



WELCOME WIRELESS FUTURE!

INNOVATIVE WIRELESS TRANSMISSION SYSTEMS FOR IP CAMERAS



IP PRODUCTS CATALOGUE

CATALOGUE OF WIRELESS SYSTEMS FOR IP CAMERAS

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The transmitter without restrictions, works without optical visibility and for hundreds of kilometers

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Global CAM-LTE

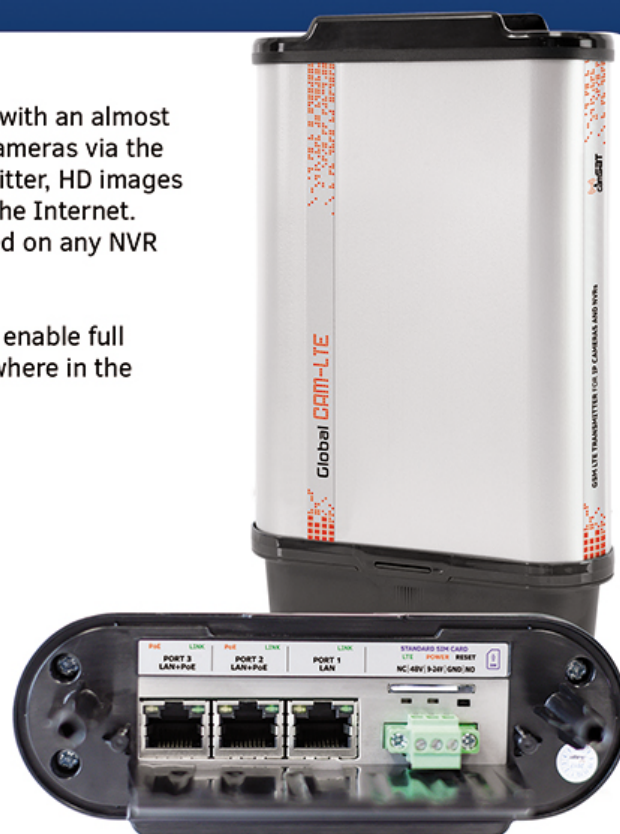
Wireless transmitter for IP cameras with unlimited range and without optical visibility (NLOS)



GlobalCAM-LTE is a wireless transmitter for three IP cameras with an almost unlimited range. Transparently transmits all signals from IP cameras via the GSM LTE network. Thanks to the GlobalCAM-LTE radio transmitter, HD images from IP cameras can be picked up anywhere in the world via the Internet. Images from cameras can be viewed online as well as recorded on any NVR network recorder.

The GlobalCAM-LTE connected to the DVR / NVR recorder will enable full access to the recorder's archive and online images from anywhere in the world.

- ✓ 2 PoE+ ports with a power of 30W,
- ✓ Transmission to any distance from LTE locations,
- ✓ Preview of the images from cameras via the Internet on a smartphone, tablet and computer,
- ✓ Allows the transmission of images from the IP camera, but also from the recorder, which enables access to registered materials.



GSM LTE series

PARAMETERS	Global CAM-LTE
Transmission	based on GSM LTE (4G and 3G)
Frequencies LTE	800/850/900/1800/1900/2100/2600 MHz
Recommended distance from BTS station	to 3 km or 5 km with directional antenna
Download / send speed	up to 100 Mbps / up to 50 Mbps
Number of LAN PoE + ports	3 x 10/100 Mbps
Ilość portów LAN PoE+	2 (with DC 48-57V power supply)
Antenna	360 ° Antenna MIMO built-in
Degree of protection	IP65
Power supply	9-57V DC
Working temperature	-20°C ÷ 70°C

CDS-EasyIP eco is the cheapest solution for installations in demanding conditions. The installation of CDS-EasyIP eco does not require advanced knowledge or additional devices (configuration without a computer), it allows for a significant reduction in the cost and time of the installer's work. This is ideal even for novice users.

