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## **Rheinmetall: electro-optical systems and products for optimum effectiveness and comprehensive protection**

High-performance sensors and fire control systems make it possible quickly to detect, identify and discriminate between potential threats, engaging them where necessary. At IDEX 2013 Rheinmetall's business unit Electro-optics is presenting a selection of its diverse array of products in this field.

This year's focal point is reconnaissance. At the Rheinmetall stand the cost-efficient Vingtaqs SLR observation system can be seen mounted on the Armoured Multi Purpose Vehicle (AMPV). It is able to collect and transmit target data even at long ranges.

Vingtaqs SLR's big brother is the Vingtaqs II. This combines electro-optical reconnaissance with a battlefield radar. The system is on Show at IDEX 2013 as well, mounted on a Textron TAPV at the IGG booth.

Rheinmetall is also displaying its FOI 2000 forward observer instrument for fast, precise and reliable target detection, identification, location and fire correction. It can be integrated into vehicles or deployed in dismounted mode. The armed forces of Sweden and Norway already use this device. In combination with the TYR laser target designator, the FOI 2000 will be a powerful tool for forward air controllers, enabling them to designate targets for laser-guided weapons with extremely high precision.

Furthermore, visitors can take a look at the Group's trusted laser pointers, laser target marker and laser light modules, including the Vario-Ray (LLM-VR), and the LLM01, which is in service with numerous armed forces and law enforcement agencies world wide. The Group's ZEFF identification friend-foe system, known as the Dismounted Soldier Identification Device/DSID, rounds out the division's array of products on display, together with its Multi-Ray fire control unit.

The new Multi-Ray is substantially more compact and lighter than its FeLVis forerunner, and is suitable for low- and medium-velocity 40mm ammunition. It features a laser rangefinder, is able to detect if the weapon is at an incline, and also calculates the necessary lead. In addition, it is equipped with a laser pointer, an IR laser pointer invisible to the human eye, an electronically focusable IR illuminator and an optional identification friend/foe device.

Apart from the Saphir 9.6 aiming device and a fire control unit, the Vingmate aiming and fire control system features a combined tripod and gun cradle. It is thus suitable for various 40mm automatic grenade launchers such as the MK19 and HK GMG but also for heavy .50 cal. machine guns like the FN M2, or even 20mm automatic cannon such as the GAM B01. Both Multi-Ray and Vingmate are designed to permit programming of airburst rounds via an infrared laser beam as they leave the barrel. Along with the Vingmate fire control system, at IDEX 2013 Rheinmetall will be displaying the VingSim, its accompanying training device. The Mk-47 version of the VingSim can also be seen at the IGG stand.

The Rheinmetall products on display at IDEX 2013 underscore once again the versatility of a globally leading systems supplier and longstanding partner of the world's armed forces and security services.

**For more information, please contact:**

**Oliver Hoffmann**

**Head of Public Relations**

**Rheinmetall AG**

**Tel.: +49-(0)211-473 4748**

**[oliver.hoffmann@rheinmetall.com](mailto:oliver.hoffmann@rheinmetall.com)**