



Panorama IP camera 1.3 MP

> Model SNC-P3601M





Dear customer,

Thank you for purchasing a high quality SANTEC device.

We recommend that you read this manual thoroughly before operating your new system for the first time. Please follow all instructions and observe the warnings contained in this manual.

Please contact your local dealer or use the SANTEC Service Hotline if you have any questions or if you wish to claim for a service or warranty.

You will find further information on our website: <u>www.santec-video.com</u>

SANTEC Service Hotline:

+49 / 900 / 1 72 68 32 +49 / 900 / 1 SANTEC (if available from your country)

support@santec-video.com

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Safety precautions

Caution



Description of symbols



Danger: This symbol is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to a person.



Warning: This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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.



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 camera housing complies with class IP-54.
- 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 if 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 groundingtype 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 should 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.
- 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.

About this user manual

This manual aims at assisting the user on how to operate camera SNC-P3601M.

This manual is subject to rigid quality control. However, no guarantee can be given that mistakes are not present. We reserve the right to make changes to the manual without prior notice. Before operating the appliance, please read this manual carefully and retain it for further reference. Verify that all appliance items are included in the delivery. Should items be missing, do not operate the appliance and contact your local dealer.

Never attempt to repair the appliance yourself. This should only be done by qualified service personnel.

Improper handling of the appliance will invalidate the warranty.

Items included in the delivery

1x camera SNC-P3601M 1x allen wrench 1x torx key 4x screws 1x IP-finder software 1x user manual 4x rubber gaskets

To operate the camera, SanGuard or NUUO software is required which you can purchase from SANTEC.



1. Installation

(also see the pictures on the following pages)

Camera SNC-P3601M is a colour camera with electronic day/night switching and a preinstalled 360° lens. You will find the technical data at the end of the manual.

1.1 Lens

This camera is equipped with a pre-installed and pre-set 360° lens. When operating the camera, you may need to re-adjust the lens because during the transport the lens might have experienced some vibrations.

Step1: Unwrap the camera.

Step 2: Connect the camera to the power supply and connect it to the network.

Step 3: Open the cameras's web interface in the Internet Explorer.

Step 4: Call up the live.

Step 5: Check if the oval position is centered and straight.

Step 6: Check if the focus adjustment is set properly.

Step 7: If required, adjust the lens. To access the lens, open the camera housing and following the below procedure. Use the allen wrench included in the delivery.

(Continue on next page)



Ensure that the main screw and the focus screw are loose. They have to be loose but don't need to be taken out completely.	
Turn the focus ring left or right until the picture is sharp and clear.	
Turn the master ring left or right to obtain a straight position of the elliptical picture.	
Turn the adjustment screw left or right to obtain a vertical position of the elliptical picture. The elliptical picture has to be in a centered position.	
Turn the adjustment screw left or right to obtain a horizontal position of the elliptical picture. The elliptical picture has to be in a centered position.	
Fix the screws again tightly.	



1.2. Camera installation

Make sure to fix the camera onto a solid basis which is capable to carry the weight of the camera. Ensure that the camera is safely installed by using only suitable screws. If the included screws are not suitable, please replace them by other appropriate screws.

1.3. Power supply

The camera can be operated with 12 V DC via the external power supply unit or with PoE (Power-over-Ethernet) via a PoE switch (Ethernet port).

1.4. Camera overview

Picture 1: Open the camera housing



Screws to open the camera housing



Picture 2: Reset button



Picture 3: Lens adjustment



Screws to adjust the position of the elliptical picture



Picture 4: Dimensions (mm)



Picture 5: Surface mounting



Screws for surface mounting



Picture 6: Connections





2. IP settings

The SANTEC IP cameras come with the following default settings:

IP-address		:	192.168.1.168
Subnet mask	:		255.255.255.0
Gateway		:	0.0.0.0
DNS-server		:	0.0.0.0
User ID		:	admin
Password		:	9999

To retain the default settings, press the reset button.

There are the following 3 options to change the IP-address of the camera:

a. IP-finder software

Every SANTEC IP camera comes with the IP-finder software.