To start the device, all you need to do is select the DIPswitch channel and the transmitter / receiver option.

The rest of the settings takes place automatically along with the transmission coding.



- ✓ Two inputs for IP cameras
- ✓ Range 2500-3000 m
- ✓ Very easy to start, no configuration web panel,
- ✓ Up to 4 transmitters for one receiver

PARAMETERS	CDS-EasyIP eco	CDS-EasyIP	CDS-EasyIP/SMA
Operating modes	1-4 transmitters to the receiver		
Configuration	Point-to- point, point-to- multipoint		
IP cameras	1-8 Mpix		
Powering the PoE camera directly from CDS-EasyIP	Not	Yes (PoE - 15 W)	Yes (PoE - 15 W)
Resolutions	4K, UHD, HD1080p, HD720p, PAL/NTSC and lower		
Number of channels (CE / all)	4 / 16		
Frequencies (CE / All)	5180 - 5240 MHz / 5180 - 6065 MHz		
Standard range with a built-in antenna	2,5 km		
Inputs for IP cameras	2 x RJ45 10/100 Base-TX		
Power at the output (e.i.r.p)	23-27 dBm		
Transmission coding	TAK - coding set by means of DIPswitch		
Dedicated antennas	5.2 GHz MIMO (H-V), for example AP13-HV		
Housing	IP65		
Power supply	48V PoE		
Temperature	-20° C to +70° C		

All CAMSAT systems designed for IP cameras are compatible with an external switch

• X-CAM II switch4F • X-CAM II switch4L • X-CAMswitch/12 • X-CAMswitch/48

An innovative wireless system for IP cameras that does not require a computer to perform setup and commissioning. Very easy to start system of transmitters and receivers intended for installers starting their work with IP cameras. The setup means only selecting the operating channel and the transmitter / receiver option by the DIPswitch. The rest of the settings takes place automatically along with the transmission coding.

The system transparently transmits the signal from IP cameras regardless of the address of the IP address family in the cameras or the recorder.

The possibility of using 4 (CE) or as many as 16 (all) independent video channels in connection with very high image quality ensures stable transmission of up to 16 images at the same time.

