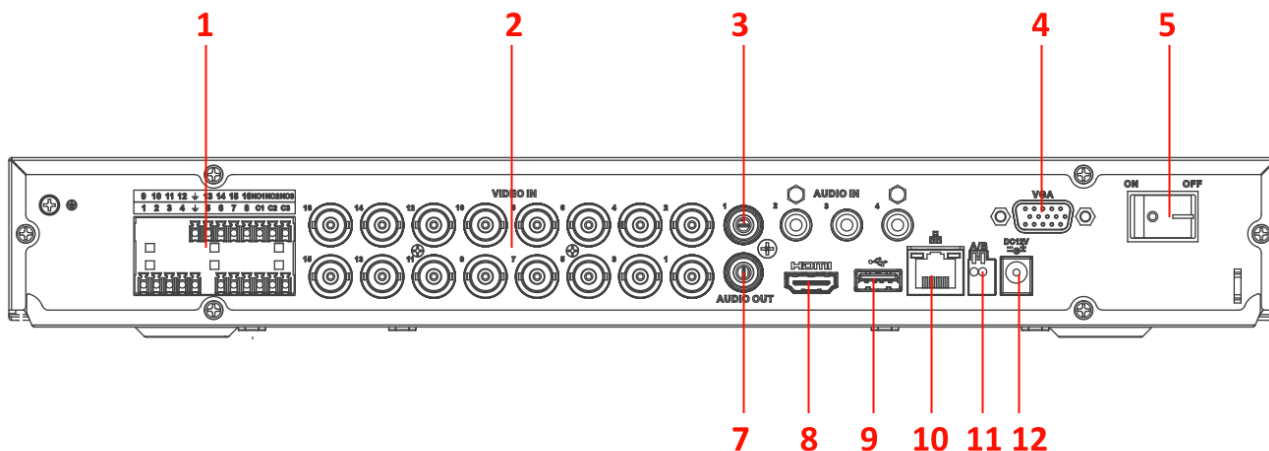
Special features:

- Supports AHD/CVI/TVI/Analogue/IP 1080p
- Supports 16+8 IP cameras up to 5 MP
- Intelligent Video Analytics
 - Tripwire
 - Intrusion
 - Abandoned/Missing
 - Face Detection
- RS-485 for analogue PTZ control
- USB 3.0 for fast download

Kontrollanzeigen auf Gerätevorderseite / Control indicators on front panel:

Anzeige / Indicator	Beschreibung	Description
HDD	Festplatte	HDD
NET	Netzwerkverbindung	Network connection
POWER	Betriebsspannung	Power

Anschlüsse auf Geräterückseite / Connectors on rear panel:



	Beschreibung / Description
1	Alarm Eingang / Ausgang <i>Alarm In / Out</i>
2	BNC Video-Eingang / <i>BNC video input</i>
3	Audio In (CH 1-4)
4	VGA Monitor-Ausgang / <i>VGA monitor output</i>
5	Ein/Aus Schalter / <i>Power on/off</i>
6	Audio In (CH 5-8)

	Beschreibung / Description
7	Audio Ausgang / <i>Audio Out</i>
8	HDMI Monitor-Ausgang / <i>HDMI monitor output</i>
9	USB Port
10	Netzwerkanschluss / <i>Network connection</i>
11	RS-485
12	12 V DC Betriebsspannung / <i>12 V DC power</i>

Inbetriebnahme:

- Schließen Sie die Maus, den Monitor, das Netzkabel und die Kamera(s) an den Rekorder an.
- Schließen Sie den Monitor und die Kamera an die Betriebsspannung an (Netzteile liegen der jeweiligen Geräteelieferung bei).
- Schließen Sie zum Schluss den Rekorder mit dem beiliegenden Netzteil an die Betriebsspannung an.
- Schalten Sie den Rekorder über den Ein/Aus Schalter auf der Geräterückseite ein.
- Die Power LED-Anzeige auf der Rekordervorderseite leuchtet.
- Das Live-Bild der Kamera(s) erscheint auf dem Monitor.
- Klicken Sie mit der linken Maustaste, um das Login-Fenster aufzurufen.

Login:

- Geben Sie Ihren Benutzernamen und Ihr Passwort ein. Ab Werk sind folgende Standard Login-Daten eingestellt:

Benutzername: admin
Passwort: 9999

Benutzername: user
Passwort: 123456

Wichtiger Hinweis:

Es wird empfohlen, den Benutzernamen und das Passwort zu ändern unter:
Einstellungen ► System ► Konto ► Benutzer

- Sie sind jetzt eingeloggt und können auf die verschiedenen Funktionen zugreifen.
- Mit einem Rechtsklick der Maus ins Live-Bild öffnen und schließen Sie das Schnellstart-Menü inkl. Zugriff aufs Hauptmenü.

