

# BMX PRACTICE GATE

## BASIC SET

The **BMX Practice Gate** (hereafter referred to as **BPG**) is an ideal equipment for individual training in BMX racing (bicycle motocross), pump-track or MTB 4X. The BPG is a lightweight and easy to fold device with which you can practice starts anytime and anywhere there is a paved surface.

Thanks to the mutual compatibility of our current products, the BPG can be extended not only with accessories directly designed for the BPG, but also with our **Training Timer 3.0** (hereafter **TT3**).

### Content of the BPG Basic Set

The basic set of BPG contains the following components:

- § 1x BPG Control Unit (BPG-CU);
- § 1x individual aluminum practice gate;
- § 1x DC 5 V power adapter (up to 2A);
- § 1x remote control sensor + 2x single-channel remote controller;
- § 1x RJ11-RJ11 4-link connection cable (10 meters);
- § 1x hard case for BPG-CU and accessories (optional).

### BPG Control Unit (BPG-CU)

The BPG control unit is an all-in-one device. It contains both control logic and storage for audio files with start commands, a speaker and high bright LEDs to signal the start. There is also a built-in high-capacity industrial monocrystal that powers the entire system.

If the LoRa hardware interface is installed, the BPG-CU can also be connected to TT3, where it then acts as one of the timer sensors.

### Technical specification

<b>Processor</b>	ARM Cortex-M4 ULP
<b>Cores</b>	Single-Core, 32-bit
<b>Frequency</b>	80 MHz
<b>Operation memory</b>	128 kB RAM
<b>Internal memory</b>	1024 kB FLASH
<b>Storage</b>	128 MB (SD card)
<b>Speaker</b>	1x 3 W 4 Ohm
<b>Lights</b>	4x 8 high luminous LEDs (1x red, 2x orange, 1x green)
<b>Trigger mechanism</b>	Electromagnetic lock (180 kg / 350 lbs, 12 V)
<b>Pull mechanism</b>	Stress bungee rope
<b>Launch controller</b>	Radio receiver (433 MHz, 12 V) + 2x transmitter
<b>LoRa® network (optional)</b>	Frequency – 868 MHz (built-in antenna)
	Range – up to 600 meters (high power)
<b>Battery capacity</b>	3000 mAh
<b>Battery consumption</b>	ON – 60 mA
	OFF – 1.2 µA
<b>Temperature</b>	-15°C to 80°C
<b>Box material</b>	PETG plastic (heat resistance up to 80 °C)
<b>Tripod material</b>	

## Expansion devices

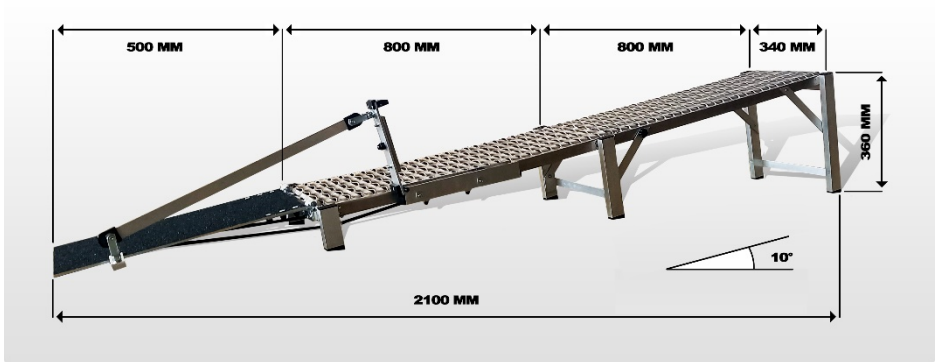
It is also possible to connect other expansion devices to the BPG-CU that are designed specifically for the BPG system. These are currently:

- § **TT3 Compatibility Modul (BPG-LORA)** - thanks to this extension you can use our TT3 wireless timer together with BPG. BPG logs in to TT3 as one of the sensors and after the start it starts measuring the time as with the normal TT3.
- § **Lase sensor unit (BPG-SUL)** - it is a laser sensor that connects by cable directly to the BPG-CU and serves as a very simple version of a timekeeper (for displaying the achieved time it is necessary to connect the BPG-EDU). BPG-SUL cannot be used if you are simultaneously connected via BPG-LORA to an enabled TT3.
- § **External display unit (BPG-EDU)** - this device is used to display the achieved time if you are using the BPG and the BPG-SUL sensor at the same time. It is the only way to get the achieved times from the start measurement.
- § **4Gate Hub (BPG-4GH)** - When designing our BPG, we have of course also thought about small training groups and teams. Up to 4 launchers can be connected to one BPG-CU. Up to 4 riders can therefore start at the same time. The BPG-4GH has coordinating control logic in it, as well as 2 additional high-capacity industrial monocells that help power the entire training setup.

## Dimensions

For a BPG to be easy to use, it must also be easily portable. For this reason, we have taken care during development to ensure that the BPG can be easily disassembled and then reassembled without the need for any tools.

And another very important parameter is that the dimensions of the BPG when unfolded allow for full training launches and when folded it is easily transportable.



**Dimensional parameters**

<b>Unfolded</b>	Total length	2100 mm
	Max height	360 mm
	Overall width	340 mm
	Grid width	300 mm
	Inclination angle	10°
<b>Folded</b>	Total length	820 mm
	Overall width	340 mm
	Height	400 mm
<b>Weight</b>	13 kg	

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