

Mobile Operations Control System for Central Operations Management in Dangerous Areas

Funksysteme Meyer



A picture often says more than thousand words

The functions and application possibilities of our mobile, modularly-built radio system have already spurred great interest with professional fire brigades and plant fire brigades as well as departments for fire and emergency services in Germany, Switzerland, China and Korea. With numerous fire services from Stralsund to Augsburg and Hamburg to Stuttgart and several plant fire brigades from Merck in Darmstadt to Ruhrchemie in Oberhausen and Bosch Rexroth AG Lohr as well as PCK Schwedt and further including the tunnel fire brigade in Wallowing and also the airport fire brigade in Halle Leipzig, our systems are integrated and in use with telescopic mast lifts and turntable ladders in mobile command centres and hazardous substance measuring vehicles.



The system was developed and tested together with the Institute of the Fire Department Saxony-Anhalt Heyrothsberge, with technical support through VTQ Videotronik in Querfurt and with the practical experience of the Fire Brigade, Frankfurt am Main.

The system was presented for the first time on the occasion of the Interschutz 2000 exhibition in Augsburg to a large professional audience and also appeared in 2005 in Hannover and in 2010 in Leipzig. With its diverse possible combinations and application possibilities as well as its performance strength, mobility and flexibility, we convinced the international professional world with our wireless, radio-transferred system once again. With our outstanding parameters, we had, once more, a unique presence at the world's largest trade fair.



For the Interschutz in Leipzig, a Bronto Skylift vehicle used by the fire brigade in Hannover with a 54 metre operating height was introduced. This vehicle is equipped with our continually developed, digital radio-transferred camera system, a colour camera with an infrared camera and weather station (wind direction, wind force, GPS data) on a pan and tilt head. Via radio, all data is transferred with encryption to the operations command and to a mobile reception unit in the mobile command centre and is then recorded. The control of all functions also occurs through these receiving stations. Then an adaptive system by Indanet AG relays the received live data through UMTS, GSM (also possible via satellite) to the

control centre of the main fire station and command post. We have presented the system to the exhibition visitors and have explained and pointed out the advantages of the application. The exhibition visitors showed a great interest in the vehicle that was newly acquired by the fire brigade in Hannover and the sensible peripheral equipment with our highly competitive technology.

Fa. Funksysteme Meyer

Johannisstr. 4, D-06556 Artern

Phone: +49 (0) 3466 323444

Fax: +49 (0) 3466 323443

Mail: info@einsatzleitsystem.de

www.Einsatzleitsystem.de

Website is accessible in several languages, including English

Owner & CEO: Otto Meyer

EU VAT ID: DE150465422

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This camera combination with the radio-controlled functions for panning, tilting, zooming, iris, focus and day / night switching as well as the 26 x optical zoom is particularly suitable for regional surveillance, natural disasters, reconnaissance from an operations centre and search for persons. So information is collected without endangering task forces and additionally, measurements in chemical accidents can be carried out or fire pockets determined and targeted fire-fighting operations executed. With a direct line of sight between the transmitter and the receiver and a range of over 18 kilometres, data reception as well as camera control is possible with our high-performance, wireless digital radio system.



The mobile unit helmet camera combined with an infrared camera and separate bidirectional speech connection for application management is particularly suited for applications in buildings, cellars and tunnel areas as well as for rescue applications in the open terrain.

Also, when task forces with the mobile unit go into a building from the work platform of the telescopic mast or the turntable ladders, the operations command is always informed live about the current events on site because a broadcasting performance of 10 W EIRP allows for optimum results. The encrypted data of the cameras and measuring equipment can be received by several stations via radio, separately retrieved, controlled and recorded.



Our legally protected camera system can be integrated into newly purchased vehicles or retrofitted and expanded at any time into currently available vehicles.



In our references, the system is appreciated for its comprehensive, real-time transference of information as an excellent aid in optimum general situation appraisal and a vital help to emergency services for quick, correct decisions as well as the coordination of operations.

The operations command has a visual at all times (and with the mobile unit, also audio) and is simultaneously informed about real-time events at the place of installation. The recordings made during the application help with evaluations, training, with documentary proof with respect to legal entities and insurers and, of course, also for fire cause investigations.

You can also find further information on our homepage, www.Einsatzleitsystem.de.

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