Price
€989 · 989 – 18899 · €18899

Manufacturer
- Pulsar (3)
- Swarovski (1)
- Leica (2)
- Zeiss (2)
- Steiner (1)
- Andres Defence (3)
- AGM Global Vision (2)
- Burris (2)
- Dipol (2)
- Fortuna (14)
- GSCI (3)
- Guide (3)
- GPO (1)
- Hikmicro (13)
- Heimdall (1)
- IRay (8)
- Infratech (2)
- Liemke (6)
- Night Pearl (4)
- Nitehog (3)
- PARD (2)

Shipping time
- Ships in 4-7 days (1)
- Ships in 2 weeks (2)
- Ships in 2-4 weeks (14)
- Ships in 1 month or more (61)

Variable magnification
- No (52)
- Yes (17)

Minimal magnification. 1x – 5x

Maximum magnification. 1x – 16x

Lens diameter. 13 mm – 100 mm

Field of view... 10m/1000m – 536m/1000m

Max. field of view... 0m/1000m – 536m/1000m · Find

Close focus. 0m – 20m

Range of detection. 0m – 250000m

Thermal sensor type
- Uncooled FPA (10)
- ASi Uncooled (7)
- Microbolometer (22)
- VOx Uncooled (22)
- VOx Ceramic (2)
- Uncooled (4)

Thermal sensor pixel count. 0MP – 384MP

Pixel pitch. 12μm – 17μm

Refresh Rate. 25Hz – 60Hz

Display type
- AMOLED (25)
- OLED (46)
- - (1)
- LCOS (1)
- Micro - HD (1)
- Micro OLED (3)

Display pixel count. 0MP – 6MP

Image Capture
- - (6)
- No (14)
- Yes (49)
- Optional (3)

Video recording
- - (9)
- No (16)
- Yes (49)

Length. 57 mm – 239 mm

Height. 46 mm – 239 mm

Weight. 130g – 1400g

Material
- - (15)
- Magnesium, Rubber (1)
- Plastic, rubber (2)
- Magnesium alloy (6)

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Color
- Green (3)
- Black (73)
- Black - Matte (1)
- Birch (1)

Made in
- China (30)
- Germany (11)
- Austria (1)
- Czech Republic (3)
- Canada (3)
- Russia (16)
- Lithuania (1)
- - (13)

Special features
- Fully multicoated (7)
- Variable (8)
- Shockproof (35)
- Central focusing (1)
- Rangefinder (1)
- Fogproof (51)
- Waterproof (58)
- Fast focus (3)
- Parallax adjustment (1)
- Rubberized body (19)

Thermal Clip-On Series
- Night Pearl SEER (4)

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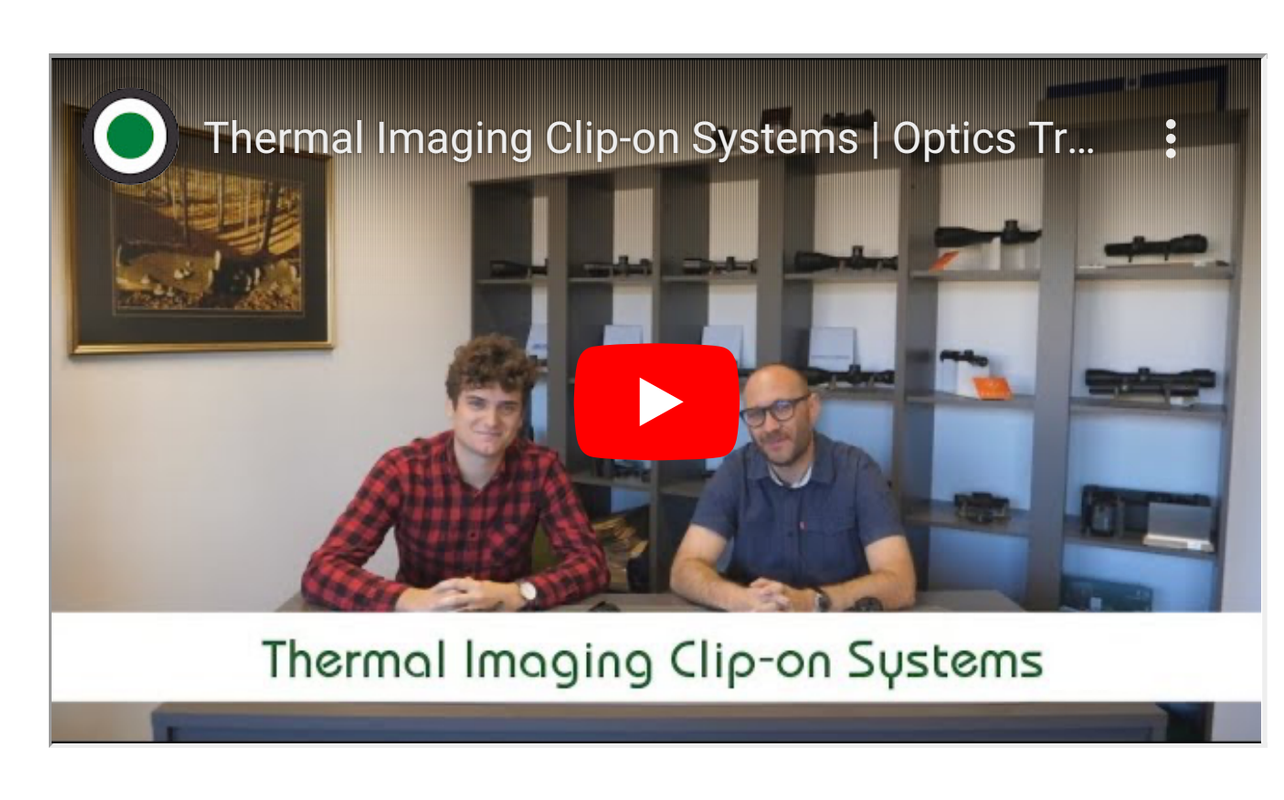
Thermal Clip-On Systems

