

# ALGE

TIMING



THE SPORTS  
TIMING EXPERTS

**Startspeaker System BANG2**



# START DEVICES

## Speaker System BANG2

The electronic start system BANG2 allows a simple, unproblematic start. It consists of a transportable amplifier speaker box (active speaker with 80 W<sub>max</sub>). The timing system gets the start impulse from the BANG. When the BANG2 is activated a start sound (imitated gunshot) is activated. If the BANG2 is triggered a second time within 5 seconds, a false start sound is generated.

The starter can use the BANG2 for oral commands for the athletes using the ALGE-TIMING communication system or a radio microphone BANG-HS.

The start sound is triggered by a push button (closing contact). If a flash is needed for disabled competitors or to have a more precise manual timing, a start trigger e-Start or FLASH-XL can be used. The electronic startgun e-Start has an integrated flash.

### Advantages of the Start System BANG2

- Start system is always ready, no reloading of a gun necessary.
- No starting problems due to unloaded startguns or bad blanks.
- No costs for expensive blanks.
- There is no cleaning of guns necessary after the end of a race day.
- No legal problems with the use of the start system (in many countries a gun license is necessary for a startgun).
- No problems to transport the start system (in many countries the gun and ammunition must be transported in separate vehicles).
- When using the "StartUnit3", it is possible to communicate with the time keeper and to make announcements over the speakers of the start system (e.g. StartJudge SJ) and the BANG2.
- The BANG2 works with cable or radio (WTN)



- 1 .....cable connection for BANG to timing devices
- 2 .....receiver for wireless headset BANG-HS
- 3 .....display for device adjustment
- 4 .....operator keyboard for device adjustments
- 5 .....Wireless Timing Network WTN
- 6 .....Amplifier for Speaker (connection and adjustments)
- 7 .....On/Off switch
- 8 .....Power supply for mains (100-240 V~)

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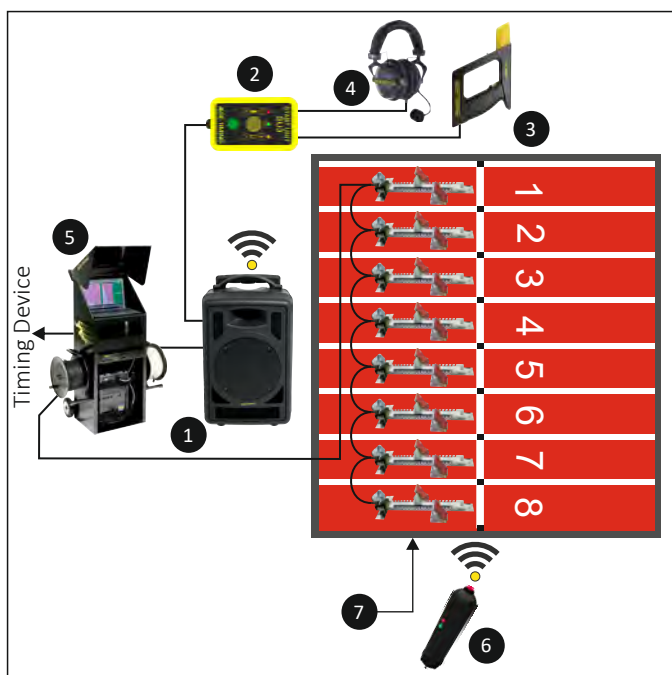


- 1 BANG2
- 2 Timy3 WP
- 3 e-Start W
- 4 BANG-HS

The start system BANG2 is ideal to combine with existing ALGE-TIMING devices. It is possible to use one or more BANG2 speakers in a start system. Attached we will show two setup possibilities:

The upper picture to the left shows a BANG2 connected by radio with the electronic start impulse device e-Start W. The e-Start W replaces a traditional startgun. If you trigger it, the start impulse is transmitted by radio to the BANG2 and it outputs the start sound. At the same time the start impulse is transmitted to the timing device (e.g. Timy3 WP). The starter can give oral commands (e.g. ready, take your marks) to the competitors using the wireless headset BANG-HS.

The start system BANG2 (see lower picture to the left) can also be implemented into an athletic false start system. When the impulse device e-Start is triggered the BANG2 and the speakers of the false start system StartJudge SJ2 output the start sound. If the starter triggers the e-Start again within 5 seconds the speakers release a false start sound. With the radio push button WTN-PB the recaller can activate a false start signal as well.



- 1 BANG2
- 2 Start Unit SU3
- 3 e-Start
- 4 Headset HS3-2
- 5 Start Judge Sj2
- 6 False Start Push Button WTN-PB
- 7 Starng Block with Sensor SJS2

### Technical Data:

- Output Power:* 80 W<sub>max</sub> / 50 W<sub>RMS</sub>
- Speaker System:* bass (20 cm / 8")  
tweeter(2.5 cm / 1")
- Frequency Range:* 20 – 20,000 Hz
- Mic-Input:* 6 mV
- Line-Input:* 800 mV
- Timing Input/Output:* 2 x LTW-socket (7-pin, male)  
1 x banana socket (green / black)
- Equalizer, Bass:* ±15 dB/100 Hz
- Equalizer, Treble:* ±10 dB/10 kHz
- Power Supply:* Mains: 100-240 V~/50- 60 Hz/2 A  
Battery: 2 x 12 V/5.2 Ah (built in)
- Operating Temperature:* 0°C to +40°C
- Measurements:* 305 x 510 x 265 mm (L x H x W)
- Weight:* 12,5 kg
- Radio Module WTN for Timing:**
- Transmitting Frequency:* 2.4 GHz band  
16 adjustable teams
- Transmitting Power:* 10 mW
- Range:* approx. 300 m (line of sight)

### Receiver for headset BANG-HS:

- Receiver Module:* PLL multifrequency receiver
- Carrier Frequency:* 863- 865 Mhz  
divided in 16 frequencies
- Operating Range:* about 30 m (line of sight)



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### BANG2 Accessory



**BANG-HS**  
Headset to speak over the BANG2



**BANG-TRI**  
Tripod for BANG2 with an adjustable height between 107 and 157 cm



**BANG2-BAG**  
Splashproof protective bag for BANG2 with a sound transparent front



**BANG-SPK**  
Passive Horn Speaker to connect at the BANG2 (connect up to 8 BANG SPK)



**FLASH XL**  
Start flash (LED with integrated batteries) e.g. for hearing impaired athletes



**e-Start**  
start impulse trigger (replaces start gun for starter) with integrated flash light for cable connection to BANG2 and timing system



**e-Start W**  
start impulse transmitter (replaces start gun for starter) with integrated flash light for radio connection WTN with the BANG2 and timing system



**Start Unit Su3**  
Amplifier for communication headset



**Headset H3-2**  
Headset to communicate with timing operator and to give oral commands. Usable with SU3 and BANG2



**Start Microphone SM8**  
The start microphone generates an electrical impulse from the shot of a starting gun



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