

Manual

Zoom Box IP-camera TV10 (IPC2712R1)



THE STRONGEST LINK.

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Disclaimer

Publisher and copyright holder:

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Any warranty claims are limited to the right to demand amendments. Liability for any damage that might result from the contents of these instructions or all other documentation is limited to clear cases of premeditation.

We reserve the right to amend our products and their specifications at any time, provided it is in the interest of technical progress. The information in the current manual (online) or the included in the delivery applies.

Target group

This manual is intended for the following groups of people:

- Project engineers
- Electricians and installers
- Operators
- Operating staff
- Maintenance staff

How to use this manual

- Read this manual, especially the safety notes, carefully before use.
- Take note of all other applicable documents.
- Keep this manual for the entire length of the service life of the device.
- Make this manual accessible to operating and maintenance staff at all times.
- Pass this manual on to each subsequent owner or user of the device.
- Update this manual every time R. STAHL issues an amendment.

Trademark

The terms and names used in this document are registered trademarks and / or products of the companies in question.

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Returning the device

Only return or package the devices after consulting R. STAHL. Contact the responsible representative from R. STAHL.

R. STAHL's customer service is available to handle returns if repair or service is required.

Contact customer service via E-mail or telephone:

E-mail: service.dehm@r-stahl.com

Telephone: +49 221 768 06 - 3000

Requesting an RMA ticked via our website:

Go to r-stahl.com.

Under "Support" > "RMA" > select "RMA-REQUEST".

Fill out the form and send it in.

You will automatically receive an E-mail with an RMA ticket.

Print out the RMA ticket.

Clearly copy the RMA number onto the outside of the package.

Send the device with the RMA ticket included in the package to R. STAHL HMI Systems GmbH.

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1 Description

TV10 SERIES can support up to 5M@30 fps video streaming. Moreover, TV10 SERIES offers a cost-effective, high quality images in low light conditions, combining with the latest HDR technology and low-light technology. TV10 SERIES also provides intelligent video analytics function.

TV10 Series is a H.265 Micro IP Camera has been designed to withstand ever-changing outdoor environment.

2 Features

- Multiple progressive scan CMOS sensor support up to 5MP resolution
- Multi exposure HDR
- Multi codec support (H.265 / H.264 / MJPEG)
- Low latency streaming
- Quad streams support
- True day / night function (ICR)
- 3D motion compensated noise reduction (MCTF)
- Text overlay and privacy masks
- Smart event function - external input / Motion detection / Network failure detection / Tampering alarm / Periodical event / Manual trigger
- MicroSD / SDHC / SDXC card support
- ONVIF profile S/G/T/M support

3 Preliminary remark

	Prior to installation and operation, read carefully all instructions in this manual and heed all warnings.
	Unpack this equipment and handle it carefully. If the package appears to be damaged, notify the shipper immediately.
	Use the original packaging to transport the unit. Disconnect power supply before moving it. In case of returning the equipment, the original packaging must be used.
	For security reasons, do not install the unit in the proximity of water containers and never push objects or pour liquids into the unit. The unit must be installed into an adequate camera housing.
	Video and data cables should not share the same conduit with supply voltage cables. Whenever EMC is an issue, adequately shielded cables must be used.
	This equipment has been designed to require little or no maintenance. Suggested inspection interval is 6 months, but extremely harsh environments may require more frequent inspection and maintenance checks. On each inspection check cables, electrical connections and mounting hardware for integrity and tightness. Replace or tighten any damaged/loose part.
	It is not recommended to record with the microSD card for 24/7 continuously, as it may not be able to support long term continuous data read/write. Please contact the manufacturer of the microSD card for information regarding the reliability and the life expectancy.
	Before performing any operation, turn off the power. The installation of the unit can be performed only by qualified personnel in accordance with the regulations in force. Do not connect the unit to a supply circuit unless the installation is completed.
	Incorrect Power Supply Voltage may damage the unit. Do not overload the terminal connection, as it may cause a fire or electrical shock hazard. Power supply connection to wrong connectors will result in damaging the device.
	An all-pole mains switch with an opening distance between the contacts at least 3mm in each pole must be incorporated in the electrical installation between the equipment and the main supply. Isolating switches, circuit breakers or any equivalent device can be used as a disconnection switch. Such switch must be very quickly recognizable and readily accessible.
	Fasten all the cables inside the housing with cables ties or other fixing means to avoid the electrical contact with surrounding parts in case that terminal blocks screw off.
	Electrical connections (such as plugs and cords) must be protected from potential hazardous environmental factors (e.g. foot traffic, hitting objects).
	Ensure that the unit case is properly earthed, connecting all the earth ground studs. Earth cable should be about 10mm longer than the other cables on the connector, in such way that it won't be accidentally disconnected if the cable is stretched or pulled.
	When leaving the unit unused for long periods, disconnect supply cables.

4 MicroSD card slot

Insert the microSD card into the card slot to store videos and snapshots. Do not remove the microSD card when the camera is powered on.

NOTE: It is not recommended to record with the microSD card for 24/7 continuously, as it may not be able to support long term continuous data read / write. Please contact the manufacturer of the microSD card for information regarding the reliability and the life expectancy.

5 Default button

Press the button with a proper tool for at least 20 seconds to restore the system.

6 Camera cabling

Please follow the instructions below to complete IP camera connection.

6.1 Power connection

Users can power the camera by PoE if a power sourcing equipment (PSE) switch is available. Refer to the section below for Ethernet cable connection.

