

WireView PRO



High Performance Cooling Solutions

With the WireView Pro GPU, Thermal Grizzly introduces a new version of the WireView tool for measuring and monitoring the power consumption of graphics cards. The WireView Pro GPU has been enhanced with temperature sensors and an adjustable audible alarm. In addition to two temperature sensors mounted on the PCB, two additional included sensors can be connected to the WireView Pro via plug. Another new feature is the connector detection, where the WireView Pro GPU detects whether a 150-watt, 300-watt, 450-watt, or 600-watt power cable is used.

What does the WireView Pro GPU do?

The WireView Pro GPU enables the monitoring and measurement of power consumption through the power cable of graphics cards and records this data to determine power usage. This data can be used, for example, to calculate the power cost of a graphics card or compare the power consumption with other graphics cards. At the same time, power consumption over a certain period or during specific applications can be determined. Additionally, power peaks through the connection cable can be detected, which may occur during the operation of current high-end graphics cards.

Short Information

- OLED display
- Power consumption measurement
- Power consumption recording
- New: Temperature sensors at power connectors
- New: External temperature sensors
- New: Sensor pin detection
- New: Alarm function
- Optimized cable management

What Can the OLED Display Show?

The following can be displayed on the OLED of the WireView Pro GPU:

- New: Temperature of the power connectors in Celsius [°C]
- New: Temperature of the optional external sensors in Celsius [°C]
- Current power consumption in watts [W], voltage in volts [V], current in amps [A]
- Minimum and maximum power consumption in watts [W]
- Average power consumption over the last 60 seconds [RAVG in W] via the 12VHPWR power cable and total power consumption [E in WH]

Technical Data

Unit:	Value/Description:
Material (cover):	Aluminum, anodized
Colour:	Black
Display type:	OLED
Pin alignment connector:	Normal ("R") / Reverse ("N")
Data connector:	4-pin header
Sensor connector (2x):	2-pin header
Typical application:	Power consumption measurement, Power usage recording, Temperature measurement, Cable management, Alarm function
PU:	7 Pcs.

Name:	Item number:	EAN-Code:	Size:	Power input/output:	Package size:	*Net weight:	*Gross weight:
WireView Pro GPU 1x12VHPWR R	TG-WV-P-H1R	4260711991066	52x43x33 mm	1x12VHPWR	21x15x3,5 cm	39 g	70 g
WireView Pro GPU 1x12VHPWR N	TG-WV-P-H1N	4260711991073	52x43x33 mm	1x12VHPWR	20x15x3,5 cm	39 g	70 g

*Net weight is the total weight of an article excluding the weight of packaging and accessories. The gross weight refers to the total weight of the product including accessories and packaging. Slight weight deviations are possible due to production factors.

What's new in the WireView Pro GPU?

With two temperature sensors on the PCB, located at the power connectors, the WireView Pro GPU monitors temperatures at the power connectors. As up to 600 watts of power can flow through these connectors, they and the board around the connectors can heat up significantly. To prevent damage to the graphics card, the WireView Pro GPU triggers an audible alarm when the temperature at the connectors exceeds an adjustable threshold. Additionally, a threshold for the current (amps [A]) can be set. The board of the WireView Pro GPU also features two connectors for additional temperature sensors (10K NTC) that can be connected via cable. The WireView Pro GPU includes two sensors with cable lengths of 5 cm and 20 cm. These sensors can be mounted, for example, under the graphics card cooler to monitor the temperatures of the voltage regulators.

The WireView Pro GPU also features a function for detecting the connected power cable. It recognizes whether a 150-watt, 300-watt, 450-watt, or 600-watt cable is being used. Note that the WireView Pro GPU only measures the power consumption through the power cable and not any potential consumption via the PCIe slot of the motherboard. The sensor pin detection also checks if the 12VHPWR cable is correctly connected and emits a sound alarm if not properly seated during operation.

Which WireView Pro GPU is Needed?

The WireView Pro GPU is compatible with the 12VHPWR 16-pin power connector (4x sensor + 12x power/ground) in "Normal" (N) and "Reverse" (R) versions:

- If the graphics card has power connectors where the four sensor pins are located between the PCB and the 12 power connectors, the "N" version is required (PCB - 4x sensor pin - 12x power connector).
- If the graphics card has power connectors where the 12 power connectors are located between the PCB and the four sensor pins, the "R" version is needed (PCB - 12x power connector - 4x sensor pin).

When using the 12VHPWR adapter from the power supply unit, ensure that each 8-pin PCIe connector is connected to the power supply via a separate 8-pin PCIe cable. Using splitters (Y-cables) is strongly discouraged! The configuration of the 12VHPWR adapter corresponds to the 600W version.

Why use a power measurement tool for graphics cards?

The WireView Pro GPU provides real-time power consumption readings for graphics cards, which is particularly useful for extreme overclockers and hardware reviewers but also helps in performance testing of a graphics card. Since no additional software is needed to capture power consumption during testing, benchmark results remain unaffected. When manually overclocking the graphics card (e.g., with MSI Afterburner, Gigabyte Aorus Engine, ASUS GPU Tweak, EVGA Precision), the changes in power consumption can be directly monitored on the OLED display of the WireView Pro GPU.

In addition to real-time power consumption display, the WireView Pro GPU stores the measured data in its internal memory to capture, for example, the average consumption over a longer period. The stored data can be reset during operation.

Scope of delivery

- 1x WireView Pro
- 2x Temperature sensors

Important Note

Depending on the graphics card used, especially in the case of the GeForce RTX 4090 and similar GPUs, up to 450 watts of power can flow through the connectors of the WireView Pro GPU. This heat can cause the PCB at the WireView Pro GPU connector to heat up to 60°C with air-cooled graphics cards, and up to 100°C with water-cooled cards without airflow. The WireView Pro GPU case should not be touched during load operation. After shutting down the system, allow the WireView Pro GPU to cool before handling.

Trademark Information

Thermal Grizzly is a registered trademark.

Please note

The data in this technical data sheet are based on our current knowledge and experience. Due to the large amount of possible factors, this should not be construed as to release the users from doing their own tests and screening. No legally binding assurance of specific properties or applicability for a concrete purpose should be derived from these data. Please consider contacting us for further detail. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.