FS TECHNOLOGY

# FST NOVUS

# Protective housing with the dry cleaning system for optic and laser devices

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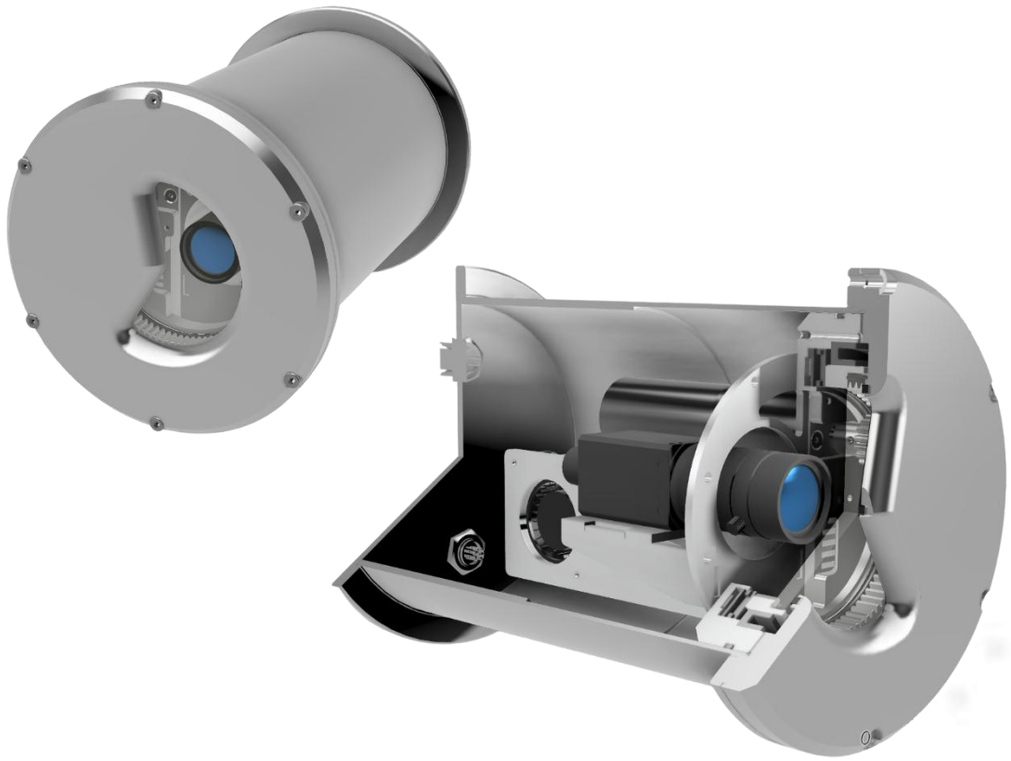
# FST NOVUS

**Protective housing with the dry cleaning system for optic and laser devices**



## Description FST NOVUS:

- Designed to accommodate various built-in devices, including: video cameras, laser rangefinders and level gauges, etc.
- Ensures continuous operation of built-in devices due to the **Dry Cleaning System of the viewing glass and thermal regulation**.
- The cleaning system effectively removes any contaminants from the viewing window.
- It has confirmation of compliance with the requirements of **TR CU 004/2011**, as well as the requirements of **GOST 24754-2013, GOST 30852.20-2002** (RN1 – **standard mining construction**).

## The system advantages and parameters:

- Versatility
- Dry cleaning system
- Degree of protection IP66
- Impact-resistant design (glass strength can withstand impacts up to 10 J)
- Temperature range from -45 °C to +50 °C
- Power supply 24V
- Service interval 5 000 cycles

## Application field:

- External video monitoring on moving equipment operating in difficult conditions
- Ensuring continuous data acquisition from optical and other devices in remote control systems and robotic systems
- Ensuring continuous video data acquisition in stationary computer vision (CV) systems

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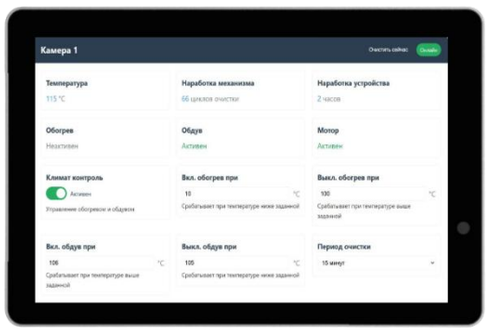
# INFORMATION
## About the cost and terms of delivery of products

