



**JAHNKE**  
DEFENCE



A new  
generation of  
image quality

---

The specialist  
for night vision  
technology and  
military  
equipment

---



# Contents

- 01** Company - Made in Germany, born in Allershausen
- 02** Company History
- 03** Night Vision Monocular, Binoculars & Goggles - DJ-8 1x25
- 04** Night Vision scope - Jahnke DJ-8 NZG
- 05** Thermal Imaging - Jahnke Thermal Statement and Thermal PULS50
- 06** Scope - Jahnke Noctis
- 07** Jahnke red dot sight and reflex sight
- 08** Thermal Imaging Drone - Jahnke Warrior
- 09** VTOL Unmanned Aerial Vehicle - Jahnke Ghost UB-4
- 10** Data sheets - Jahnke Products



01

## Company - Made in Germany, born in Allershausen

Nachtsichttechnik Jahnke is successful in the field of night vision technology for 30 years - initially in sales and further development. Since 1997, the company has been manufacturing night vision technology very successfully itself and is now a leading manufacturer in the civilian sector and also deep established in the military sector with its subsidiary Jahnke Defence. Every single one of the night vision devices is painstakingly handcrafted in the factory in Allershausen, Bavaria.

The name JAHNKE stands for:

- o Leading in Europe
- o MADE IN GERMANY 
- o Sophisticated technology tailored to the customers needs
- o Optical and technical design by experienced engineers
- o Extremely high resale value
- o Extreme durability
- o Longtime Service provided
- o Technical maturity and high design standards
- o High image value
- o Over 80,000 satisfied customers worldwide





# Support of the Ukraine

Nachtsichttechnik Jahnke began supplying Ukraine with night vision and thermal imaging equipment at an early stage. Since then, we have been regularly delivering our equipment to Ukraine, where they help the soldiers defend their country. Again and again, we receive pictures of our devices supporting the troops there.



Company History



03  
DJ-8 1x25  
Monocular,  
Binoculars and  
Goggles

---





## Jahnke DJ-8 - one device with a versatile fields of application



The DJ-8 can be used quickly on any weapon with standardised Picatinny rails in combination with reflex sights. Due to the special mounting, a point of impact deviation by the night vision device is excluded. The mount also features a quick-release mounting. Furthermore, DJ-8 lenses can be exchanged here with a magnification of up to 7.5x.



The DJ-8 1x25 Monocular is a versatile night vision device. From **hand-held observation**, to mounting on **helmet** or **head** mounts, to **firing**, the DJ-8 1x25's range of use includes.



DJ-8 1x25 binocular

The DJ-8 can be quickly and intuitively attached to a helmet mount or head mount for observation with just one hand.



DJ-8 1x25 monocular

03  
DJ-8 1x25  
**Monocular**

The DJ-8 1x25 Monocular is a versatile night vision device. From hand-held observation, to mounting on helmet or head mounts, to firing, the DJ-8 1x25's range of use includes.

In contrast to monocular night vision devices from other manufacturers, the devices of the DJ-8 series are characterized - in addition to an outstanding image quality - by the possibility of using interchangeable lenses, a distance eyepiece to reduce eye injury and the world's first magnesium alloy housing, which ensures minimum weight with maximum strength. Technology and quality - Made in Germany



DJ-8 1x25 monocular  
with helmet mounting



DJ-8 1x25 monocular  
with head mounting



03  
DJ-8 1x25  
**Binoculars**

The DJ-8 1x25 **Binoculars** is a night vision device with two intensifier tubes which allows a 3D view compared to monocular devices. As all our night vision devices it is built with an ultra-light magnesium housing for maximum comfort when used with a helmet or a head mount.



DJ-8 1x25 Binoculars



DJ-8 1x25 Binoculars



Jahnke night vision goggles



04  
Night vision  
scope - Jahnke  
DJ-8 NZG

---





04

## Night vision scope DJ-8 NZG 1-6x48 and 1-6x58

- o powerful night vision scope with a **magnification of 1 - 6x**
- o extremely **shock-resistant**
- o 100% **repeatability** due to picatinny mounting
- o Jahnke **Premium** or Jahnke Premium **Monochrom®**
- o Worldwide first and exclusive **ultra-light magnesium alloy housing**



DJ-8 NZG 1-6x48



DJ-8 NZG 1-6x58

05  
Thermal  
Imaging -  
Jahnke Thermal  
Statement

---





05

## Thermal Imaging - Jahnke Thermal Statement

Optimised and designed for the Ukrainian army by Nachtsichttechnik Jahnke. Experience the Jahnke Thermal Statement with **new patented software** for a technically brilliantly sophisticated viewing experience. The Jahnke Thermal Statement is the **world's first** thermal imaging camera with a **Super Silencer** function, which **reduces calibration noise** to an imperceptible minimum. This prevents the breaking of silence at night and helps to remain undetected. Detailed resolution, more contrast and better image quality due to a large 640x480 VOx sensor with a wide Field of view.

