HUARIS

AI Cloud

Industry standard laser beam profiling

HUARIS cloud system for remote laser monitoring

Technical specification:

- Long-term monitoring of beam width parameters:

Beam width parameters	FWHM, 1/e2, 1/e, 4σ
Distribution parameters	μ (mean), μ (median), σ (standard deviation), σ2 (variance)
Statistical moments (Gauss distribution only)	1, 2, 3, 4
Lorentz beam width parameters	x0 (location), y (scale), x0 (median), FWHM
Beam pointing stability	In local application and in the cloud for long term measurements
Automatic detection of beam artefacts and trends*	Yes, with cloud backed with artificial intelligence
Long term data storage*	Yes. Via cloud system in the web browser
Remote preview*	Yes. Via cloud system in the web browser

* Option available in subscription model. 3 months of free testing period.

- Powered by artificial intelligence
- Remote beam monitoring
- Long term monitoring of the laser beam parameters
- Automatic alarms
- Suggestions for preventive maintenance actions
- Remote support of experienced engineers
- Centralized source of technical information
- For laser owners and maintenance staff

V.1.0

Huaris AI Cloud is predictive maintenance for laser systems

HUARIS AI is a comprehensive metrology system which allows remote and **fully automatic diagnostics** of your laser systems. Our system is the first on the market, universal and automatic solution that allows integration with a vast majority of lasers to **predict their failures** and thus increase their availability.

Your laser beam profiler available in the cloud

The infrastructure of the product has been designed to be **highly scalable**, available 24/7 and implements solutions for processing of big quantities of data. Artificial intelligence algorithms **perform real-time beam assessment** and deliver suggestions to the user about the need and potential scope of preventive maintenance work to be done.

Huaris AI Cloud System AI-powered Huaris Cloud

Business benefits of remote monitoring

Suggestions for preventive maintenance actions

Artificial intelligence recognizes type of laser misbehavior and suggests source of issue and preventive actions.

Remote beam monitoring

Laser producers are present all over the world. Their clients require support to increase the profitability. Remote monitoring of laser beam quality is a must, and Huaris can provide this.

Centralized source of technical information

All technical information is centralized in one place: a forum within our web-based application

Category Finalist **Innovation Award**

The Huaris system has become a finalist in the Innovation Award at the Laser World of Photonicsin Munich 2022.

Powered by artificial intelligence

Using machine learning allows automatic detection of laser malfunction. Now it does not matter if you have 1 o 10 000 lasers to manage once you are supported by very smart and automatic algorithms.

Automatic alarms

Alarms and suggestions of actions are sent to you via web application, e-mail or SMS - as you wish.

Long term monitoring of the laser beam parameters

The parameters of the laser beam are now checked occasionally. The Huaris system can monitor your laser over a long period of time, analyze trends and predict its failure.

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