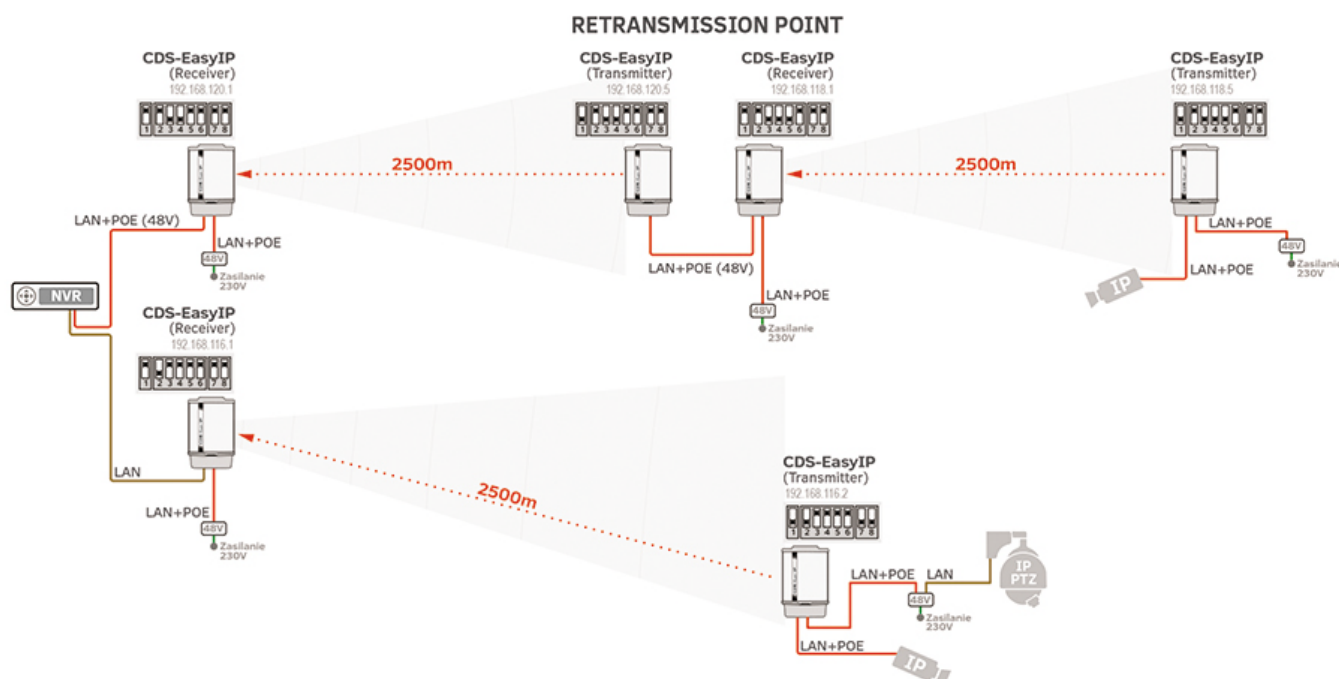


- ✓ two PoE ports for IP cameras,,
- ✓ power supply for the camera directly from CDS-EasyIP
- ✓ range 2500 m
- ✓ simple to start
- ✓ no web configuration panel
- ✓ integrated directional antenna and connectors for external antennas * SMA
- ✓ works with UHD and Full HD IP cameras

* Available in the CDS-EasyIP / SMA model



Przykłady ustawień DIPswitch w konfiguracji jeden nadajnik oraz jeden odbiornik jak i połączenie z punktem retransmisyjnym. CDS-EasyIP umożliwia połączenie do czterech punktów retransmisyjnych po drodze.

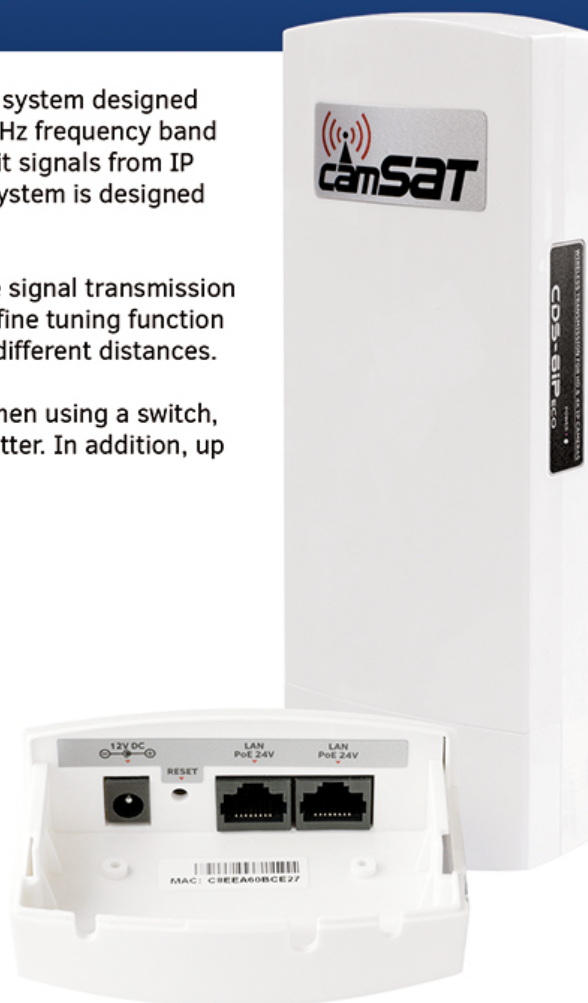


CDS-6IPeco is a very easy to configure wireless transmission system designed for transmission of audio / video and PTZ signals in the 5.6 GHz frequency band with 500mW (27 dBi EIRP). The device is designed to transmit signals from IP cameras with high resolution (up to 10Mpix - 4K UHD). The system is designed for use with any IP camera.

