

# User Manual

Wideband-Amplifier

**WBV 230**

Art. Nr: 57003181



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DCT DELTA AG reserves the right to changes of the specification of the hardware and software of the device explained in this manual.

DCT DELTA AG cannot be made liable for damages accruing through the usage of this product. All information herein can be subject to change.

© DCT DELTA AG Digital Communication Technology, Bodanrueckstr. 1, 78351 Bodman-Ludwigshafen, Germany

T +49 7773 9363 0 F +49 7773 9363 777

# 1. Introduction

## Product Description

The WBV 230 has been designed to amplify Wideband TV signals for home installations and distribution systems. The WBV 230 has separate inputs for the Wideband polarities Vertical and Horizontal. The different signals can be levelled individually.

The WBV 230

- 2 Inputs (Vertical and Horizontal)

- 2 Outputs (Vertical and Horizontal)

- Attenuation adjustment and slope adjustment per output

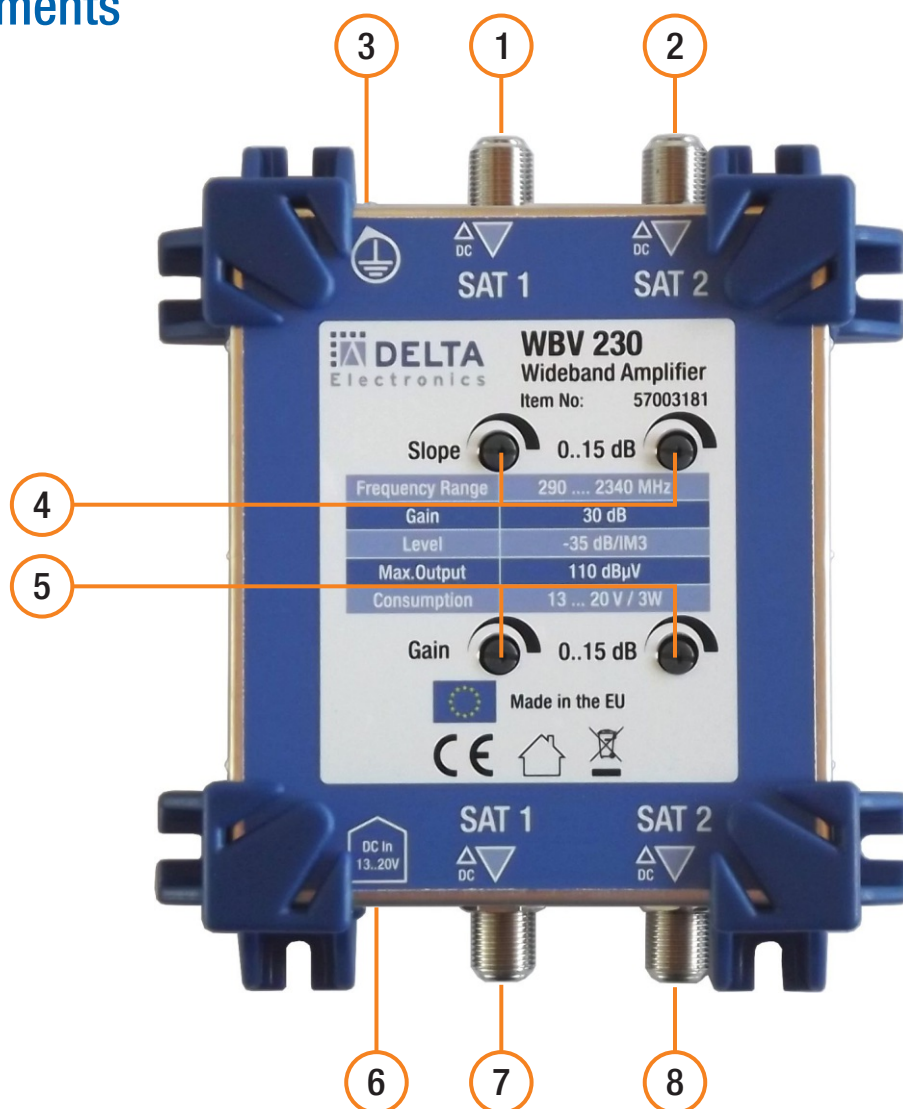
The output signals can be distributed via splitters to several multi switch cascades and from there to the subscribers.

## Package Content

1x Wideband amplifier WBV 230

1x User Manual

## Product Elements



- 1 Wideband-Input 1
- 2 Wideband-Input 2
- 3 Earth connection
- 4 Slope adjustment
- 5 Attenuation adjustment
- 6 DC-Input
- 7 Wideband-Output 1
- 8 Wideband-Output 2



## 3. Configuration of the WBV 230

### Wideband Input 1 ①

Connect the cable of a Wideband LNB (290 - 2340 MHz) to this input. Mark the cable on both ends with the polarization that it's used for. We suggest to connect the vertical polarization to input 1.