## Jahnke Thermal Statement



Jahnke Thermal Statement can be produced in specific army designs - s. picture above in ukrainian optic



05

## Thermal Imaging - Jahnke Thermal Puls 50

Our thermal imaging camera Jahnke Thermal PULS 50 for long distance observation with an **50/1.2 lens** and **VOx sensor 400x300**.

Using the digital smooth zoom, the **3.3x optical magnification** can be increased in fine increments up to a maximum of 13.2x, allowing vehicles to be detected at up to **3.000m**





06  
Scope -  
Jahnke Noctis

---



## 06 Scope - Jahnke Noctis

A powerful rifle scope with a **magnification of 1 - 6x** with a wide range of uses. With a length of only **19.3 cm**, the Jahnke Noctis riflescope has *broken the magic barrier of 20 cm* for the first time in the premium riflescope segment with a maximum field of view of **30 meters**. Due to its construction, it is **extremely shock-resistant** and perfectly suited for the use of attachment devices. In addition, the Jahnke Noctis is also available with **reflex sight** due to its tactical mount for fast target acquisition with maximum field of view.



Jahnke Noctis 1-6x28  
in combination with a  
reflex sight





07  
Jahnke Red dot  
sight

---



07  
Jahnke red  
dot sight



---

The Jahnke red dot sight is a compact holographic reflex sight **suitable for night vision** devices like the Jahnke Paradoxon. The reticle is also **parallax-free** and ensures **fast target acquisition** at any situation. The rim length required for mounting is only 70mm. The Jahnke red dot sight requires only one CR123 lithium battery for power supply - battery life approx. **600 hours**.



07

## Jahnke reflex sight

The **Jahnke Reflex Sight** enables extremely **fast target acquisition** with a wide field of view. Due to the motion sensor function, the reflex sight **switches off automatically** when not in use, resulting in a long operating time (**3000 h at middle setting**) and the device is thus always ready. The reflex sight can be mounted alone on a weapon or can be combined with other sights like our Jahnke Noctis 1-6x28 due to the tactical Picatinny mounting.



Jahnke Noctis 1-6x28  
in combination with a  
reflex sight



Jahnke Noctis 1-6x28  
in combination with a  
reflex sight

08

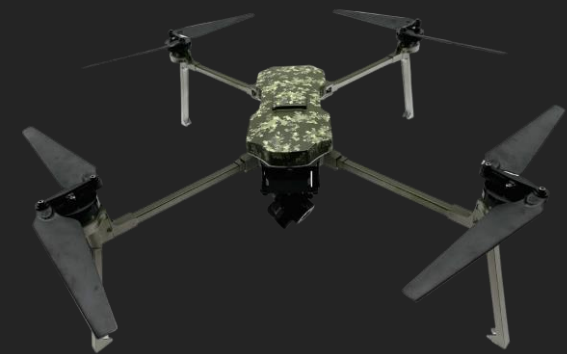
Thermal Imaging  
Drone – Jahnke  
Warrior

---

08

## Thermal Imaging Drone – Jahnke Warrior

Our new thermal imaging drone **Jahnke Warrior** was developed for adverse conditions with **long flight times** and for long distances even in cold weather. In addition to the thermal imaging camera, the Jahnke Warrior also has a camera for daytime images. It can even **carry up to 500 g** of extra weight over a longer period of time, such as ammunition or other important small items. **People** can be identified at **500 metres** and **vehicles** even at **1000 metres**. Users can efficiently control up to 6 drones simultaneously.



09

VTOL Unmanned  
Aerial Vehicle -  
Jahnke Ghost  
UB-4

---



09

## VTOL Unmanned Aerial Vehicle - Jahnke Ghost UB-4

Jahnke Ghost UB-4 is a VTOL (vertical take-off and landing) fixed-wing UAV. It adopts the composite wing layout form of fixed wing combined with quadrotor. It has the characteristics of fixed-wing UAV's flight time (2-3 h), fast speed (up to 120 km/h), long distance (control radius of 30 km) and VTOL of rotor UAV. There is no special requirement for the takeoff site, and it can adapt to a variety of complex environments such as mountains and deep forest, making it an ideal choice for industrial UAVs. Jahnke Ghost UB-4 can be used for long-distance routine and emergency inspection of power grid and general infrastructure which can greatly improve inspection efficiency and inspection quality. Specifically can be applied to the channel inspection, cross inspection, tree barrier inspection and three-dimensional visualization inspection. Jahnke Ghost is able to transport up to 10 kg of ammunition or other important materials.