IP Utility							Х
IP Address	MAC Address	Gateway	Subnet Mask	Bootproto	ID I	WebPort	~
192, 168, 10, 234	001E440017EE	192, 168, 10, 218	255, 255, 255, 0	static	admin	80	
192, 168, 10, 236	001E440013A9	192, 168, 10, 218	255, 255, 255, 0	static	admin	80	-
192,168,10,233	001E440017E6	192,168,10,218	255, 255, 255, 0	static	admin	80	=
192, 168, 10, 230	001E44001785	192, 168, 10, 218	255, 255, 255, 0	static	admin	80	
192,100,10,230	001E445515AD	192,100,10,210	255, 255, 255, 0	etatic	admin	80	_
192 168 10 231	001E440013AC	192 168 10 218	255,255,255,0	etatic	admin	80	
192 168 10 232	001E440017B6	192 168 10 218	255 255 255 0	static	admin	80	
192, 168, 10, 249	001E440017B7	0.0.0	255, 255, 255, 0	static	admin	80	
192 168 10 241	001E44001795	0,0,0,0	255 255 255 0	static	admin	80	T
∢ [
🌖 Dynamic IP	Static IF)					
IP Address	192 , 168 , 1	10 , 234	Mac	: Address	001E	440017EE	
Default GateWay	192 , 168 , 1	10 . 218	ID		а	dmin	
SubNet Mask	255 , 255 , 2	255 , 0	Pas	sword	****		
IP Find	List Clea	ar IP	Change	Ping		Web Config	

- Select the camera from the list by double-clicking.
- Change the IP settings to the new settings.
- Enter the user name (ID) and the password.
- Click on IP Change.

b. Camera web interface

You will find the description of the web interface in the following chapter.



3. Web interface

3.1. Calling-up the camera web interface

Open the Microsoft Internet Explorer and start the connection of the network camera as follows:

- Click on the URL field.
- Type in the URL address of the network camera and press the ENTER key. You will then access the web interface of the camera.
 The default ID address of the camera is 102 169 1 169.

The default IP-address of the camera is 192.168.1.168

You need the user ID and the password in order to access the web interface.

CANTER	9	JIOP
JANTEC		al at
ID		Login
		Login

The default user ID is *admin* and the default password is *9999*.

Note:

When you call up the camera web interface, it may happen that you are prompted for an ActiveX installation. Please note that the Internet Browser settings allow the installation of ActiveX components.

IP Surveilance - Windows Internet Explorer	100		-	4	- 0
Com / http://80.149.80.150.90/camview.htm	100				🕶 🔯 😽 🗙 🖁 🚼 Google
🚖 Favoriten 🏻 🍰					
IP Surveilance					🙀 🔹 🖾 👻 🖼 🗰 🔹 Seite 🕶 Sicherheit 🔹 Extras 🔹 (
Diese Website möchte das folgende Add-On installieren: "Net	CamViewer.cab* von '	SANYO VIDEO Vertriel	o AG*. Klicken Sie hier,	wenn Sie der Website	vertrauen und die Installation zulassen möchten
				Adm	ninistrator-Seite
14.					
			SNC-390DN/W		
Kicken Se bier um das feine	vda Artiva V. Stavaralama	ert nuinstalianan "NatCa	m\lawar.cab" unn "SAN	IVD VIDEO Vertrah AG*	MPEG4-1(720x576) •
Pacificani Sec Later Salar Parger	No PLAYON SALABITA				
					TAT
					s
					000



3.2. Live view



ADMINISTRATOR'S PAGE	Page for camera adjustments
LIVE VIEW	Page for Live-View
	Live-View with 50% resolution
	Live-View with defined resolution
4	Digital output (relay) on
Ø	Digital output (relay) off
102	Audio on (camera -> web interface)
unit with a second seco	Audio off (camera -> web interface)
3.5	Audio on (web interface -> camera)
3.5	Audio off (web interface -> camera)
	Storage location for snapshots and video sequences
	Save snapshot
REC	Start recording (the video sequence is saved as AVI-file)
STOP	Stop recording



Notes:

- In order to save a snapshot or a video sequence, select the storage location by using the Sutton.
- During live mode of the web interface, digital PTZ control is not possible. Please use the SanGuard or NUUO software which you can purchase from SANTEC.