The built-in dual antenna MIMO 5.6 GHz 2 x 14 dBi allows the signal transmission in the standard version up to 2 km, and the ability to use the fine tuning function of the antenna guarantees high transmission quality even at different distances.

The CDS-6IPeco system has two ports for two IP cameras. When using a switch, the number of cameras can be extended to 4 per one transmitter. In addition, up to 4 transmitters can be assigned to each receiver.

- ✓ Two inputs for IP cameras
- ✓ Range over 2 km
- ✓ Easy configuration
- ✓ It supports iCAMSAT-OS protocol ensuring stable and efficient transmission
- ✓ Integrated internal directional antenna
- ✓ Supports UHD and Full HD IP cameras
- ✓ Compatible with CDS-6IPMulti, CDS-6IP / SMA



PARAMETERS	CDS-6IPMulti	CDS-6IP/SMA	CDS-6IPeco
Modes of operation	VIDEO BRIDGE, MASTER, SLAVE		
Configuration	Point-to- point, point-to- multipoint		
IP cameras	1-8 Mpix		
Resolution	4K, UHD, HD1080p, HD720p, PAL/NTSC and lower		
Number of CE work channels	16		
Working band (CE / all)	5180 - 5350 MHz / 5470 - 5725 MHz		
Standard coverage	2 km	2 km or 5 km	2 km
LAN input / output	2 x RJ45 10/100 Base-TX		
Output power (e.i.r.p.)	27 dBm		
Dedicated antennas		5.6 GHz MIMO (H-V), eq. AK28-HD, AP13-HV	
Power Supply	PoE 48V or 12-50V DC	12V DC 1A or 12-24V PoE	12V DC 1A or 12-24V PoE
Temperature	-20° C to 55° C	-20° C to 70° C	-20° C to 70° C

All CAMSAT systems designed for IP cameras are compatible with an external switch

• X-CAM II switch4F • X-CAM II switch4L • X-CAMswitch/12 • X-CAMswitch/48

CDS-6IP^{MULTI}

Wireless system for HD and 4K IP cameras with 4 LAN PoE ports

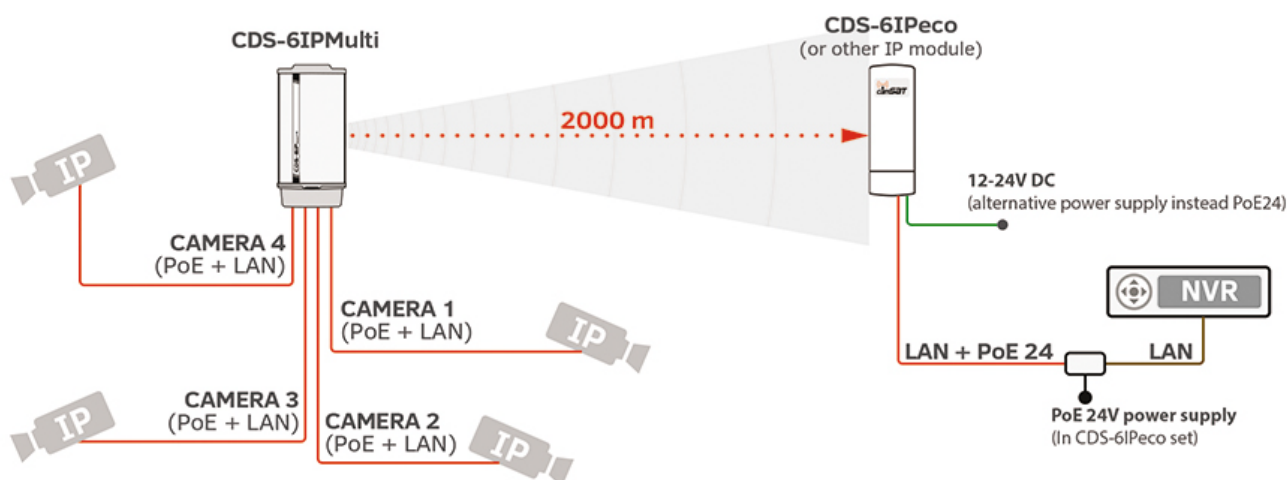
CDS-6IPMulti is a very easy to use wireless system for IP cameras. It has 4 built-in LAN ports enabling direct connection of up to 4 IP cameras to one transmitter and powering them through PoE. It allows a significant simplification of the installation and minimization of the number of working devices as well as costs.

