

„iCAM-Tower 5MQ1” Mechanical structure of the CAMSAT mobile surveillance tower



ATTENTION: The above photos may show electronic components, installations and a trailer that is not included in the set.



Specialists in CCTV wireless transmissions

iCAM-Tower 5MQ1 is a mechanical structure of a surveillance tower with a tower base with a battery compartment and a retractable mast with covers. It is a complete set of mechanics that can be equipped with cameras and electrical installation in any configuration.

The mechanical structure of the iCAM-Tower 5MQ1 towers has the following functionalities:

- Modular construction for easy transport and lifting with forklift, HDS or crane
- The mast is lifted to a height of 5.3m by a safe system with two steel cables
- Doors that enables installation of reed switches, wire and grounding fittings
- Space for 3 batteries, 200—220Ah / 12V each (option for 4 batteries 200Ah / 12V)
- Head at the top of the mast to install 5 fixed or PTZ cameras
- In the head there is a place for a 4-8-port PoE switch and an LTE communication module
- Quick disassembly of (retractable) head from the top of the mast
- Mounting cameras to the head with special slide-in sockets – simple, instant camera replacing between the towers
- Place for electric boxes in the base of the tower
- Space for the two additional electric boxes on the inside walls
- The mast is equipped with mountings for the overhang cables
- Four extendable supports to prevent the structure from tipping over
- Special mounting sockets for transporting each foot and supports
- Crane eyelets for lifting the tower and for transport lashing
- The main structure is made of 3mm thick sheet metal, and the top is covered with spikes protecting against unauthorized access, made of 1.5mm sheet
- The structure is entirely made of galvanized steel and protected against weather conditions
- Modular structure with the possibility of disassembly or quick modification of individual elements of the tower and mast
- Mast with special sockets for installing PIR detectors, speakers, halogens, at a height of about 2.5—2.7m
- Quick slide-in mounting system for PIR sensors, LEDs and megaphones on the tower – allows moving each component to another tower without using tools
- It is possible to equip the tower with optional accessories:
 - Slide-in mounting for solar panels
 - Transport trailer with stabilization fittings
 - Wind turbine or solar power system
 - Compartments for 8 batteries



CAMSAT - Polish producer of mobile cameras and wireless systems for CCTV cameras



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DATASHEET

Retractable mast

Height of extended mast	5,3 (H) [m]
No. of segments	4 (3 moving sections, 1 fixed section)
Mast extension mechanism	Cord system with a crank mechanism and safety lock against falling
Mechanical protection of the mast	Mast with double cable system in the highest sections of the mast. Double section with cord with double lifting force (ratio 2:1). Snap lock that blocks the mast section and eases the burden on load-bearing rope and reel.

Tower

Installation	Placing on solid ground and positioning the side supports. Lifting the mast with a locking cord reel.
Transport	On the pallet – place for the forks of the transport forklift. Lifted by HDS or crane – 4 crane eyelids at the upper part of the tower; strength: 4x 380kg Option: Transport trailer with towing hook and anchors for the tower. The system is secured to work on a trailer without removing the tower.
Positioning and leveling	An bubble level built into the tower for easy positioning.

Purpose	For outdoor use
Structure	Made entirely of galvanized steel
Protective coating	Galvanisation
Place for batteries	3x 200Ah/220Ah/12V Option: 4x 200Ah/12V
Mechanical protection of the tower	Four support feet with a spacing of 3000 mm. Key locks and places for magnetic reed switches.
Tower base size without supports and without the camera head	900(L)x900(D)x2020 (H) [mm]
The height of the entire tower after the mast is extended	5.3 (H) [m]
Height of the entire tower prepared for transport	2.4 (H) [m] – with the camera head placed on the top of the mast 2.02 (H) [m] – without the camera head placed on the top of the mast
Weight of the structure without electronics and equipment	<220kg
Compartments	Water-resistant lower compartment for batteries with a shelf for the electrical box. The upper chamber is open at the top with space for additional boxes, hiding supports and sag cables.



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RELATED TO THIS PRODUCT

3.11	1125	AKU-S100AZ		100Ah/12V gel battery Modern gel battery resistant to deep discharge. The battery is adapted to cyclic discharging and charging, which makes it ideal for CCTV and solar systems.
3.12	1126	AKU-S200AZ		200Ah/12V gel battery Modern gel battery resistant to deep discharge. The battery is adapted to cyclic discharging and charging, which makes it ideal for CCTV and solar systems.
3.13	1370	iWirelessPIR-500M		Wireless PIR motion detector with a radio range of 500m NLOS (through obstacles), automatically triggering the approach and the camera's approach to the detection area. Designed to protect the area up to 500m from the tower.
3.14	1150	MEG-25 set		Megaphone for automatic audio messages and audio messages from the operator
3.15	1151	LED-45W set		Light LED halogen Set of two halogens with pole mounting
3.16	1132	G-LINE Q3		A special overhang cable connecting the top of the tower with the base, compatible with Q3, Q2, Q1. It includes multi-core cabling in a mechanically foldable sheath. Length adapted to the height of the tower 5m. Cable terminations with system, multi-pin, hermetic IP66 plugs that fit into the control box and the housing at the top of the head.
3.17	1133	G-LINE Q4		A special overhang cable connecting the top of the tower with the base, compatible with Q4, Q1 towers. It includes multi-core cabling in a mechanically foldable sheath. The length is adapted to the height of the tower 5m with separation in the middle of the tower for PIR, LED and loudspeaker sensors. Cable terminations with system, multi-pin, hermetic IP66 plugs that fit into the control box and the housing at the top of the head.

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