3.3. Setting overview

	ADMINISTRATOR'S PAGE
Main Menu	Data and Time Setting.
Basic Setting	Data and Time Setting
📥 System	
Date and Time	
Timestamp	The Local Time Daylight Saving Time Is Acitve.
- Language Setting	Date: (+) 2010/06/02 Time: 09:12:46
RS485 Setting	The Desired Time
- PTZ Setting	The Desired Time
- Device Name	Set Manually
Update Firmware	Date: 2010 - / 06 - / 02 - (YYYY/MM/DD)
品 Network	Time: 09 - : 09 - : 06 - (HH:MM:SS)
SNTD Setting	Synchronize with Computer Time
FTP Setting	Data: (1) 2010/05/02 Time: 00:00:55
- SMTP Setting	Date. (+) 2010/00/02 1111e. 05:00:50
- DDNS Setting	Synchronize with SNTP Server
Event Log	SNTP Server: 0.pool.ntp.org
🗆 🥅 Video	Automatically Adjust for Daylight Saving Time Changes.
Camera Setting	Time Zone: GMT+01 Amsterdam,Berlin,Rome -
Audio	
- Audio Setting	
Advanced Setting	Submit
😑 🧰 Motion Detection	
Motion Detection	
🗄 🧰 Alarm	
Alarm Setting	
😑 🧰 SD Card	
- SD Card Setting	
SD Card FileList	
Record Setting	
Schedule Record	



3.4. System settings

3.4.1. Time / date

Time Zone	ing ringust	MT+01 Ar	nctordam B	orlin Romo		
Automatica	ally Adjust	for Davligh	t Saving Ti	ne Changes	83 - C	
SNTP Serve	r: 0.pool.nt	p.org				
Synchronize	e with SNTF	Server				
Date: 2010	/05/10	Time:	09:12:41			
Synchronize	e with Com	puter Time				
Time: 09	· : 13 ·	: 28 - (HH:MM:SS)			
				,00)		
Date: 2010	0 - / 05	▼ / 10 ▼	(YYYY/MN	(חח/		
Set Manual	/					
The Desired T	ime					
Date: 2000	/01/01	Time:	01:17:54			
he Local Tim	ie			-510		

Submit

- Local time: The local time is the one as set in the camera.
- **Desired time:** You can change the time which is set in the camera as follows:
 - Set manually: Select the desired time and date from the drop-down list.
 - **Synchronize with computer time**: If you select this option, the computer time/date is transferred to the camera.
 - **Synchronize with SNTP server:** If you select this option, the SNTP server time/date is transferred to the camera.
- Automatically adjust for daylight saving time changes: This option activates the automatic adjustment to summer/winter time.
- **Time zone**: This is the time zone in which the camera is located. This option is important for daylight saving time changes.
- Submit: Click here to apply the new date/time settings to the network camera.



3.4.2. Time stamp

Timestamp Location:	BOTTOM RIGHT -	
Timestamp Format:	DD/MM/YYYY TITLE	•

Submit

• Enable time stamp: The time stamp is displayed.

• Time stamp position:

- UPPER LEFT
- UPPER RIGHT
- BOTTOM LEFT
- BOTTOM RIGHT

• Time stamp format:

- o YY/MM/DD
- o MM/DD/YY
- o DD/MM/YY
- YY/MM/DD TITLE
 (YY = year, DD = day, MM = month)
- **Submit:** Click here to apply the new time stamp settings to the network camera.

3.4.3. User

root:Operator guest:Viewer	Delete User
Add/Modify User User Name:	
Add/Modify User User Name: Password:	
Add/Modify User User Name: Password: Confirm:	



- **User list:** This list displays the user(s) and their respective authorisations.
- Delete user: Select a user from the list to be deleted and click this button.
- User name: Enter the user name here which is to be added or modified.
- **Password:** Password of the above user name.
- **Confirm:** Re-enter and thus confirm the password here.
- Authority: Authorisation level: admin, operator or viewer.
- **Submit:** Click here to apply the new user settings to the network camera.