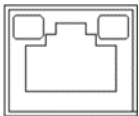
NOTE: If PoE is used, make sure PSE is in use in the network.

6.2 Ethernet cable connection

For best transmission quality, cable length shall not exceed 100 meters. Connect one end of the Ethernet cable to the RJ-45 connector of the camera and plug the other end of the cable to the network switch or PC.

NOTE: In some cases, Ethernet crossover cable might be needed when connecting the camera directly to the PC.

Check the status of the link indicator and the activity indicator LEDs. If the LEDs are unlit, please check the LAN connection.



Green power LED lights up when the camera is powered up.

Orange network LED (1) flashes when data is being transmitted over network, (2) lights up for good network connection.

7 Camera access

For initial access to the IP camera, use a web browser (recommended: Chrome) and go to the default IP address of the camera: **192.168.1.250**.

IP address of the PC in use must be in the same LAN as the IP address of the camera.

Default username is **admin**. Default password is **admin**.

ID and password are case sensitive. It is strongly advised that administrator's password be changed for security reasons.

Once logged in, the below homepage will be shown:

The screenshot displays the TECNOVIDEO web interface. At the top, there is a navigation bar with links: Home, System, Streaming, Camera, Pan Tilt, Logout, and a language dropdown set to English. Below the navigation bar, the interface is divided into sections. On the left, there is a 'Video Format Selection' section with a dropdown menu for 'Stream 1'. The main area is the 'Live Video Pane' showing a high-angle view of a train station platform with several high-speed trains. To the right of the video pane, there is a 'Time Display' showing '2010/05/19 02:36'. Below the video pane, there are several control buttons and information sections. The 'ZOOM' section includes buttons for WIDE, TELE, and 1x zoom. The 'FOCUS' section includes buttons for NEAR, FAR, and AF Mode. The 'AF Mode' section includes buttons for MANUAL, ZM TRIG, and PUSH AF. The 'Video Compression Info' section shows a table with four streams, their bitrates, and compression settings. The 'Video Quality Info Button', 'Full Screen Button', 'Talk Button', 'Listen Button', 'Snapshot Button', 'Live View Pause Button', 'Video Record Button', and 'Manual Trigger Button' are also present.

Stream	Bitrate	Compression	Quality
Stream 1	H264 bitrate 6144 kbps	low compression	high quality
Stream 2	H264 bitrate 4096 kbps		
Stream 3	H264 bitrate 2048 kbps	middle compression	middle quality
Stream 4	H264 bitrate 2048 kbps	middle compression	middle quality

8 Zoom & focus adjustment

Live stream will be displayed on the Home page when the camera is successfully accessed. If zoom or focus is not at the desired position, please use the function buttons on the Home page for adjustment.

9 Video resolution setup

Users can setup video resolution on video format page of the user-friendly browser-based configuration interface.

Video format can be found under: **Streaming> Video Configuration**

The screenshot displays the 'Video Configuration' page of the Technovideo system. The interface includes a top navigation bar with links to Home, System, Streaming (selected), Camera, and Logout, along with a language dropdown set to English. A left sidebar lists various configuration options, with 'Video Configuration' currently selected. The main content area is titled 'Video Configuration' and contains settings for four video streams. Stream 1 is configured with H.264 encoding, Main profile, 2688 x 1944 resolution, VBR rate control, 25 fps framerate, 8192 bitrate, and a GOV Length of 50. Stream 2 is configured with MJPEG encoding, 1280 x 720 resolution, 35 Q Factor, and 25 fps framerate. Streams 3 and 4 are currently set to 'No' encoding. 'Save' and 'Reset' buttons are located at the bottom right of the configuration area.

Stream	Encoding	Encode Type	Resolution	Rate Control	Profile	Framerate	Bitrate	GOV Length	Q Factor
stream 1	Yes	H.264	2688 x 1944	VBR	Main profile	25	8192	50	
stream 2	Yes	MJPEG	1280 x 720			25			35
stream 3	No								
stream 4	No								

The default value of video resolution is as below.

H.265/H.264- 2688 x 1944 (25 fps) + MJPEG- 1280 × 720 (25 fps)

10 Configuration file import / export

To import / export configuration files, users can access the maintenance page on the user-friendly browser-based configuration interface.

The maintenance setting can be found under this path: **System> Maintenance**.

Users can export configuration files to a specified location and retrieve data by uploading an existing configuration file to the camera. It is especially convenient to make multiple cameras having the same configuration.

Export

Users can save the system settings by exporting the configuration file (.bin) to a specified location for future use. Click on the <Export> button, and the popup file download window will come out. Click on <Save> and specify a desired location for saving the configuration file.

Upload

To upload a configuration file to the camera, please first click on <Browse> to select the configuration file, and then click on the <Upload> button for uploading.

Preserve this manual as a reference for future needs.

	Used electrical, electronic and stainless steel products should not be mixed with general waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/95/EC and 2002/96/EC. By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. For more information about collection and recycling of old products, please contact your local municipality or your waste disposal service. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.
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The manufacturer declines all liability for any consequence resulting from improper installation practices, tampering or improper uses of the product.

The descriptions and illustrations contained in this manual are not binding. The manufacturer reserves the right to make any alterations deemed appropriate for the technical manufacturing and commercial improvement of the product, while leaving the essential product features unchanged, at any time and without undertaking to update the present publication.

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