

Ukrainian optical module production



Overview

Ukraine has increased fiber-optic drone production, lowering costs and improving military access. The “Silkworm” fiber optic module on a drone. Photo: Unmanned Systems Forces. Ukraine's Unmanned Systems Forces have introduced. In a significant stride towards bolstering its defense capabilities, Ukraine has successfully developed and tested the “Silkworm” fiber optic modules, designed for seamless integration into various types of drones – aerial, land, and maritime. This indigenous innovation signals a major leap in. AITAF provides end-to-end optical communication solutions, structured cabling, ODN, optical modules, fiber testing instruments, data center networks, base station energy, smart city communications. Vyriy Drones have been making FPVs for over two. Embedded engineers collaborate directly with private-sector developers, and they constantly refine low-cost fiber-optic and radio frequency (RF) command-and-control solutions for kinetic drone missions, with particular emphasis on deep strikes and frontline operations. Russia, by contrast, fields. Ukrainian company 3DTech, which specializes in manufacturing various types of FPV drones, told Defense Express that its new 25- and 30-kilometer-range signal reels have successfully passed internal tests and are now in full-scale production, the outlet reported on May 1.



Article Content

Ukraine Launches Serial Production of 30 km Fiber-Optic Coils for

Ukrainian company 3DTech has begun serial production of the country's first 30 km fiber-optic coil for FPV drones. The

Ukraine Is Making FPV Drones Without Chinese Parts And At ...

FPV drone makers always relied on Chinese components, with all the supply chain issues that entails. Now Ukrainian

Optical Modules Market Size, Growth Trends & Forecast

Optical Modules Market size was valued at USD 3.5 billion in 2025 & is estimated to reach USD 8.2 billion by 2034,

S& PF MODUL

The S& PF MODUL head office is located in Kyiv – the capital of Ukraine. Production departments are located in Sumy region. During

TechEx: production of fiber-optic drones according to NATO standards ...

TechEx is the first company in Ukraine to launch mass production of FPV drones on fiber optics, successfully codified

Optical Fiber Image Data Module for FPV Drone Transmission

What is the best way to transmit FPV drone video in high-interference areas? The optical fiber image data module, commonly known

How Ukraine's Drone Innovation Reversed Russia's Momentum

Ukraine's continuing innovation in emerging capabilities—such as longer-range systems operating deeper into

Ukraine develops fiber-optic module fitting for all drones, integrates ...

Ukraine has increased fiber-optic drone production, lowering costs and improving military access. While China

Ukrainian Unmanned Systems Forces Test Advanced Shovkopriad Fiber-Optic ...

Ukraine continues to enhance its drone warfare capabilities with the introduction of the Shovkopriad fiber-optic

Ukraine: Optical Elements Market Report

This report analyzes the Ukrainian optical elements market and its size, structure, production, prices, and trade. Visit to learn more.

Module-Ukraine — Information about Ukrainian iron and steel ...

Module-Ukraine LLC specializes in production of hot-dip galvanized coil, including pre-painted hot-dip galvanized, rolled

Ukraine Pioneers Independent Drone Technology with "Silkworm"

By establishing domestic production facilities capable of winding finished optical fiber onto spools, Ukraine has not

Ukraine's drone makers are turning up production for a weapon they

Both Ukraine and Russia are operating fiber-optic drones, which can't be jammed with traditional electronic warfare

10 companies in the optical transceiver industry chain 2024

The rapid development of AIGC has promoted the demand for 800G optical modules, and the entire industrial chain

Optical Fiber Image Data Module for FPV Drone: A ...

This blog explores the role of Ukrainian drone wires, specifically optical fiber image data modules, in enhancing FPV drone

Inside Ukrainian Operation Making Unjammable, Explosive-Packed

Business Insider visited a Ukrainian company making fiber-optic drones in Kyiv. This is what it's like inside the operation.

Sky-High Ambitions: 10 Ukrainian Drone Factories to Scale Across

The Ukrainian defense tech ecosystem is no longer just “local” – it is becoming a Pan-European powerhouse. With a

Optics in Ukraine: Glorious Past, Uncertain Future

Invasion and war have disrupted Ukrainian science—and rebuilding it deserves the world's attention and resources.

Ukrainian Optical Module Factory

AITAF provides end-to-end optical communication solutions, structured cabling, ODN, optical modules, fiber testing instruments,

Unmanned Systems Forces tested Ukrainian fiber optic modules

The Unmanned Systems Forces (USF) tested the Ukrainian-made universal fiber optic modules «Silkworm». This is

Optical Modules Market Research Report 2034

Key Takeaways: Optical Modules Market Global optical modules market valued at \$14.8 billion in 2025 Expected to reach \$39.6

Ukraine Pioneers Independent Drone Technology with "Silkworm"

In a significant stride towards bolstering its defense capabilities, Ukraine has successfully developed and tested the

Ukraine Is Making FPV Drones Without Chinese Parts And At ...

At a time when reducing imports and building national capacity is become ever more important, Ukraine has achieved

A Latvian company is supplying fiber-optic drones, and Ukrainian ...

In Latvia, private funding from Ardelta led to the creation of Ardlat, a startup that produces FPV drones with fiber-optic

Optics in Ukraine: Glorious Past, Uncertain Future

Feature Optics in Ukraine: Glorious Past, Uncertain Future Svetlana V. Boriskina
Invasion and war have disrupted Ukrainian

Ukraine Optic Fiber: Real-World Performance of the Drone Fiber Optic ...

Can Ukraine-based drone operators use this fiber optic module to maintain stable video feeds over 5 km without signal loss? Click

Ukraine has developed the Silkworm fiber optic modules for all types

Development of fiber optic modules in Ukraine In early January, it was reported that the cost of fiber optic drones has

Ukraine Begins Mass Production of 30-Kilometer Fiber-Optic Drone Reel

On April 7, Ukrainian President Volodymyr Zelenskyy announced significant progress in the country's drone production

Production of fibre optic cables | Uteks Ukraine

Uteks Ukraine is a leader in the production of fiberglass reinforced plastic sheeting in Ukraine. Own production,

Ukraine's DIY drones defy Russian jamming – GIS Reports

In a cluttered workshop in central Ukraine, I was handed what looked like a standard fiber-optic spool for a tethered

Ukraine ramps up production of fiber-optic and long-range strike drones

Ukraine has bolstered its drone arsenal with more than 20 new variants in 2025, with significant focus on fiber-optic

"Little by little away from China" — Inside Ukraine's new mass ...

From the dawn of Ukraine's first-person-view drone industry up to a year ago, producers purchased almost all of the

Ukrainian Defense Industry

Ukrainian Defense Industry, also known as Ukroboronprom, is the largest arms manufacturer in Ukraine

Defence Producers in Ukraine

Ukraine's defence ecosystem includes over 900 enterprises. Every such facility is considered a legitimate target by

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