CDS-6IPMulti is a very easy to configure wireless transmission system designed to transmit audio / video signals in the 5 GHz frequency band with 500mW (27 dBi EIRP). The device is designed to transmit signal from 4 IP cameras with high resolution (up to 8Mpix - 4K UHD).

The system works using iCAMSAT-OS software and ensures stable and efficient image transmission. The software guarantees easy and intuitive configuration. It is enough to set only 2 necessary parameters (IP address and work channel number) to get a radio connection. In addition, the software includes HELP icons, which contain the necessary information on how to configure the device and sample configurations.

CDS-6IP series

- ✓ 4 PoE ports for IP cameras
- ✓ range over 2 km
- ✓ simple to start
- ✓ integrated, internal directional antenna
- ✓ works with UHD and Full HD IP cameras



CDS-LIFT IP

Transmitter for lifts and cranes monitoring with IP cameras

CDS-Lift IP series

CDS-Lift IP is a wireless elevator monitoring system created in response to high demand for this type of product on the security market and meeting important security standards.

What distinguishes it is its high and stable transmission quality combined with high immunity to interference, as well as exceptional ease of commissioning, without using a computer and without the required IT knowledge.

The system transmits wirelessly the signal from IP cameras placed inside elevator cabins. The picture quality is lossless and identical to that of wired transmission. CDS-Lift IP transmits all video, audio and data signals transparently. One receiver can receive signals from two independent cabins working in the same shaft.

Transmitter with two inputs for IP cameras

Each transmitter has two inputs for IP cameras. Each input transmits images from cameras with a resolution of up to 8 megapixels.

Resistant to interference and signal reflections

The use of digital radio technology ensures uninterrupted transmission even when the cabin moves at high speed and transmission between numerous lift cables.

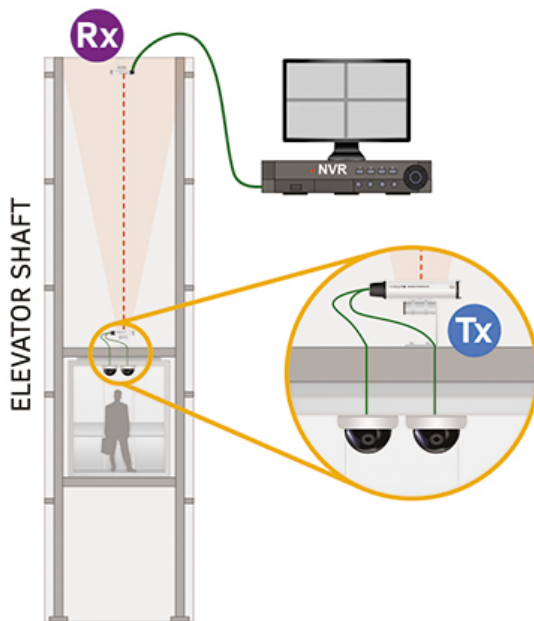
Application

The system is designed to work in both electric and hydraulic lifts, both old and new. It can be used in passenger elevators, cargo lifts, hospital elevators or special elevators.