# 10 Technical specifications

---



# DJ-8 1x25



DJ-8 1x25



DJ-8 1x25 with helmet mounting



DJ-8 1x25 with head mounting

Name	Jahnke DJ-8 1x25 Monocular	Jahnke DJ-8 1x25 Bioculars
Country of origin	Germany	
Housing material	Magnesium	
Field of view	42°	
Lens	25mm 1:1,0	2x 25mm 1:1,0
Diopter adjustment	-5 to +5	
Eye distance	20 - 45mm	
Operating temperature	-40°C to +50°C	
Operating time	approx. 60h	
Battery	1x Lithium CR2	2x Lithium CR2
Lenght	115 mm	
Weight	315g	740g
Image intensifier tube	Jahnke Premium or Jahnke Premium Monochrom®	2x Jahnke Premium or 2x Jahnke Premium Monochrom®
Auto Gating	Yes	



# Jahnke DJ-8 NZG



DJ-8 NZG 1-6x48

DJ-8 NZG 1-6x58

Technical specifications		
<b>Name</b>	DJ-8 NZG 1x48	DJ-8 NZG 1x58
<b>Type</b>	Riflescope	
<b>Anwendungsbereich</b>	Aiming	
<b>Length</b>	39,8 cm	44,5 cm
<b>Weight</b>	1140 g	1270 g
<b>Housing</b>	Magnesium / Aluminium	
<b>Magnification</b>	1-6x	
<b>Zoom</b>	2 m to ∞	
<b>Effective lens opening (entrance pupil)</b>	48mm	58mm
<b>Effective eyepiece opening (exit pupil)</b>	31,5 mm	
<b>Mounting</b>	Tactical picatinny	
<b>Fluorescent operating elements</b>	yes	
<b>Power Supply</b>	Night vision: Lithium Batterie CR2 Aiming point: CR2032	
<b>Operating time</b>	tube: approx. 60h	
<b>Operating temperature</b>	-40 °C to +50 °C	
<b>Intensifier tubes</b>	Jahnke Premium or Jahnke Premium Monochrom®	
<b>Norm</b>	DIN ISO 9022	





# Jahnke Thermal imaging



Thermal Statement



Thermal Statement



Thermal Puls50

Technical specifications	Thermal Statement	Thermal Puls50
<b>Detector</b>	Vanadium Oxid (VOx) detector	Vanadium Oxid (VOx) detector
<b>Resolution Ratio</b>	640x480 @12µm	400x300 @ 17µm
<b>NETD (Thermal sensitivity)</b>	≤30mk @F1.0 25°C	≤50mk @F1.0 25°C
<b>Lens</b>	35mm F1.0 (focusable)	50mm F1.2 (focusable)
<b>Optical Magnification</b>	2x	3,3x
<b>Digital Zoom</b>	1x-8x	1x-4x
<b>Field Angle</b>	12.5×9.4	7.8°×5.8°
<b>Detection Range (vehicle)</b>	2.800m	3.000m
<b>Color modes</b>	White Hot, Black Hot, Iron Red, Blue Hot, Red Hot, Green Hot	White Hot, Black Hot, Iron Red, Blue Hot, Red Hot
<b>Output frame frequenc</b>	50Hz	50Hz
<b>Battery</b>	Li-ion battery (2×18650, 6000mAh)	Li-ion battery (2×18650, 6000mAh)
<b>Operating temperature:</b>	-20°C to +50°C	-20°C to +50°C
<b>Operating Time</b>	Battery continuous working time ≥ 4.5h @ 25 °C	Battery continuous working time ≥ 5h @ 25 °C
<b>Display resolution</b>	LCOS 1280x960	LCOS 1280x960
<b>Weight</b>	560g	555g
<b>Dimensions</b>	214mm × 65mm × 7 mm	214mm × 65mm × 71mm
<b>Memory capacity</b>	32GB (till 512GB possible)	16GB (till 512GB possible)



# Jahnke Noctis 1-6x28



Technical specifications	
<b>Weight</b>	450g
<b>Magnification</b>	1-6x
<b>Diopter compensation</b>	-3 to +3
<b>Lens diameter</b>	28mm
<b>Field of view at 100m (in m)</b>	30-5m
<b>Interpupillary distance:</b>	119-125mm
<b>Reticle:</b>	mil dot
<b>Illuminated dot:</b>	red and green
<b>Reticle image plane:</b>	1st image plane
<b>Reticle adjustment / click:</b>	½ MOA
<b>Parallax compensation:</b>	no
<b>Surface finish:</b>	fine black
<b>Center tube diameter:</b>	35mm
<b>Objective tube diameter:</b>	35mm
<b>Eyepiece diameter:</b>	41.3mm
<b>Total length:</b>	193mm
<b>Mounting</b>	tactical Picatinny rail