Getting started:

- *Connect the mouse, the monitor, the network cable and the camera(s) with the recorder.*
- *Connect the monitor and the camera to power by using the power adapters supplied with these devices.*
- *Finally, connect the recorder to power by using the supplied power adapter.*
- *Switch on the recorder by using the on/off power button on the recorder backside.*
- *The Power LED indicator on the recorder front panel lights up.*
- *The live image of the camera(s) is displayed on the monitor.*
- *Left-click with the mouse to call-up the login window.*

Login:

- *Enter your user name and password. By default, the following user name and password are set:*

User name: admin
Password: 9999

User name: user
Password: 123456

Important note:

It is recommended to change the user name and password here:

Setting ► System ► Account ► User

- *You are now logged-in and you have access to the various functions.*
- *Right-click into the live image to call-up and close the quick start menu including the main menu.*



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Änderung der Menü-Sprache:

- Die Grundeinstellung der Sprache ab Werk ist Deutsch.
- Mit einem Rechtsklick ins Live-Bild öffnen Sie das Hauptmenü. Wählen Sie hier: Einstellung ► System ► Allgemein ► Sprache
- Hier können Sie zwischen Deutsch und Englisch als Menüsprache wählen.

Logout und Rekorder ausschalten:

- Mit einem Rechtsklick ins Live-Bild öffnen Sie das Hauptmenü. Wählen Sie hier: Vorgang ► Shutdown ► Shutdown
- Der Rekorder wird heruntergefahren, ist aber nach wie vor eingeschaltet (die LEDs leuchten noch).
- Schalten Sie den Rekorder über ein Ein/Aus Schalter aus.

Bitte beachten Sie:

Bitte beachten Sie auch das Beiblatt mit Sicherheitshinweisen und Vorsichtsmaßnahmen.

Changing the menu language:

- *By default, the menu language is set to German.*
- *Right-click into the live image to call-up the main menu. Select: Setting ► System ► General ► Language*
- *German and English are available menu languages.*

Logout and recorder switch-off:

- *Right-click into the live image to call-up the main menu. Select: Operation ► Shutdown ► Shutdown*
- *The recorder shuts down but is still switched on (the LEDs are still flashing).*
- *Switch off the recorder by using the on/off power button.*

Please note:

Please also read the supplemental sheet on safety precautions and safety instructions.



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Technische Daten / Technical specifications:

Modell / Model	SPVR-31612	
Typ / Type	16+8-Kanal HD Pentabrid Digital Videorekorder / 16+8-channel HD pentabrid digital video recorder	
Video Eingänge / Video inputs	16x BNC / 1x RJ45	
Unterstützte Standards / Supported standards	AHD/CVI/TVI 1080p, AHD/CVI/TVI 720p, analog 960H, IP ONVIF cameras	
Audio Eingänge/Ausgänge / Audio inputs/outputs	4 / 1 (Chinch), Gegensprechen / Two-way talk: CH1	
Alarm Eingänge/Ausgänge / Alarm inputs/outputs	16 / 3	
Anzahl interne HDD unterstützt / Number of internal HDD supported	2x SATA 3.5" bis / up to 2x 6 TB	
Betriebssystem / Operating system	Embedded Linux	
Monitor Ausgänge / Monitor outputs	1x HDMI, 1x VGA (optional Spot)	
Monitor Auflösung / Monitor resolution	1920x1080, 1280x1024, 1280x720, 1024x768, 800x600	
Bildschirmanzeige / Display split	1/4/8/9/16/25	
Privatzonen / Privacy zones	4 (für jede Kamera / for each camera)	
Einblendungen / Displays	Kameraname, Zeit, Videoverlust, Kamera gesperrt, Bewegungserkennung, Aufnahme / Camera title, time, video loss, camera lock, motion detection, recording	
Komprimierung / Compression	H.264, H.264+ (Video) / G.711 (Audio)	
Max. Aufnahme Bandbreite Max.recording bandwidth	96 Mbps	
Max. Aufnahme Auflösung / Max. recording resolution	Main-Stream	(5MP / 4MP / 3MP) nur IP / IP only / 1080p / 720p / 960H / D1
	Sub-Stream	D1 / CIF / QCIF
Decodierungskapazität (Anzeige) decoding performance (live View)	5MP / 4MP / 3MP (1-12/15fps) nur IP / IP only 1080p / 720p / 960H / D1 / CIF / QCIF (1-25/30fps)	
Bit Rate pro Kanal / per channel	96 - 6144 Kbps	
Aufnahme Modus / Recording mode	Manuell, Zeitplan (normal, zeitgesteuert), Bewegungserkennung, Stopp / Manual , schedule (regular, continuous), motion detection, stop	
Ethernet	RJ-45 Port (10/100/1000 Mbit)	
Max. Benutzeranzahl / Max. number of users	128	
Smartphone / Tablet	iPhone, iPad, Android	
USB Ports	1x USB 2.0, 1x USB 3.0	
Betriebsspannung / Voltage	DC12V/5A (Netzteil im Lieferumfang, Power supply incl.)	
Leistungsaufnahme / Power consumption	10 Watt (ohne Festplatte / without HDD)	
Betriebstemperatur / Operating temperature	-10° bis/to +55°C	
Abmessungen / Dimensions	375mmx285mmx55mm	
Gewicht / Weight	2,35 kg (ohne Festplatte / without HDD)	

Irrtum und Änderungen vorbehalten. / Subject to technical changes. Errors excepted.