Thermal imaging is gaining **popularity** since it offers great advantages for **night-time observations**. Especially the **clip-on devices** are widely used since **clipping** of the device on the **objective bell** of the **day time optics** is very **simple** and **fast**.



Benefits of Thermal Clip-on systems

Some of the **benefits** of using thermal clip on systems:

- **Transforming conventional devices** into a **thermal optics**, which keeps the **point of impact** on the **same place**.
- The user can also use the **same rifle scope**, on which he is trained, with the same reticle, which can still be used for bullet drop when shooting on **longer distances**.
- A thermal clip-on device can also be used on other optics such as **binoculars** and **monoculars**, only for **observing purposes**.

Thermal clip-ons compared to stand-alone thermal rifle scopes

Usually, thermal imaging clip on devices have a **lower sensor resolution** when compared to **thermal rifle scopes**, but clip-on´s offer all the **usability** of the normal scope. This is especially handy when using the **same** rifle for **daytime hunting** and **night hunt**.

The **shooting position** stays **the same** due to the **longer eye-relief** and does not change as if you would mount a thermal rifle scope.

Attaching a thermal clip-on device is also much **easier** than changing the **entire scope on the rifle**, which can sometimes cause also a point of impact change.

Whatsoever, a bit of the **optical performance gets lost**, but this is minimal and, in most cases, it is **not noticeable**.

