



Android Augmented Reality computing headset powered by Artificial Intelligence for complex problems solving for the Energy Utilities



AiR ENERGY

*where the augmented reality
meets artificial intelligence*



Technologies

Virtual intelligence & Augmented Reality



Individual electrical test limits developed for each individual element



More than 4.000.000 different power transformer models



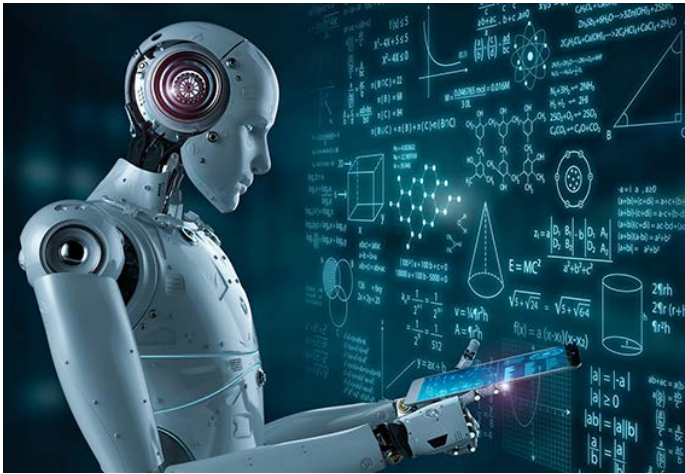
Preset editable lists for visual thermal and corona and electrical tests



GPS and substation details , overhead lines and cables traces and real images and models



QR codes containing all the relevant data for all electrical elements



The VIAR's AiR Energy is full android computing headset with see-through augmented reality display , which uses artificial intelligence to solve complex substation problems, perform visual thermal and corona inspection, keep organized records, and use artificial intelligence to analyze all the data including electrical tests, monitoring data and visual, thermal and corona data for complete high voltage element assessment.

It features market leading features such as 2 sim cards, octa core, 6GB ram 128 GB storage for .

It's body is made from Kevlar and carbon fiber, making it both durable and lightweight. The lenses are designed for maximum eye comfort, with easy and cheap on site replacement, unlike most other products currently available on the market. Its extremely hard and light body makes it a convenient and reliable tool for fieldwork.

One of the key advantages of the VIAR Air headset is its software capabilities. The headset runs on the full Android 11 version and has access to over 3 million applications.

The Energy AiR headset changes the way professionals in various industries approach remote support, perform inspections such as electrical , thermal , visual and keep records and manage assets With its advanced hardware and software capabilities, the Energy AiR headset offers a unique and innovative solution to the challenges faced by the current market.



Technologies

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FLUKE Thermal camera and Power View
UV Corona camera built in



Integrated automatic element analysis
and data evaluation

It also has artificial intelligence for complex problems solving (such as asset evaluation) most advanced AR remote support software

The traditional way of performing thermal and corona inspection is losing its pace and is not really organizable for digital records keeping and asset management. It is usually performed with 2 separate cameras capable of storing pictures on a local memory. Pictures must be additionally transferred to separate elements folders, and this is usually accessible by a single person. The cameras (especially Corona Camera) are expensive, heavy and bulky.



With the Energy AiR users can upload electrical test records to the designated test (by uploading a test report and one QR code scan). This headset can trend each parameter of the electrical tests and monitoring values and thus notify the operator by email or SMS that the limits or rate of changes have been exceeded.

The AiR headset uses the most advanced virtual intelligence capable of processing and analyzing all the relevant information and data which helps users extend equipment lifetime.

The platform of AiR headset can wirelessly connect most of the existing and new monitoring devices wirelessly thus reducing installation prices (typically several thousand EUR per installation) of highly shielded cables.

The AR smart headset has optics which are replaceable on site and provide maximum eye comfort.

It has built in Thermal camera from (Fluke) and Corona UV camera (POWER VIEW)

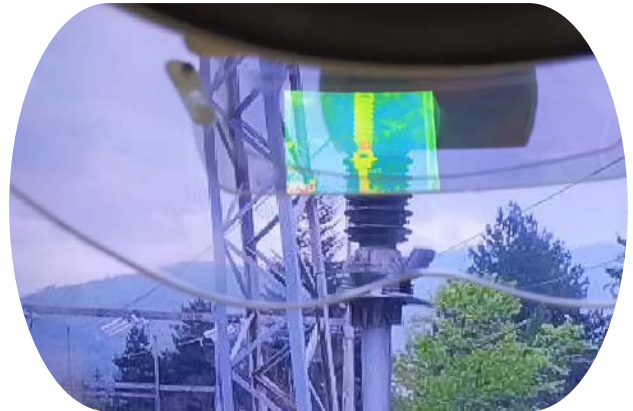
And works in the asset maintenance and inspection software of the International organization for digital substation development



One click visual thermal , corona and
electrical inspection upload



Complete maintenance Scada system with
complete wireless communication



The Energy AiR headset. It is very light and portable (helmet made from Kevlar and Carbon Fiber) and has thermal and corona camera weighing in total 700gr. It is capable of single click thermal, visual and corona inspection status update with just QR code scan and single click - it will upload the correct inspection picture to the relevant high voltage element, update status and comments and propagate the status to all relevant users inside the organization. Keeping records of Electrical inspections and trending each individual parameter has been an issue which utilities are facing, Bearing in mind that each substation typically has hundreds, even thousands of elements - it is difficult just to arrange everything in one place. No results and data analysis software exists on the market which trends each parameter, analyzes all results and gives recommendations on future inspections , capable of comprehensive asset evaluation .



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