# Jahnke red dot sight and reflex sight



Jahnke red dot sight



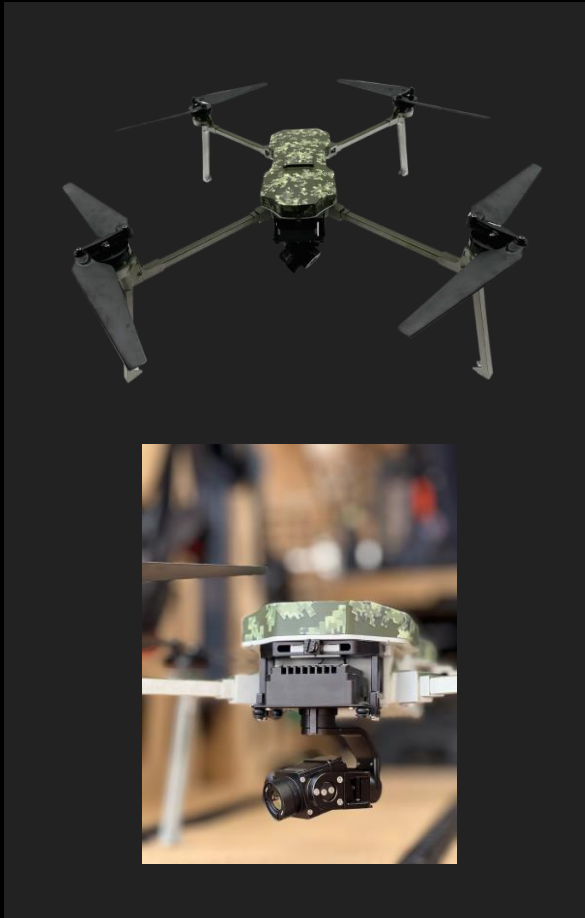
Jahnke reflex sight  
in combination with Jahnke Noctis 1-6x28

Technical specifications		
	Red dot sight	Reflex sight
<b>Reticle Colour</b>	Red and green	red
<b>Mounting</b>	Picatinny mounting	
<b>Night vision option</b>	Yes	
<b>Waterproof</b>	dive proof up to approx. 10m	dive proof up to approx. 2m
<b>Switch-off</b>	automatic switch-off	
<b>Power supply</b>	CR123 battery	CR2032 battery
<b>Weight with battery</b>	243g	55g
<b>Dimensions</b>	91x60x71mm	46x30x30mm





# Jahnke Warrior



Item	Jahnke Warrior
Takeoff weight	1600±200g
Flight with standard camera	68 minutes
Flight with payload	30 minutes with 500g payload
Max flight distance	40km ( <b>without wind</b> )
Wind resistance	12m/s
Max flight speed	17m/s
Max working altitude	5000m
Working temperature	-20°C - 40°C
Hover accuracy	0.5m
Front and rear obstacle avoidance function	No currently but will be YES 2 months later
Visual positioning	No
Remote control distance	10km
Remote control options	6 inch cellphone, 11 inch tablet, 7 inch Integrated remote control (1000nit brightness) or customization
Remote control function	Multi-drone remote control, one station for two drones relaying for each other, non-line-of-sight operation function
Remote control working time	3h
Target reconnaissance and positioning	Provide target location data and realize real-time mapping of 3D-GIS. 500m to identify people, 1000m to identify car
Indoor flight function	No
Transmission frequency	2.4GHz, 1.4GHz or customization
Transmission distance	10km
Image delay	250mS
Anti-navigation interference capability when GPS/BD are all suppressed	Hover, take on, return back
Night vision ability	ordinary HD payload camera, night vision thermal imaging payload camera, color and night vision dual light payload camera or customization
Customization	Yes





# VTOL Unmanned Aerial Vehicle - Jahnke Ghost UB-4



Item	Jahnke Ghost UB-4
Type	VTOL (vertical take-off and landing)
Payload	10 kg
Max. Takeoff Weight	38 kg
No-load flight time	2-3 h
Wind resitance	Level 7
Max operating speed	120 km/h
Cruising speed	90 km/h
Maximum flight height	2k (Plain)
Maximum take-off altitude	2.500 m above sea level
Control radius	Standard 30km
Body Material	Carbon fiber somposites
Wingspan	3530 mm
Length	2450 mm
Layout form	Double tail brace + back push





MADE IN GERMANY

**JAHNKE DEFENCE/ NACHTSICHTTECHNIK JAHNKE BERLIN**

Kurfürstendamm 130 | 10711 Berlin

**NACHTSICHTTECHNIK JAHNKE ALLERSHAUSEN**

Auenstraße 5b | 85391 Allershausen

Web: [www.nachtsichttechnik-jahnke.de](http://www.nachtsichttechnik-jahnke.de)

E-Mail: [info@nachtsichttechnik-jahnke.de](mailto:info@nachtsichttechnik-jahnke.de)