4.4.4. Language

	Language:	English 👻	
		Submit	
• Lang o E o G	uage: Select your lar nglish erman	iguage	
• Subr	nit: Click here to appl	y the new language settings to the netw	vork camera
4.4.5. C	amera name		

Device-Namen: SNC-P3601M Bestätigen

- **Camera name:** Enter the name/title of the camera.
- **Submit:** Click here to apply the new camera name to the network camera.



3.4.6. Update firmware

ActiveX Version	1019
Activest version.	1,0,1,9
	Durchsuchen and click update
Note Do not move and device, during the upo	other page and disconnect the power of the date. Update will take approximately 1 minute.
Note Do not move and device, during the upo	other page and disconnect the power of the date. Update will take approximately 1 minute. Restart

This page displays information on the installed firmware version and the ActiveX components.

- Search: Select the firmware file from your PC.
- **Update:** Start the update process.
- **Restart:** Restart the camera.



3.5 Network

3.5.1 IP-address

Enable DH	ICP						
IP Address:	192		168		1		168
Netmask:	255	•	255		255		0
Gateway:	0	•	0		0		0
1's DNS:	0		0	4	0	Q.	0
2's DNS:	0		0	4	0		0
HTTP Port:	80		1				

Submit

- **IP-address:** Enter the 4-Byte IP-address (value from 0 to 255). Every network camera has to have its own IP-address which can be identified in the network.
- **Netmask:** Enter the 4-Byte subnet-mask (value from 0 to 255). By this, the netmask can be identified in which the network camera is located.
- **Gateway:** Enter the 4-Byte gateway (value from 0 to 255).
- **First DNS:** Enter the 4-Byte DNS-server address (value from 0 to 255). The DNS-server transforms the domain name into an IP-address.
- **Second DNS:** Enter the 4-Byte DNS-server address (value from 0 to 255). The DNS-server transforms the domain name into an IP-address.
- HTTP port: Displays the specific HTTP port number. Default is 80.
- **Submit:** Click here to apply the new network settings to the network camera.



3.5.2. SNTP (time server for time synchronisation)

SNTP Server:	0.pool.ntp.org	
	Cubmit	

- **SNTP server:** IP-address of the SNTP server. Can be entered as 4-Byte IP-address or as domain name.
- **Submit:** Click here to apply the new network settings to the network camera.

3.5.3 FTP

FTP Server:	192.168.1.2	Port:	21
User Name:			
Password:			
File Upload Path:	default_folder		

- **FTP server:** IP-address of the FTP server. Can be entered as 4-Byte IP-address or as domain name.
- **Port:** Port number of the FTP server.
- User name: User name to login to the FTP server.
- **Password:** Password to login to the FTP server.
- File upload path: Folder path of FTP server in which the video data is to be stored.
- **Submit:** Click here to apply the new network settings to the network camera.



3.5.4. SMTP

My Server Requir	es Authentication	
Account Name:		
Password:		
Sender:		
SMTP Server:	192.168.1.1	
Email Address:		
Storage Setting		
Send Count:	4 -	
	Submit	

If necessary, enable the option "My server requires authentication".

- Account name: Account on e-mail server.
- **Password:** Password of account on e-mail server.
- **Sender:** This information is displayed as e-mail sender.
- **SMTP server:** IP-address of SMTP server. Can be entered as 4-Byte IP-address or as domain name.
- E-mail address: E-Mail address to which the e-mails are to be sent.
- Send count (1-8): Number of files attached to an e-mail.
- **Submit:** Click here to apply the new network settings to the network camera.



3.5.5. DDNS (dynamic domain name system)

Enable DDNS Function:

DDNS Host Name:	test.dyndns.org	
DDNS Account:	test	
DDNS Password:	0000	

Submit

- **DDNS host name:** IP-address of DDNS server. Can be entered as 4-Byte IP-address or as domain name.
- **DDNS account:** Account on DDNS server.
- **DDNS password:** Password of account on e-mail server.
- **Submit:** Click here to apply the new network settings to the network camera.

