

Quick User Guide

Maximizer

Digital MPX Processor

→ **BEFORE YOU USE THIS PRODUCT** ←

In order to be able to enjoy all the benefits of owning your new DEVA product, please verify first that the latest software and firmware release were installed.

Visit www.devabroadcast.com/downloads for the most recent software and firmware downloads, prior the installation.

This Quick user guide will make the installation of the Maximizer quick and easy. Applying these principles, you can simplify the process and save yourself extra time and effort. **For more information about the Safety precautions and the Operating environment recommendations please refer to the complete User Manual.**

STEP 1

Connection

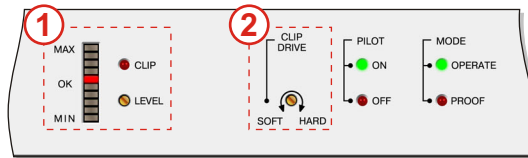
1. Install the unit on its operation place;
2. Connect the unit via grounding cable to the ground network of the room space where the unit is installed;
3. Use a high quality cable to connect the MPX Input of the device to the MPX output of a stereo encoder;
4. Connect the output of the "MAXIMIZER" directly to the transmitter's modulation input or to an MPX distributor (where multiple transmitters should be supplied);
5. Connect the device to the power supply network via the provided power cable.

NOTE: Before connecting the device to the power supply, make sure that:

- The internal selector is in accordance with the mains supply at your location. The Power Supply Factory Settings are AC 115V/230;
- The device and the Power supply are well-earthed.

STEP 2

MPX Level Configuration



The MAXIMIZER effectively controls the amplitude (and therefore modulation depth) without affecting the quality of the output signal.

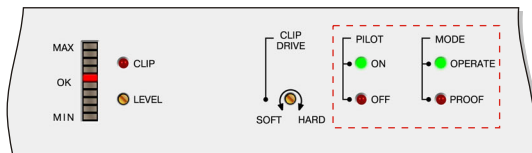
1. In order to get an MPX signal output of 0 dBm (pilot signal-20 dBm) inject a 400 Hz tone into the coder input.
2. Once the device is fed with MPX Signal, the Trimmer level should be set. Using a screwdriver calibrate the transmitter input level for a deviation of 75 KHz. When the required level is reached, the LED bargraph indicator "Level OK" (1) will indicate it;
3. Remove the sample signal from the coder's input;
4. Reconnect the music signal to the Stereo Encoder.

STEP 3

Calibration of the Clipping Threshold

Upon completion of *Step 2* the type of processor intervention should be selected. The trimmer indicated as (2) on the picture above, allows adjustment of the clipping degree of the input signal. This parameter should be selected in accordance with the required musical effect:

1. SOFT - Counter-clockwise rotation will result in a small degree of control;
2. HARD - Clockwise rotation will result in a greater degree, "slugging" the modulation level.

STEP 4**Operate/Proof Mode****Operate Mode**

The green led light PILOT ON and OPERATE MODE will be switched on, once the MPX signal is fed to the device.

Proof Mode

On PROOF mode, the signal passes through "MAXIMIZER" without any change. The red led light PILOT OFF and PROOF MODE will be switched on.

NOTE: In case of a power failure event, the BYPASS relay will connect the input to the output, and the MPX signal will continue unaffected.

STEP 5**RDS/RBDS Adjustment**

The RDS and SCA coders should be connected to the specific "MAXIMIZER" inputs. The MPX might degrade if the coders are included in the MPX signal during the processing.

The "RDS Level" trimmer, placed on the rear panel of the device, allows adjustment of the RDS signal amplitude.

Standard configuration (when splitting is not required) - the RDS signal is included in the MPX signal after the stereo encoder. In this case, it is necessary that the two sub carriers be added after "MAXIMIZER" has performed its function, thus you should use the inputs available on the unit.



Please refer to the User manual for detailed information on how to configure and explore your device.



65 Aleksandar Stamboliyski Str., 8000 Burgas, Bulgaria
Telephone: +359 56 820027, Fax: +359 56 836700
office@devabroadcast.com, www.devabroadcast.com