

# **CT-NewProducts**

## **Technical data**

## CT-3G-Video-transmitter



### CT-3G-Videotransmitter

The CT-3G-Videotransmitter is characterized by a particularly robust video transmission, even under changing or poor infrastructural conditions of mobile network.

The modular system is integrated seamlessly into the existing video transmission-, display- and recording-systems of the CT-Video GmbH.

The 2 integrated interfaces to CT-Cylinder-Cameras and their equipment (remote control, etc.), allows quick and easy setup the

system into operation. This is done by connection of the supply voltage (9 - 36 V DC) as well as connecting of only one system connector.

In addition, the CT-3G-Videotransmitter can be used in combination with CT-COFDM transmission components via connection with the system connector or can be integrated into the CT-UMTS-Case.

## Features

- very robust transmission even in poor cellular infrastructure through a permanent, dynamic adjustment of the compression rate of each available data rate
- very short delay time compared to alternative solutions
- AES 256 Bit Encryption or alternatively VPNsupport
- AES protected transmission and display on a viewer for Android, iPhone and Windows mobile (not included)
- extremely high compression rates and thus a transmission in poor network conditions possible (data rate can be reduced to 10 kbps)
- controlling of cameras and pan tilt heads with use of the protocols Visca (RS232), Pelco-D (485) and CT-Video (RS232)
- controlling and transmission of camera images to the internet as well as from the Internet to the viewers can be done via the mobile networks
- internal ring memory to store images in high resolution over a period of about 100 seconds
- control of the recorder X200/X300 (Timespace)
  - live monitoring
  - original streams can be downloaded from the recorder
- integrated video distributor (3-fold, for simultaneous transmission and output of the video signal via the system- and monitor-connector)
- integrated audio distributor
- integrated management of external feded and internal generated camera control signals
- system connector for monitor (power supply via the CT-3G-Video-transmitter)
- interface for GPS-mouse / GPS-map display
- sleep mode
  - 0.1 W power consumption in sleep mode
  - timer-controlled activation and deactivation of the sleep mode
  - additional cyclic link-connection to the server allows the server-controlled cancelling of the sleep mode by the user (cycle time adjustable)
- external trigger input
- automatic link-connection after power supply
- operating voltage 9 - 36 V DC
- power consumption (without camera):
  - 1.5 W in standby mode
  - 6 W in normal operating mode
- server software for Windows XP / Windows 7
- temperature range -32 °C up to +60 °C
- article number 1240217

## The system is modular and can be expanded in quick assembly:

Li-Ionen-Battery 12 V/8.85 Ah  
incl. fixing kit

Article number: 1240218



7" Monitor  
incl. fixing kit

Article number: 1240219

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## CT-3G- Operationcase Transmitter



### CT-3G-Operationcase Transmitter

The CT-3G-Operationcase Transmitter is a part of the mobile 3G-solution, consisting of Operationcase Transmitter und Receiver.

It is a modular system and is integrated seamlessly into the existing video transmission, display- and recording-systems of the CT-Video GmbH. A plurality of components may be used.

The main component is the CT-3G-Videotransmitter. It is characterized by a particularly robust video and audio transmission, even under changing or poor infrastructural conditions of mobile network.

The compression rate of the transmitted data is dynamic and constantly adjusted to each available data rate. The data transfer to a server can be done using the AES 256 encryption or VPN. Selection and displaying of the videos worldwide is done with special viewer software for Windows, Linux, Android and iOS systems.

Up to 4 camera signals are recorded and managed by the integrated digital audio and video recorder Time-Space X300.

The X300 can be configured and operated by the Timespace Reviewer X301. Live and archived videos can be shown on the display.

The control of the CT-Cylinder-Cameras, which are connected to the Operationcase, is done by software of the CT-3G-Videotransmitter or by the integrated radio remote control receiver CT-Remote Control-RX and remote control. Using the integrated Wi-Fi-Router you can access to the Timespace X300 with a notebook, which is located near the Operationcase.

It can display a live view image on the notebook and copy video recordings, without load the data rate of the mobile radio connection.

Is a GSM remote control module installed, the integrated components can be switched on or off by SMS or phone call.

Optional GPS and temperature sensors provide information about the position and temperature.

An integrated lithiumion battery powers the CT-3G-Operationcase with operating voltage. To display the camera images a 7" monitor can be integrated in addition.

# Specification

CT-3G-Operationcase Transmitter		
Article number	1240655	
Power supply	12 V DC	
Power consumption	app. 2.7 A (depending on the installed components)	
Capacity Lithium-Ion-Battery	8.85 Ah	
Dimensions	485 mm x 392 mm x 192 mm	
Weight	app. 12 kg	
Temperature range storage	-20 up to +60 °C	(depending on the installed components)
Temperature range operation	-20 up to +60 °C	

# View connection sockets



Technische und konstruktive Abweichungen von Beschreibungen und Angaben in Datenblättern, Prospekten, Katalogen und schriftlichen Unterlagen sowie Änderungen im Zuge des technischen Fortschritts bleiben vorbehalten, ohne dass hieraus Rechte gegen die CT-Video GmbH hergeleitet werden können!