3.5.6. Event protocol

Item	Date and Time	Event	5	
1.	2000-01-01 01:1	0:06 login o	n ::ffff:192.168	.1.169
	First Page	Previous 20	Next 20	Remove

On this page, the events are displayed. You can browse in the events by clicking on the buttons "first page", previous 20" and "next 20".



3.6 Video settings

3.6.1 Encoding

Stream Type	Single 🔻
Video Codec	Single MPEG4 👻
Resolution	MPEG4:720(1280x720) -
50Hz or 60Hz	© 60Hz 🖲 50Hz
Rate Control	CVBR -
JPEG Setting	
Quality	high 👻
Frame Rate	N/A 👻
(1)MPEG4 Setting	
Bit rate	4000
Frame Rate	25fps 👻
(2)MPEG4 Setting	
Bit rate	1000
Frame Rate	N/A -

Submit

• Stream type: Adjustment of video streaming mode

- o Single
- o Dual
- o Triple
- Video codec: Adjustment of encoding procedure
 - Stream type: single:
 - H.264
 - MPEG4
 - o Stream type: dual
 - H.264 + JPEG
 - MPEG4 + JPEG
 - Dual H.264
 - Dual MPEG4
 - H.264 + MPEG4
 - Stream-Typ: triple
- Resolution: The resolution of each video stream depends on the adjustments of the stream type and the video codecs. The following values can be set:



Stream type	Video codec	Resolution
		• 1280x1024
		• 1280x960
	H.264	• 1280x720
		• 720x480
Single		• 640x480
Single		• 1280x1024
		• 1280x960
	MPEG4	• 1280x720
		• 720x480
		• 640x480
		 1280x720 + 640x352
	11.204 + JF LO	• 640x480 + 640x480
		 1280x720 + 640x352
	MFEG4 + JFEG	• 640x480 + 640x480
		 1280x720 + 390x192
Dual	Dual H.264	 720x480 + 720x480
Duai		• 640x480 + 640x480
		 1280x720 + 390x192
	Dual MPEG4	 720x480 + 720x480
		• 640x480 + 640x480
		 720x480 + 720x480
	11.204 + IVIF L04	• 640x480 + 640x480
Triplo	Dual H.264 + JPEG	• 1280x720 + 320x192 + 640x352
The	Dual MPEG4 + JPEG	• 1280x720 + 320x192 + 640x352

- Bit rate: Bit rate mode
 - o CBR: Constant bit rate
 - CVBR: Variable bit rate
- JPEG adjustment
 - Quality: HIGH / NORMAL / LOW
 - Frame rate: 30 / 15 / 7.5 / 3 / 1 fps
- (1) H.264 / MPEG4 adjustment
 - Bit rate: 64 ~ 4000 Kbit/sec
 - Frame rate: 30 / 25 / 15 / 13 / 7.5 / 6 fps
- (2) H.264 / MPEG4 adjustment
 - Bit rate: 64 ~ 4000 Kbit/sec
 - $\circ~$ Frame rate: 30 / 25 / 15 / 13 / 7.5 / 6 fps
- **Submit:** Click here to save the new encoding settings.

Note:

Although the camera provides a number of video modes, single H.264/MPEG4 mode with 1280 x 1024 resolution has always to be set in order to enable a digital PTZ contol using SanGuard or NUUO software.



3.6.2 Camera settings



Sens UP	OFF -
Day and Night	Auto 👻
White Balance	AUTO 👻
WDR	ON OFF OFF OFF OFF OFF OFF O
WDR Level	< 5 >
DC IRIS	< 110 > (1~250) Submit
Brightness	< 128 ≥ (0~255)
Contrast	< 128 > (0~255)
Saturation	< 128 > (0~255)
Sharpness	< 128 ≥ (0~255)
Noise Reduction	< 128 > (0~255)

default Submit

On this page, you can change the following picture settings:

- Sens up: OFF / ON
- Day and night: AUTO / B/W / COLOR
- White balance: AUTO / SUNNY / SHADOW / INDOOR / LAMP
- WDR: ON / OFF
- WDR Level: 1 ~ 10
- DC IRIS: 0 ~ 200
- Lens type: DC-IRIS / MANUAL
- Brightness: 0 ~ 255
- Contrast: 0 ~ 255
- Saturation: 0 ~ 255
- Sharpness: 0 ~ 255
- Noise Reduction: 0 ~ 255
- **Reset**: The picture settings are reset (as shown on the above screen shot).
- **Submit:** Click here to save the new picture settings.