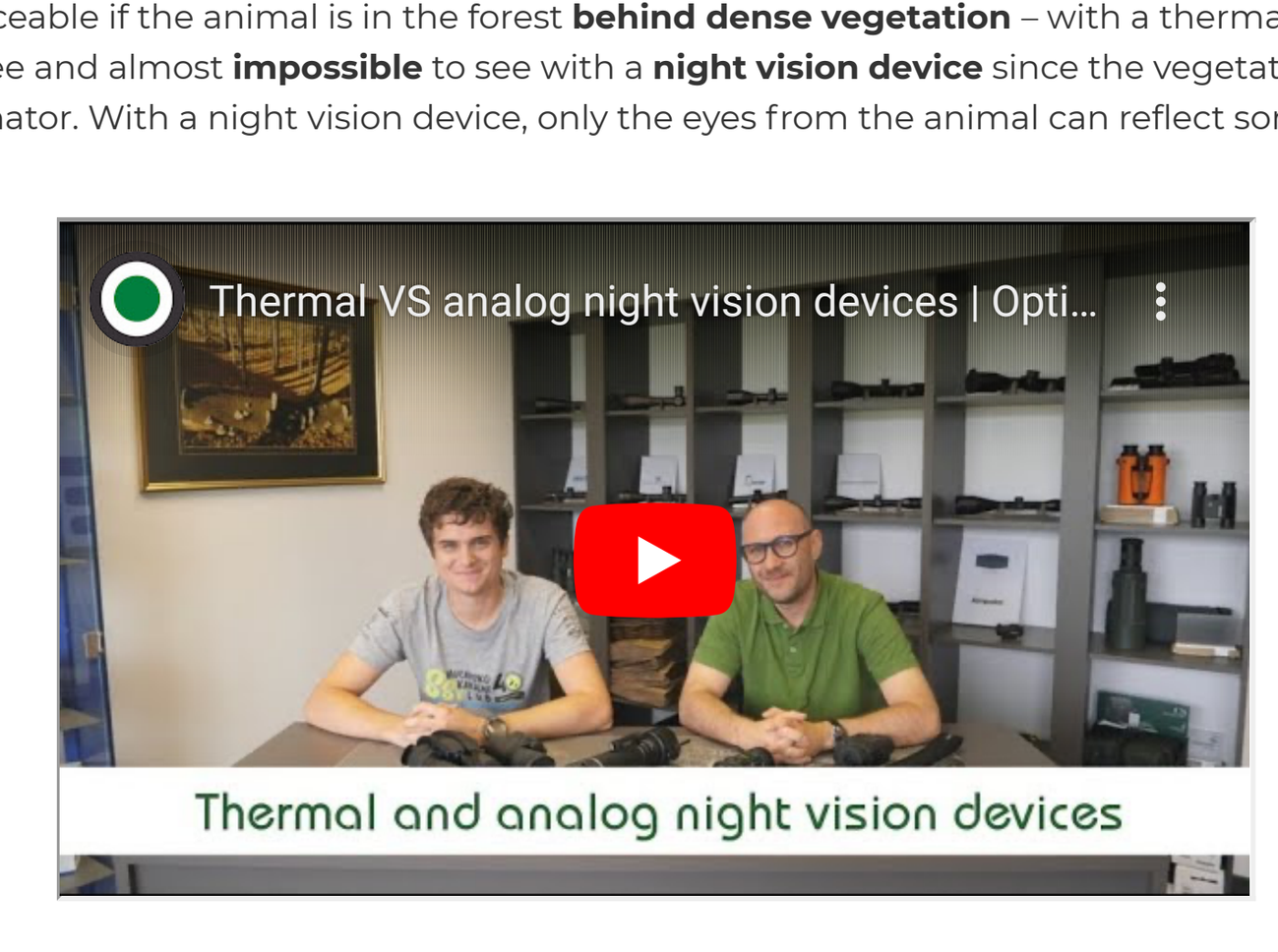
Thermal clip-on's are allowed for purchase into many **EU countries** where stand-alone **thermal scopes are not allowed**. The **price** is also **lower** than the price of thermal rifle scopes, which makes them also more interesting for many hunters.

What is the difference between thermal and night vision clip-on

There are many advantages but also the disadvantages of thermal clip-on devices against **night vision**.

- The main advantage is the much **easier detection** of animals even in complete darkness,
- and detection on much **longer distances**.

This is especially noticeable if the animal is in the forest **behind dense vegetation** – with a thermal clip-on device these animals are easy to see and almost **impossible** to see with a **night vision device** since the vegetation **reflects the IR light** from the illuminator. With a night vision device, only the eyes from the animal can reflect some light if it looks straight towards you.



Main thermal clip-on scopes characteristics

Here we get to another advantage of the thermal vision devices – they do **not need any additional IR light** in **complete darkness**. A night vision device does if there are no light sources in the area (moon, stars, road lighting, etc.). An **additional IR light** can, whatsoever, be **visible for some animals**, so they get scared and can **run** away if an IR light **under 850nm** is used.

With the thermal clip-on colder objects are **more difficult to see**, such as **small trenches** and **grass**. So, if you are not very cautious about colder objects in front of the target, the **bullet** can hit the **obstacle** and consequently **miss** the **target**. Also, the **antlers** on the animal are **not well visible**, so **evaluating the game** can be very challenging or not even possible. With a night vision device, it is possible if the animal is not too far away and the weather conditions are good, it is possible to see the **antlers perfectly**.

Because of the **flash** when the shot is fired, the image on an **analog night vision** device can get **white for a short time**, so it is almost not possible to spot the target after the shot. With a thermal clip-on device, this effect **lasts only a fraction** of a second, so spotting the target is **much** easier. Even if the animal runs into dense vegetation, it can still be **tracked** with a thermal vision devices. In most cases, even the **wound** can **be detected**, so the user can immediately tell if the shot placement was good.