### Wideband Input 2 ②

Connect the cable of a Wideband LNB (290 - 2340 MHz) to this input. Mark the cable on both ends with the polarization that it's used for. We suggest to connect the horizontal polarization to input 2.

### Earth Connection ③

Connect a qualified earthing cable to this connector. The earthing cable must be connected to ground.

### Slope Adjustment ④

With this rotary knob you can compensate the slope of the Wideband signal. The higher the signal frequency, the more it is attenuated. With this slope control the lower frequencies are attenuated to level the signal at the output equally or to pre compensate the loss of the attached output cable.

### Attenuation Adjustment ⑤

With this rotary knob you can attenuate the output signal up to 15 dB if it is too high for the following devices.

### DC Input ⑥

Here you can connect an external power supply (up to 3.3A @ 20V). The connected power supply also can drive devices behind the amplifier (e.g. multi switches).

### Wideband output 1 ⑦

This output provides the gained and leveled signal of input 1.

### Wideband output 2 ⑧

This output provides the gained and leveled signal of input 2.

## 4. Technical Specification

WBV 230 Amplifier	
Inputs	2 (F female)
Outputs	2 (F female)
Frequency range	290...2340 MHz
Gain	30 dB
Maximum output level*	110 dB $\mu$ V
Slope adjustment	15 dB
Attenuation adjustment	15 dB
Power supply	Via outputs or external power supply
Power consumption	3 W
Dimensions	115 x 130 x 50 mm (120 x 140 x 60 mm incl. packaging)
Weight	235 g (265 g incl. packaging)
Operation temperature range	-25°C - +60°C
Item number	57003181

\* EN 50083-3 / 60 dB IMA3

## 5. Safety Notes



**Read the instructions carefully before you connect the device!**



To avoid fire, shortage or electrical shock:

- Never expose the product to rain or high humidity.
- Install the device at a dry place without water infiltration or condensation.
- Don't expose the device to drops or splash water.
- don't place any containers with liquids (e.g. vases) onto the device.
- If any liquid penetrates the device, pull the power cord immediately.



To avoid overheating:

- Install the device at a sufficient ventilated place. Make sure to keep a distance of at least 15cm around the device to ensure a proper ventilation.
- Don't place anything onto the device that could block the ventilation slots (news paper, table cloths, curtains, ...)
- Don't place any open flames like candles onto the device.
- Don't install the device in a dusty environment.
- Don't use the device in areas with tropical climate.
- Maintain the minimum and maximum temperature limits.



To avoid electrical shocks:

- Make sure the device is properly grounded
- The power plug should be easy to reach.
- Always pull the power plug before connecting any signal cable
- Never open the device.



### Maintenance



Use dry, soft cloth to clean the device

Don't use any aggressive detergents.

For repair and maintenance please contact qualified retailers.



**Disposal according to the local regulations.**



## 6. Warranty Terms

For a periode of 24 years after the purchase of the product, DCT DELTA AG garantees that it is free of material and production faults.

In case the product turns out to be faulty during normal use within the warranty periode, DCT DELTA AG will repair or replace the product at ist own discretion. Please bring the device for repair to your local dealer.

### The warranty is only valid for materials and production faults and does not cover damage out of:

- Abuse of the product or the use outside it's specification.
- Installation or usage which does not comply with the technical and safety rules of the country where it is used.
- Usage of non-compliant accessories (power supply, adaptors,...).
- Installation in a faulty environment.
- External reasons outside the influence of DCT DELTA AG like dropping the device, accidents, flashes, water, fire, insufficient ventilation ...

### The warranty is omitted if:

- The production date or the serial number on the device cannot be read anymore or has been tampered, deleted or removed
- the product has been opened by an non-authorized person.

Hereby DCT DELTA AG declares that the radio equipment type Wideband Amplifier WBV 230 is in compliance with directive 2014/53/EU. The complete text of the EU declaration of conformity is available at the following internet address:

[www.dct-delta.de/service/](http://www.dct-delta.de/service/)



DCT DELTA AG  
 Digital Communication Technology  
 Bodanrückstr. 1, 78351 Bodman, Germany  
 Tel: +49 7773 9363 0 Fax: +49 7773 9363 777  
 Email : [info@dct-delta.de](mailto:info@dct-delta.de)  
[www.dct-delta.de](http://www.dct-delta.de)

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**DCT DELTA AG**  
**Digital Communication Technology**  
**Bodanrückstr. 1, 78351 Bodman, Germany**  
**Tel: +49773929258 Fax: +497773929259**  
**Email: [info@dct-delta.de](mailto:info@dct-delta.de)**  
**[www.dct-delta.de](http://www.dct-delta.de)**