3.7. Audio settings

Audio:	OFF	~
Audio Out Volume:	2	(From 1[min] ~ 4[max])
		Submit

- Audio: Set the audio mode to:
 - \circ $\;$ OFF: audio is turned off $\;$
 - o one-way: audio only from camera to PC
 - two-way: audio in both directions
- Audio out volume: 0 4
- **Submit:** Click here to save the new audio settings.



3.8. Extended settings

3.8.1. Motion detection



- Motion detection: Activation/deactivation of motion detection
- Sensitivity: Set the sensitivity level of the motion detection
 - Lowest
 - o Low
 - \circ Medium
 - o High
 - o Highest
- CCD reference: CCD reference (20 50)
- **Motion detection mask:** Click on the picture to set or to delete an element of the motion detection mask. If a motion occurs in the marked field, it will be detected.
- **Submit:** Click here to save the new motion detection settings.



3.8.2. Alarm settings

Alarm In(Sensor):	ON C	OFF	Active Type:	Low	v
Alarm Out(Relay) :	ON C	OFF	Active Type:	Low	. *
			and the later		
- Trigger an Alarm	when Ethe	ernet I	s Lost		

- Alarm in (sensor): Activate/deactivate the alarm input
 - Active type "low": This means 0 V. The camera will trigger an alarm if the alarm input has 0 V. To achieve 0 V at the alarm input, the contacts are closed.

Submit

- Active type "high": This means 3.3 V. The camera will trigger an alarm if the alarm input has 3.3 V. To achieve 3.3 V at the alarm input, the contacts are not closed.
- Alarm out (relay): Activate/deactivate the alarm output
 - Active type "low": This means 0 V. If the camera triggers an alarm, the alarm output has 0 V.
 - Active type "high": This means 3.3 V. If the camera triggers an alarm, the alarm output has 3.3 V.
 - 0
- **Trigger an alarm when Ethernet is lost:** The camera can trigger an alarm if the network connection is interrupted.
- Alarm relay duration: You can set how long the alarm output should be active since the alarm is not being triggered anymore.
 - 0 second: The alarm output is set to inactivity immediately after the alarm.
 - 10 seconds: The alarm output is set to inactivity 10 seconds after the alarm.
 - 30 seconds: The alarm output is set to inactivity 30 seconds after the alarm.
 - 1 minute: The alarm output is set to inactivity 1 minute after the alarm.
 - Endless: The alarm output remains active until the alarm output is manually set to

inactivity (press button

on the "live view" page of the web interface).

• Submit: Click here to save the new alarm settings.



3.8.3. SD-card

3.8.3.1 SD-card settings

SD Card Enable :	ON ◎ OFF	Submit
SD Card Rewrite :	ON OFF	Submit (only Alarm Record Support)



- **SD-card enable:** Activate/deactivate the SD-card.
- **SD-card rewrite:** Activate/deactivate the rewriting of the SD-card.
- Format: The SD-card is being formatted.
- **Submit:** Click here to save the new SD-card settings.

3.8.3.2 SD-card content

Filelist of SD Card

Filename	Date	Time	Size				
20100416.jpg	2010/04/16 15	5:24:22 39K	Delete				
1 file and 393	8176 KBytes fr	ree					

- This page displays the content of the SD-card.
- Click on the respective file name to open it.
- Click on "Delete" to delete the file.