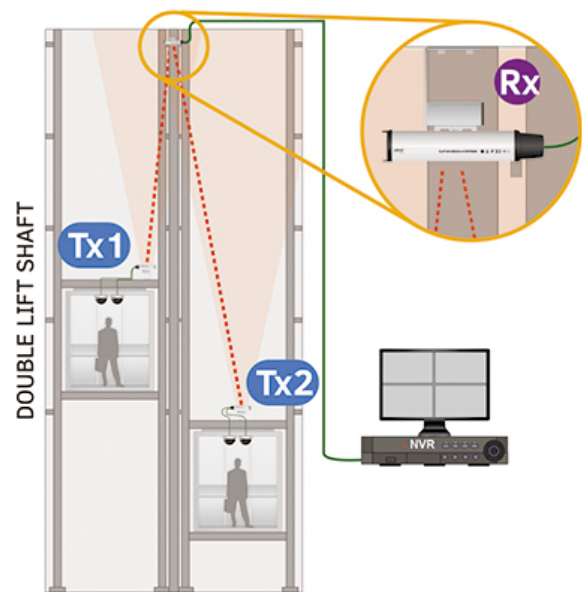
Example 1

Transmitter mounted on the roof of the elevator



Example 2

One receiver for two elevators



Rx Receiver **Tx** Transmitter

All CAMSAT systems designed for IP cameras are compatible with an external switch

• X-CAM II switch4F • X-CAM II switch4L • X-CAMswitch/12 • X-CAMswitch/48

X-CAM II SWITCH

PoE+ external switches for IP cameras

X-CAM II are the latest, external switches for IP cameras in PoE+ IEEE802.3at and IEEE802.3af technology.

The power on each port is up to 30W, so the switch can be used with large PTZ cameras with IR. X-CAM II switches have an IP65 housing resistant to weather conditions and operate in a very wide temperature range, which makes them applicable in various climate zones.

Very convenient and shortening the installation time function is to supply the device directly from the 100V-230V AC network. X-CAM II is a complete solution. You do not need any additional housing, adapters or power supplies.

- ✓ 4x LAN with PoE+
- ✓ PoE standard - 802.3at and 802.3af
- ✓ UpLink port - 1 x LAN
- ✓ Maximum IP camera power - 30W on each port
- ✓ Cable length - according to 802.3af and 802.3 at standards up to 50m



COMPARISON OF THE LATEST X-CAM II FAMILY PRODUCTS

	2016	X-CAM switch/48			
		X-CAM switch/12			
NEW 2018		X-CAM II switch4F			
		X-CAM II switch4L			
Ports for IP cameras	4x LAN z PoE+	✓	✓	✓	✓
LAN uplink port	1x LAN	✓	—	✓	✓
Fiber uplink port	1x SC Fiber	✓	✓	—	—
Standard PoE+	802.3at , 802.3af , PoE+ (30W for each port)	✓	✓	—	—
Standard PoE Passive	PoE Passive for each port 30W without standard control (30W / Port)	—	—	✓	✓
PoE cable length	up to 50 m	✓	✓	✓	✓
Application	IP65 external	✓	✓	✓	✓
Installation	Cable ties or cibs	✓	✓	✓	✓
Power supply	230V AC	✓	✓	—	—
48V DC buffer power input	Optional power supply from 12V DC for example from buffer power supplies or accumulators	□	□	✓	✓
12V DC buffer power input	Optional power supply from 12V DC while maintaining PoE+ ports	—	—	✓	—
Working temperature		-20° C ÷ +70° C		-20° C ÷ 55° C	
Dimensions		340x220x78 mm		140x180x60 mm	
Weight		1200 g		380 g	

Comparison of parameters

Wireless IP systems

✓ Option in the standard solution □ Option available on request — Option not available or not applicable