## CT-3G- Operationcase Receiver



### CT-3G-Operationcase Receiver

The CT-3G-Operationcase Receiver is a part of the mobile 3G-solution, consisting of Operationcase Sender und Receiver.

It is a modular system and is integrated seamlessly into the existing video transmission, display- and recording-systems of the CT-Video GmbH.

The CT-3G-Operationcase Receiver allows a quick and easy connection of network components/notebooks/WLAN components to the available regional mobile technical infrastructure.

WLAN components to the available regional mobile technical infrastructure.

The user is therewith able, for example, to control the operating status of the installed equipment for audio and video transmission and to monitor situations over long distances and to control live.

An integrated lithiumion battery supplies the CT-3G-Operationcase with operating voltage. Accessories can be transported in the large storage compartment.

## Specification

CT-3G-Operationcase Receiver	
Article number	1240650
Power supply	12 V DC
Power consumption	app. 0,5 A
Capacity Lithium-Ion-Battery	8.85 Ah
Dimensions	406 mm x 330 mm x 174 mm
Weight	6.8 kg
Temperature range storage	-10 up to +50 °C
Temperature range operation	-20 up to +50 °C

## View connection sockets



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## CT-Helmet Camera



### CT-Helmet Camera

The helmets EOD 9 and EOD 9A for EOD/IEDD operations can be fitted with the CT-Helmet Camera by simply attaching to the visor.

The camera and holder fits seamlessly without visible edges in the contour by a special design. The mounting is done without changes to the helmet. It can be removed quickly from the helmet when needed.

The camera generated even in very dark environment a detailed image. It can be vertically adjusted by twisting.

In height of the collar of the bomb disposal suit is situated a port for the connection of power supply and video transmitter.

The power for the camera is supplied by a separate battery. An additional a CT-DCOM-Transmitter can transmit video images over several kilometers digitally. In mobile use they can be received by a CT-RX-Case and displayed on a monitor.

In the holder of the CT-Helmet Camera filters can be placed in front of the lighting LEDs, which are integrated in the helmet.

The use of the very robust CT-Camera Holder is possible under extreme environmental conditions.





## Specification

1/3" IR-Color-Camera	
Article number	K1200829
Resolution	600 TVL (795 x 596 Pixel)
Minimum illumination	0.001 Lux/F1.4
Sensor	1/3" HADII CCD-Chip
S/N ratio	> 50 dB
Synchronisation	Intern
Electronic shutter	1/50 up to 1/100.000 sec
Backlight compensation	automatic
Smear effect	0.004 %
Video system	PAL/625 Zeilen, 50 Hz
Video output	CVBS 1Vpp/75 Ω
Power supply/Power consumption	12 V DC/0.1 A
Temperature range operation	-10 up to +60 °C
Humidity	up to 90 %
Focal distance lens	3.7 mm/F 2.0
Focus setting	0.5 m up to 5 m

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## CT-3G- Topcase



### CT-3G-Topcase

The CT-3G-Topcase is a mobile, independently of outside electricity, digital video recording and transmission system. Mounted on a motor scooter, for example can be used for covert surveillance and monitoring.

Inside the CT-3G-Topcase up to two pan/tilt cameras with zoom lens can be fitted and controlled. The cameras are positioned behind small rivet imitation, the appearance of the top case remains virtually unchanged.

The integrated CT-3G-Videotransmitter is characterized by a particularly robust video transmission, even under changing or poor infrastructure mobile network conditions (GPRS, EDGE).

The data are recorded in a digital video recorder X300 on the hard disk with a capacity of up to 1 TB. Recording modifications, such as motion detection, triggered recording and recording by schedule, are possible.

Recordings can be downloaded from the recorder X300 via Wi-Fi accesspoint in immediate area, without impairment the data transmission rate of the active mobile radio connection.

A relay interface receives control signals from radio remote controls and UMTS commands in the protocol Pelco D, with which the pan/tilt cameras can be controlled.

The CT-3G-Topcase and the Wi-Fi access point can be activated remotely via GSM module (SMS command), the localization can be done via a GPS module.

Redundant data can be transferred via an additionally integrated digital COFDM transmit system at a maximum output power of 2 watts.

The integrated battery with a capacity of 30 Ah allows an independent work.

