

Blitzortung.org Order List – System Blue Basic – August 1, 2025

Dear prospective participant of Blitzortung.org,

In addition to the (currently sold out) System Blue detector (PCB 19.x), we offer a System Blue detector (PCB 22.x) in a basic version. This is a System Blue detector reduced to two H-field channels without filter components. This is the standard application of the System Blue detector used by over 95% of participants.

To distinguish between these two detectors, we call the System Blue detector with the PCB_19.x boards Blue Classic and the System Blue detector with the PCB_22.x boards Blue Basic. Blue Basic was also called Blue Mini in the early days, but this led some newbies to believe that it was a limited quality detector, which is definitely not the case. The additional filter options built into Blue Classic certainly make it possible to suppress certain interference signals in special cases. However, filters always distort the signal shapes. This often leads to inaccurate timing of the pulses.

Like Blue Classic, Blue Basic is a kit. Some THT (through hole technology) parts still need to be soldered. You should definitely have some experiences with soldering. If not, the kit should be assembled by friends of you. The boards are shipped with pre-installed firmware Firmware_10.0_Blue.bin. Blue Basic is running with the same firmware as Blue Classic. For more information about updating the firmware, see the documentation.

<https://docs.lightningmaps.org>

You should try to build your own loop antennas. If you do not have the possibility to place a coaxial antenna, frame antenna, or loop antenna in your environment you can also use ferrite rod antennas. If you order ferrite rod antennas, please order two. The antennas are adjusted each other. All detectors need two H-field antennas. You can get ferrite rod antennas from Ferdinand.

<https://www.ferrite-rod-antennas.de>

Additionally, you need an external GPS antenna (SMA Connector, 3.2 Volt), a 5V USB-C power supply, and connection cables.

Please read also the following additional remarks to Blue Basic.

<https://www.limaps.org/hardware.html>

Blitzortung.org is a community of volunteers with noncommercial interests. We make no contracts. We design the boards here in Germany and let them prefabricated only with the most necessary SMD parts, so you have it quite easy to build the board completely. We pack the boards into a parcel and ship it to you. We do all this just as a favor, there is no extra charge. Since we are no salesmen, we send no invoices for the material and service (only on occasional exception, if the users will recover the appropriate amount via official channels). We cannot forward the invoices we get from our local vendors, because these invoices are for the parts for several kits.

Price list for Blue Basic:

Part	Description	Price
PCB 22.2	Detector Board, all components included, SMD components are already soldered	219,00 €
PCB 22.2b	Detector Board, all components included, SMD components are already soldered, prepared for LEDs and buttons on front and back panel	239,00 €
PCB 23.1	Preamplifier for two H-Field antennas with gain 45, all components included, SMD components are already soldered	29,00 €
PCB 22.2 + PCB 23.1	Main Board PCB 22.2 + preamplifier PCB 23.1	239,00 €
PCB 22.2b + PCB 23.1	Main Board PCB 22.2b + preamplifier PCB 23.1	259,00 €
Housing for PCB 22.2	Housing for PCB 22.2 + front panel with cutouts for USB-C and Ethernet socket + back panel with cutouts for SMA and H-field socket + elastic adhesive feet + 8 screws	49,00 €
Housing for PCB 22.2b	Housing for PCB 22.2b + piggyback PCB 22.2c, all components included + front panel with cutouts for USB-C, Ethernet socket, and 7 LEDs + rear panel with cutouts for SMA socket, H-field socket, and three buttons + elastic adhesive feet + 8 screws	59,00 €

The following parts are still available for Blue Classic PCB 19.x:

Part	Description	Price
Alu Primus	Aluminium profile housing kit for Blue Classic PCB 19.6 at panel PCB 20.7 (including front panel, back panel, LEDs, switch, elastic adhesive feet, grounding socket, 8 screws)	64 €
PCB 16.4	Preamplifier for three H-Field antennas with gain 15, all components included, SMD components are already soldered	34 €

The prices for shipping depend on the destination countries.

Country	Price for shipping	Maximum content for this price
Germany	6,20 €	unlimited
European Union	15 €	detector + preamplifier + housing
Switzerland	20 €	detector + preamplifier + housing
United Kingdom	20 €	detector + preamplifier + housing
Norway	22,50 €	detector + preamplifier + housing
Non-European countries	26 €	detector + preamplifier + housing

Shipping is always carried out with tracking. You can check the prices for shipping with DHL with tracking yourself on the following page. <https://www.dhl.de/en/privatkunden.html> Please note that customs duties may apply for shipments from Germany to outside the European Union.

You can pay either by bank transfer or with PayPal.

Please do not pay until we have confirmed the amount to pay and the availability of the components. Do not forget to include your postal address in your enquiries.

Regards and have fun,
Egon Wanke
DL1YDB