Video recording

Many thermal imaging devices have also the **feature to take photos** and **record videos**. Analog night vision devices do not feature this function, but **digital night vision** devices do. The **resolution** in analog night vision devices is **much better**, and they also **drain less energy** than the thermal devices.

Does rain affect thermal devices?

In **bad weather** such as **rain** and **mist**, it is almost **not possible to hunt** with a night vision device. The rain and mist **reflect the IR light**, so you can´t get a clear detailed image. With a thermal vision devices, the picture has less contrast, but **animals** are still **clearly visible** even at **great distances**.

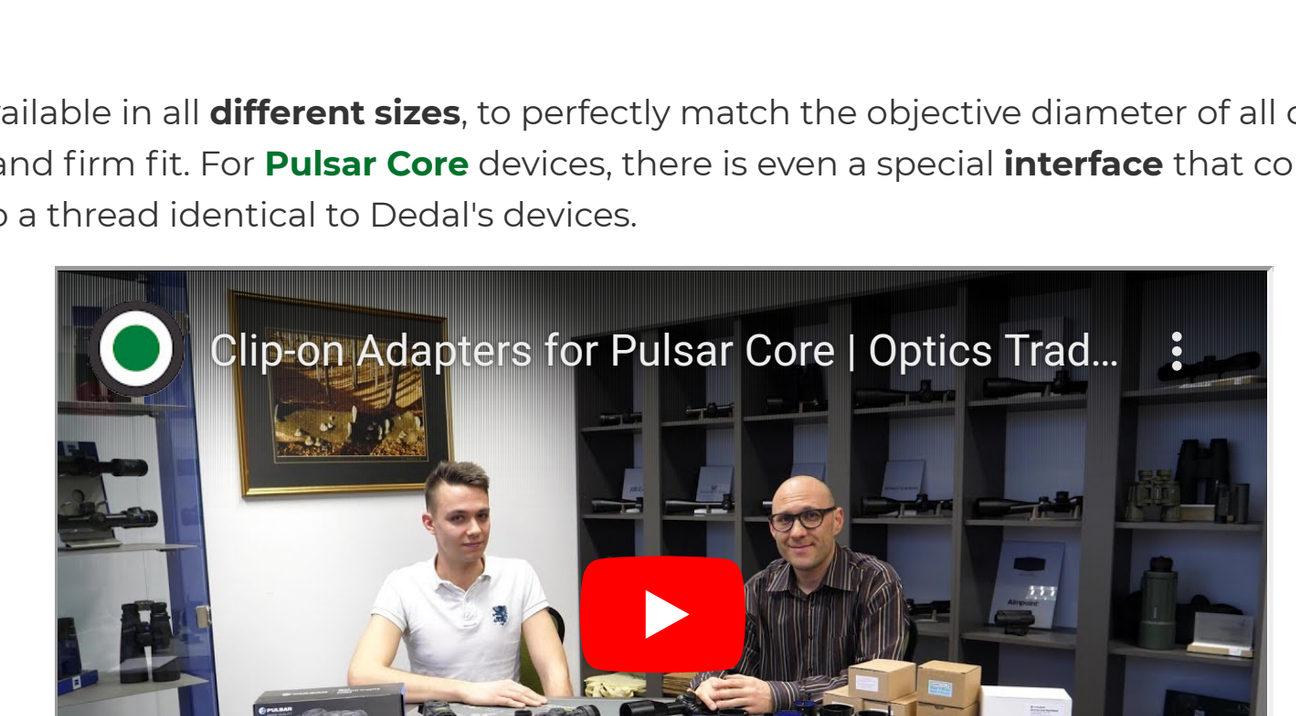
Adapters for thermal clip-ons

There are several manufacturers that produce **clip on mounts** for thermal clip-on devices. The most known company in the **EU** and the first one that started with such production was **Rusan**. In addition to Rusan adapter, **SmartClip clip on adapter** is also very popular.

- The quality of such an adapter has to be **good** because it is the only part that **holds** the clip-on device to the **day scope** (daytime riflescope).
- With a **low-quality adapter** can happen that the **point of impact changes** after attaching the device, so it makes sense to invest in a **high-quality adapter**.

Adapter size

These adapters are available in all **different sizes**, to perfectly match the objective diameter of all common standard day riflescope, for a tight and firm fit. For **Pulsar Core** devices, there is even a special **interface** that converts Pulsar's standard bayonet into a thread identical to Dedal's devices.



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