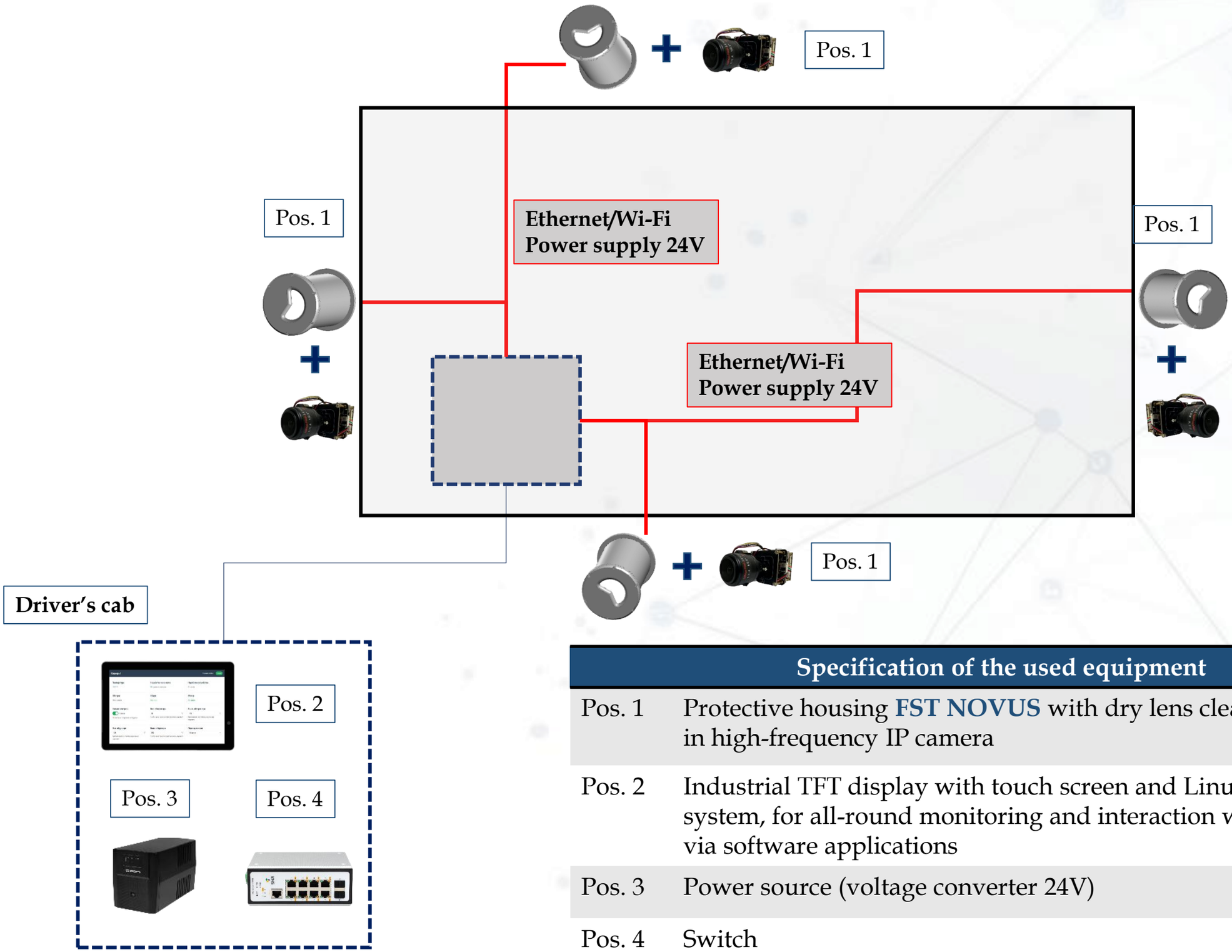
**Protective housing FST Novus (without camera)**
Configuration: No camera, Own software
Product price - 6’000 USD
EXW Kemerovo, Russia
Production time – 10 weeks

**Protective housing FST Novus (with camera)**
Configuration: Camera, Own software
Product price – 7’000 USD
EXW Kemerovo, Russia
Production time – 10 weeks




**Industrial display (computer) for image reception**
Configuration: Software Linux
Product price – 1’500 USD
EXW Kemerovo, Russia
Production time – 10 weeks

## FST NOVUS An example of an effective solution for mobile equipment: Architectural diagram of the monitoring system (all-round view) (dump truck)




| Specification of the used equipment | |
|---|---|
| Pos. 1 | Protective housing **FST NOVUS** with dry lens cleaning and built-in high-frequency IP camera |
| Pos. 2 | Industrial TFT display with touch screen and Linux operating system, for all-round monitoring and interaction with the system via software applications |
| Pos. 3 | Power source (voltage converter 24V) |
| Pos. 4 | Switch |

# FST NOVUS Example of an effective solution for a stationary object: Architectural diagram for the skip shaft feed bin fill level monitoring system

| Specification of used equipment | |
|---|---|
| Pos. 1 | Protective housing **FST NOVUS with dry lens cleaning and built-in IP camera** |
| Pos. 2 | Connection point for power supply and conversion 24V |
| Pos. 3 | Switch |
| Pos. 4 | Video analysis server |
| Pos. 5 | Analog output module |
| Pos. 6 | Loading node controller |
| Pos. 7 | Monitor for viewing images from cameras, RN (standard mining) construction |