

Awards winner:



MTK Trade Fair medal in 2011, 2013



„Napędy i Sterowanie” Journal Product of the Year 2012



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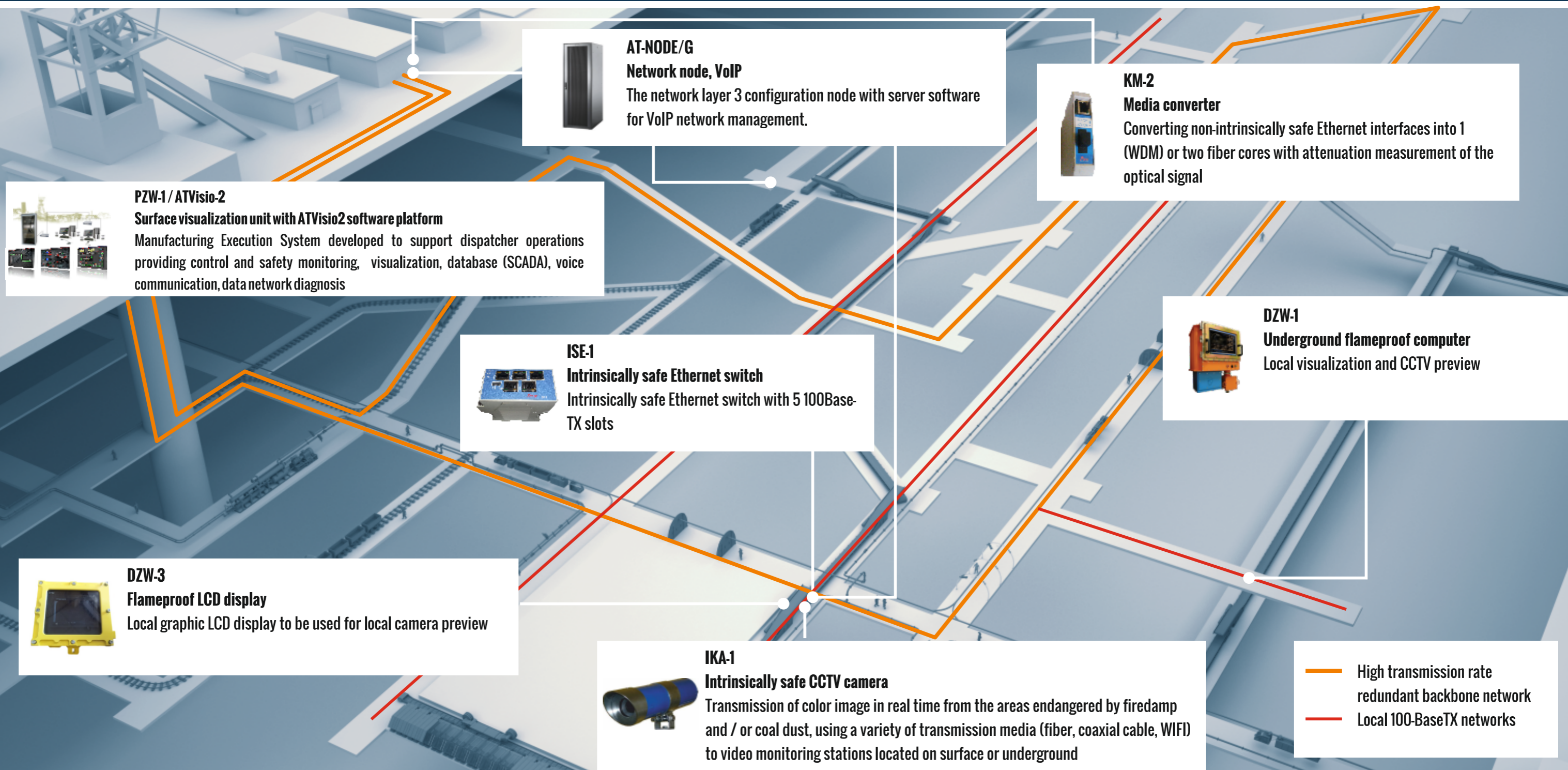
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INTRINSICALLY SAFE CCTV SYSTEM  
**AT - VIDEO**

The intrinsically safe video surveillance system AT-Video allows to capture images from areas where people presence should be limited or is even forbidden. Installation of the vision system at selected points of longwall or within the conveyors route for easy supervision over the process of extraction, to improve its safety. A characteristic feature of the system is the usage of video servers enabling the concentration of video signals from multiple cameras simultaneously, compression and transfer of digital video through fiber optic Ethernet network, coaxial cable or WIFI to surface or underground video monitoring stations. This reduces the number of used network infrastructure resources. The basic element of the vision system is an intrinsically safe camera. Intrinsically safe camera has automatically adjustable lenses which setting depends on light intensity. At very low

intensity light sensor automatically switches to black and white mode. The camera can transmit images via fiber optic, coaxial cable, twisted pair teletechnical or WIFI network. Depending on the type of installation, signal can be transmitted to flameproof preview LCD units or surface recording and data processing stations.



**AT-NODE/G**  
**Network node, VoIP**  
 The network layer 3 configuration node with server software for VoIP network management.



**KM-2**  
**Media converter**  
 Converting non-intrinsically safe Ethernet interfaces into 1 (WDM) or two fiber cores with attenuation measurement of the optical signal



**PZW-1/ATVisio-2**  
**Surface visualization unit with ATVisio2 software platform**  
 Manufacturing Execution System developed to support dispatcher operations providing control and safety monitoring, visualization, database (SCADA), voice communication, data network diagnosis



**ISE-1**  
**Intrinsically safe Ethernet switch**  
 Intrinsically safe Ethernet switch with 5 100Base-TX slots



**DZW-1**  
**Underground flameproof computer**  
 Local visualization and CCTV preview



**DZW-3**  
**Flameproof LCD display**  
 Local graphic LCD display to be used for local camera preview



**IKA-1**  
**Intrinsically safe CCTV camera**  
 Transmission of color image in real time from the areas endangered by firedamp and / or coal dust, using a variety of transmission media (fiber, coaxial cable, WIFI) to video monitoring stations located on surface or underground

— High transmission rate redundant backbone network  
 — Local 100-BaseTX networks