3.8.4. Recording

3.8.4.1 Recording settings

Schedule Record - Upload Via FTP	
Schedule Record - Save Into SD Card	1.
Alarm Record - Upload Via FTP	
Alarm Record - Save Into SD Card	
Alarm Record - Upload Via SMTP(jpeg	j only)
PreAlarm	
Buffer: 0 - Second(s)	
SD File Format: AVI -	
FTP File Format: AVI -	
	Submit

- On this page you can set the recording modes:
 - Schedule record upload via FTP
 - Schedule record save into SD-card
 - Alarm record upload via FTP
 - Alarm record save into SD-card
 - Alarm record upload via SMTP (e-mail sending)

• Additional setting options:

- Buffer: Pre-alarm buffer can be set to: 0 / 1 / 2 / 3 seconds.
- SD file format can be set to: AVI / JPEG
- FTP file format: only JPEG
- **Submit:** Click here to save the new recording settings.



3.8.4.2 Recording schedules

1	M	ono	lay			F	rom	0	00	•	:	00	-	То	09	-		00	D .	•				
1	M	ond	lay		•	F	rom	1	5	•	:	00	•	То	21	•		00	D .	•				
1	Tu	ieso	day	ŝ	-	F	rom	0	00	•	:	00	•	То	23	-	:	59	9 .	•				
	M	ond	lay	ŝ	34	F	rom	0	00	Ŧ	:	00	Ŧ	То	00	-	1:	00	0	-				
	M	ond	lay	Î.	i.	F	rom	0)0	*	:	00	+	To	00	-]:	00	0					
	M	ond	lay	ŝ	34	F	rom	0	00	Ŧ	:	00	Ŧ	То	00	-	1:	00	0					
1	M	ono	lay	1		F	rom	0	0	*	:	00	*	То	00	1	1:	00	0					
	0	1	2	3	4	5	6	7	8	9	1	01	112	213	141	15	16	17	18	19	20	21	22	23
SUN													T											
MON			00	:00	-1	19:	00									1	5:0	0.	2	1:0	D			
TUE											00	1:00	- 2	1:5)									
WED																								
THU			2			1		9					1						2					
	_	_	S								T													
FRI																								

- You can set up to 7 schedules in the camera.
- Submit: Click here to save the new schedule settings.
- **Remove all schedules:** All existing schedules are deleted.



4. Technical specifications

Camera	SNC-P3601M colour dome camera
Sensor	1/3" 1.3 MP Sony Progressive Scan CMOS
Resolution (pixel)	1.3 MP (1280 x 1024)
Max. frame rate (fps)	25 at 1.3 MP (1280 x 1024)
Compression (video)	MJPEG / MPEG-4 / H.264
Number of video streams	3
Signal processing	Digital (DSP)
S/N ratio	>50 dB
Lens mount	CS
Iris control	DC
Lens type	Built-in 360° ImmerVision lens
Focal length	0.9 – 1.15 mm
Horizontal picture angle	360°
IR cut filter	Electronical
Light sensitivity	1.0 lux
Automatic Gain Control (AGC)	Yes
Digital Noise Reduction (DNR)	Yes
White balance	Auto / Suppy / Shadow / Indoor / Lamp
Backlight compensation (BLC)	WDR
Dav/night mode adjustment	Auto / colour / black-white
Camera adjustments	Web interface
Motion detection (zones)	
Title displayed in picture	12 Voc
Video output	No
	1x 2.5 mm jack / 1x 2.5 mm jack
	1x 3.5 mm jack / 1x 5.5 mm jack
Mation detection	
Sebedulo	Vee
Disture unload	
Supported monogement activere	HITE/FIE/SWIF
Supported management software	
Supported protocols	HIIP/FIP/SWIP
Supported software standards	
Internal memory	SD card (optional)
	RJ-45, 10Base-1/100Base-1X
Power over Ethernet (POE)	IEEE 802.3at, Midspan/Endspan
Classification	IP-54
Vandal-proof	No
Heating	No
Mounting	Surface
Camera installation	Screw fastening
Housing colour	RAL 9020 (matt white)
Housing material	Aluminium
Voltage	12 V DC or PoE
Power consumption	4.8 watt
Operating temperature (°C)	-10 to +50
Storage temperature (°C)	-20 to +60
Relative humidity (%)	max. 80
Dimensions W x H x D (mm)	135 x 120 x 135
Weight (g)	1.1 kg
Certification	CE

Subject to technical changes. Errors excepted.

Your local distributor:



www.santec-video.com