Wireless systems for IP cameras – CAMSAT						
CDS-6IP series				CDS-6IP eco		
				CDS-6IP/SMA		
				CDS-6IP Multi		
CDS-EasyIP series				CDS-EasyIP eco		
				CDS-EasyIP		
				CDS-EasyIP/SMA		
LAN ports [number of inputs for IP cameras without additional switch]	x2	x2	x2	x4	x2	x2
PoE+ ports [power supply cameras via PoE]	x1 (30W/15,4W/port)	x1 (30W/15,4W/port)	□	x4 (15,4W/port)	—	—
Range [standard with an internal antenna]	2500 - 3000 m			2000 m		
Range 5 km or more [with external antenna]	✓	—	—	—	✓	—
Speed and bandwidth						
Maximum transmission speed	300 Mbps			300 Mbps		
Continuous bandwidth [uninterrupted transmission with a load of 4-8 HD-4K cameras, delivery 99% of image frames / 24h with given speed]	300 m 99 Mbps			300 m 94 Mbps		
	1000 m 80 Mbps			1000 m 50 Mbps		
	2000 m 72 Mbps			2000 m 30 Mbps		
	2500 m 50 Mbps					
* measurements in real conditions made with the NaviTek meter	3000 m 30 Mbps					
Work band	5.1 - 5.9 GHz			5.2 - 5.6 GHz		
Number of operating channels	4/16			16		
Radio power	23 - 27 dBm			27 dBm		
Internal antenna [embedded]	✓ [16 dBi]			✓ [14 dBi]		
SMA [connector for external antenna]	✓	—	—	—	✓	—
Power supply and working conditions						
Power supply	PoE-48V	PoE-48V	PoE-48V	12-48V DC	PoE-24V	PoE-24V
PoE power supply included	✓	✓	✓	—	✓	✓
Possibility of powering directly from the PoE or NVR switch	✓	✓	✓	—	—	—
Temperature	-20 to 70°C			-20 to 55°C	-20 to 55°C	
Protection class	IP65			IP55	IP65	IP55

Compatible antennas, increasing the range or directivity of work:
AK13-HV, Sektor5 MIMO, AK28-HV.



AP13-HV - omnidirectional antenna MIMO
Angle - 360 / 8 (H/V)



Sektor5 MIMO - sector antenna
Angle - 85 / 8 (H/V)



AK28-HV - directional antenna
Angle - 6 / 8 (H/V)

MONITORING OF MUNICIPALITIES WITHOUT PROJECTS AND PERMISSIONS IT WAS NEVER THAT EASY!

Do you carry out projects
for municipalities, city guards and large institutions
that require very reliable protection?

SUGGEST MOBILE SYSTEMS ICAM-X EQUIPPED WITH YOUR IP PTZ CAMERA

ICAM SERIES MOBILE CAMERAS

iCAM-MobileHD version II

- **Global coverage**
Hang your camera anywhere and record content on any DVR even in another country via the Internet in Full HD and 25 fps
- **Own power supply 12-16h**
Own power supply for 12-16h and the possibility of charging from each 230V lighting post
- **4G LTE**
Unlimited wireless coverage with video transmission, control and registration via GSM LTE network and 5.6 GHz radio
- **Internal video recording for 30-90 days**
The camera records HD images in very high quality for up to 90 days
- **VMS**
Compatible with almost any VMS server and NVR (Milestone, Bosch, Novus, Hikvision, QNAP, Genetec ...)
- **IR150**
Night IR lighting with a range of 150 m or even 500 m



iCAM-PowerHD

- **3 days of own power supply**
Hang the camera anywhere, even without a power source. Control and online preview as well as registration on NVR or VMS will be carried out completely remotely with a minimum delay.
- **3 days of internal image registration**
All video and alarm events are stored in the camera throughout the life of the camera.
- **StandBy**
Advanced modes of saving energy controlled by SMS or radio remote control enabling less frequent battery replacement.
- **Alarm**
System of informing the user about alarm events in the surroundings of the camera or its dismantling



A lot more information can be found on the manufacturer`s website: www.camsat.com.pl/icam

CAM-TV12.0 **TurboHD**

FIRST IN THE WORLD WIRELESS SYSTEM FOR **TVI** CAMERAS



- Resolution HD 1080p
- HD signal transmission for 500 m
- Operation band 5 GHz



HIKVISION TVI

TURBO HD

WIRELESS HD-TVI

TVI

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