Ausführliches Benutzerhandbuch:

Diese Kurzanleitung dient dazu, das Gerät einfach und unkompliziert in Betrieb zu nehmen. Ausführlichere Erklärungen und Beschreibungen der einzelnen Funktionen finden Sie im Benutzerhandbuch, das Sie auf unserer Webseite als pdf-Datei herunterladen können. Alternativ können Sie für einen schnellen Zugriff auf das Handbuch diesen QR-Code einlesen, um das Handbuch direkt auf Ihr Smartphone oder Tablet zu erhalten.

QR-Code für Bedienungsanleitung in Deutsch:



www.santec-video.com

Detailed user manual:

The purpose of this quick installation guide is to start the device in an easy and convenient way. More detailed explanations and descriptions of the various functions are available in the user manual which you can download as pdf file from our website. Alternatively, for quick access to the user manual, you can scan the below QR-code to view the user manual on your smartphone or tablet.

QR-code for user manual in English:



www.santec-video.com

„Burg Cam“ App für P2P Anwendungen:

Sie können das Gerät auch über die „Burg Cam“ App von Ihrem Smartphone oder Tablet aufrufen und steuern. Es stehen folgende Apps für Smartphones und für Tablets zur Verfügung, jeweils als kostenlose „Lite“ oder als kostenpflichtige „Pro“ Version:



„Burg Cam“ App for P2P applications:

Using the “Burg Cam” App, you can call-up and control the device by your smartphone or tablet. The following Apps are available for smartphone and tablets: the free-of-charge “Lite” version or the “Pro” version with costs.

App Name	Burg Cam (Lite)	Burg Cam Pro	Burg Cam HD (Lite)	Burg Cam HD Pro
Gerät / Device	Smartphone	Smartphone	Tablet	Tablet
Funktionen / Functions	<p>Grundfunktionen, z.B. Bildeinstellungen, Schnappschüsse, lokale Aufnahme</p> <p><i>Basic functions, e.g. image adjustment, snapshots, local recording</i></p>	<p>Erweiterte Funktionen, z.B. Alarmeinstellungen, Streamqualität, Push Nachrichten</p> <p><i>Advanced functions, e.g. image adjustment, stream quality, push notification</i></p>	<p>Grundfunktionen, z.B. Bildeinstellungen, Schnappschüsse, lokale Aufnahme</p> <p><i>Basic functions, e.g. image adjustment, snapshots, local recording</i></p>	<p>Erweiterte Funktionen, z.B.: Alarmeinstellungen, Streamqualität, Push Nachrichten</p> <p><i>Advanced functions, e.g. image adjustment, stream quality, push notification</i></p>
Kosten / Costs	Kostenlos / Free-of-charge	Kostenpflichtig / With costs	Kostenlos / Free-of-charge	Kostenpflichtig / With costs
System	iOS, Android	iOS, Android	iOS, Android	iOS, Android

Sie können diese Apps im jeweiligen Store herunterladen.

You can download these Apps in the respective stores.

Online Fernzugriff

Sie haben die Möglichkeit auf Ihre Kameras und Rekorder von Unterwegs über einen PC oder Laptop, mit einem aktuellen Windows Betriebssystem, ohne DDNS zuzugreifen. Führen Sie hierzu die folgenden Schritte durch:

- 1) Aktivieren Sie die P2P Funktion ihres Gerätes und verbinden Sie es mit dem Internet. Der P2P Status zeigt „online“ wenn das Gerät sich erfolgreich mit dem Server verbunden hat.
- 2) Erstellen Sie ein kostenloses Verwaltungskonto unter www.cloud1.burg.biz und fügen Sie ihre Kameras durch Eingabe der Seriennummer, Benutzername, Passwort ihrem Account hinzu.
- 3) Sie können nun über ihr Verwaltungskonto auf die eingerichteten Geräte zugreifen

Online remote control

You can control your cameras and recorder by PC or notebook with actual Windows OS, without DDNS when you are connected to the internet. Therefor do the following steps:

- 1) *Enable the P2P function of your device and connect it to the internet. The P2P state becomes “online” when device has successfully connected to server.*
- 2) *Register a free account at www.cloud1.burg.biz and add your cameras and recorders to your account by entering serial number, username, and password.*
- 3) *Now you can enter your account and control your devices.*

Live



Wiedergabe / Playback



Um diesen Service nutzen zu können müssen Sie die Nutzungsbedingungen akzeptieren.

<http://cloud1.burg.biz> ► „Jetzt registrieren“ ► „Service Bestimmungen“

To use this service you have to accept the Terms of Service at:

<http://cloud1.burg.biz> ► „Sign Up Now“ ► „Terms of Service“

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 Schuko-Steckdose 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 $> 1\text{m}$, 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 places 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 replacements 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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www.santec-video.com/Download/GNU_GPL/GNU_GPL_V2.pdf

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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

We can't give support or guarantee for squeaky-cleanness of source codes. The source codes are only a part of whole software.



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Version 2, June 1991

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