## Specification

CT-3G-Topcase	
Article number	K1200900
Power supply	12 V DC
Power consumption	app. 2 A
Capacity Battery	30 Ah
Dimensions	480 mm x 400 mm x 300 mm
Weight	11.7 kg
Temperature range storage	-20 up to +60 °C
Temperature range operation	0 up to +50 °C

1/3" IR-Color-Camera	
Resolution	600 TVL (795 x 596 Pixel)
Minimum illumination	0.001 Lux/F1.4
Sensor	1/3" HADII CCD-Chip
S/N ratio	> 50 dB
Synchronisation	Intern
Electronic shutter	1/50 up to 1/100.000 sec
Backlight compensation	automatic
Smear effect	0.004 %
Video system	PAL/625 Zeilen, 50 Hz
Video output	FBAS 1V <sub>ss</sub> /75 Ω
Power supply/Power consumption	12 V DC/0.1 A
Temperature range operation	-10 up to +50 °C
Humidity	up to 90 %
Focal distance lens	10 up to 50 mm/F 2.0

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## CT-Mini-PTZ-Camera



### CT-Mini-PTZ-Camera

The CT-Mini-PTZ-Camera is a new development of the CT-Video GmbH! It consists of a miniature pan/ tilt head and a camera module.

The small overall size allows installations in a variety of different types of containers for use in covert operations. The dimensions are optimized for installation in headrests of cars.

The pan/ tilt head can be equipped with different small camera modules or board cameras. This makes it possible to select a CT-Mini-PTZ-Camera with important parameters (e.g. focal length, light sensitivity, size) for the operation.

The center of rotation lies inside the camera module.

The CT-Mini-PTZ-Camera can move exactly to any position in a horizontal angle of 320° and vertical angle from -20° to +20°. It can be saved 5 preset positions, which the camera moves to sequentially.

The CT-Mini-PTZ-Camera supports multiple protocols and is fully compatible with other CT-Video-components. The CT-Mini-PTZ-Camera can be controlled via cable-connected control, wireless remote control or via a joystick.

## Specification

CT-Mini-PTZ-Camera	
Article number	K1200916
Power supply	12 V DC
Power consumption	app. 650 mA
Dimensions (L x W x H)	90 mm x 65 mm x 80 mm
Pivoting range horizontal	320°
Pivoting range vertically	+/- 20°
Weight	400 g
Temperature range storage	-20 °C - 60 °C
Temperature range operation	0 °C - 50 °C
Camera module	FCB-EX20DP
Image sensor	1/3"-Type Super-HAD II CCD
Number of pixel	440.000
TVL	530
Lens	10x optical zoom, f = 5,1 mm - 51,0 mm, F 1,8 – 2,1
Digital zoom	12x
Horizontal viewing angle wide - tele	52,0° - 5,4°
Light sensitivity	0,25 lx (F 1,8), 0,0004 lx (F 1,8) in the ICR-On-Mode
S/N ratio	> 50 dB
Electronic shutter	1/1 up to 1/10.000 s, 22 steps
Video output	1,0 VP-P, sync negative, Y/C
Backlight compensation	yes
Privacy zone masking	yes
Motion detection	yes
Camera control	RS232
Control protocol	Visca, Pelco-D, CTV standard, CTV extended

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## CT-Cylinder Camera Low Light Long Range



### CT-Cylinder Camera LOW LIGHT LONG RANGE

The CT-Cylinder Camera Low Light LR produces high-contrast and low-noise images from great distance at very low light level due to its high light sensitivity.

It is characterized by easy operation, a very good, automatic adaptation to different light conditions and an integrated day-night lens as a basis for stand alone operation. The camera thus integrates seamlessly into CT-Cylinder Camera product family.

The compatibility with the mobile recording and transmission components of the CT-Video GmbH guarantees in the context of mobile operations, a simple, an extremely fast and error-free installation of the entire system.

The camera can be integrated into existing systems easily due to their multiprotocol capability and standardized interfaces. It can be controlled in combination with commercially available recorders and video servers.

The modular design allows the construction of application-specific versions, according to your requirements. In this way, longer focal lengths, special lenses to improve the vision in fog and to minimize heat haze can be implemented and controlled.

A further optimization of the night features is possible by using of EM-CCD sensors. For short working distances we recommend using the CT-Cylinder Camera Low Light Medium with lenses up to 80 mm focal length.

## Specification

CT-Cylinder Camera Low Light Long Range	
Article number	1241826
Power supply	12 V DC
Power consumption	app. 500 mA (without motor control and video server)
Dimensions	615 mm x Ø 200 mm
Viewing range horizontal	360°
Pivoting range vertically	+10°/-15°
Weight	app. 15 kg
Temperature range storage	-20 °C - 60 °C
Temperature range operation	-10 °C - 50 °C
Degree of protection	splashproof
Camera control	RS232
Control protocol	Visca, Pelco-D, CT-Video
Connection	Cable lenght 0.5 m with plug Binder 720, 8 pole
Image sensor	High sensitivity 1/2" CCD
Number of pixel	752 x 582
TVL	570
Light sensitivity	0.003 Lux - F 1.4 - AGC on
S/N ratio	> 50 dB
Electronic shutter	1/50 - 1/10.000 s
AGC	off, +12 dB, +24 dB
Backlight compensation	off, three pre-defined patterns
Video output	1,0 VP-P , 75 Ω
Lens	22x optical zoom, f = 11.5 mm - 253 mm, F 1.6
Horizontal viewing angle wide - tele	31° - 1.2°

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