

## 5.2 Factory settings

The device leaves the factory with the following default settings.

If they match with the needs of the user simply set the desired power and place the device in RF ON.

Instead, if there was a need to change the parameters, refer to "Main parameters setting" in this section.

FACTORY SETTINGS	EXCITER TYPE		
	With Stereo Coder (can operate in MPX mode, Stereo mode, and Mono mode)	With Stereo Coder + AES / EBU (can operate in MPX mode, Stereo mode, Mono mode, and AES / EBU mode)	With MPX (can operate in MPX mode only)
Output power	0W	0W	0W
Frequency transmission	98.000 MHz	98.000 MHz	98.000 MHz
Sensitivity L,R inputs for +/-75 kHz deviation	0dBm	0dBm	0dBm
Sensitivity MPX input for +/-75 kHz deviation	0dBm	0dBm	0dBm
Sensitivity AUX input	0dBm	0dBm	0dBm
19kHz subcarrier stereo	OFF (MPX input)	OFF (MPX input)	Not available
Preemphasis	0uS (linear)	0uS (linear)	Not available
Clipper	OFF	OFF	OFF
"NO AUDIO" alarm	ON, with thresholds setted for not intervening (-45 dB for 5 minutes)	ON, with thresholds setted for not intervening (-45 dB for 5 minutes)	ON, with thresholds setted for not intervening (-45 dB for 5 minutes)
VSWR/ROS foldback	OFF, protection by threshold	OFF, protection by threshold	OFF, protection by threshold

The device leaves the factory already programming with the lever down (running mode).

If there is Profile board the device profile ID is set to 1.

## 5.3 Main parameters setting

To set the parameters to the display device must be in LOCAL mode.

Instead, you can see part of the menu, even if it is in REMOTE mode, if there is the setting “DIP.ON REMOTE SHOW: TRUE” (for details refer to the “User Interface” paragraph). The transition from LOCAL to REMOTE there is by turning the key, supplied, in the selector.

In LOCAL the blu led lights and automatically appears the “Status&Settings” screen.

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All phases of navigation are operated from the encoder on the front panel.

The actions that can be accomplished through the knob are:

- SELECTION HIGHLIGHTED ITEM: short press of the knob.
- SCROLL OF ITEMS: turning the knob clockwise / counterclockwise.
- INCREASE / DECREASE: turning the knob clockwise / counterclockwise.
- RETURN TO MAIN MENU: long press of the knob (at least 1 sec.).



SCROLLING



SELECTION

### 5.3.1 Frequency setting

In Status&Settings screen rotate the encoder up to highlight the field frequency.

Press once to enter in the mask for adjustment.

The frequency field is now highlighted and editable: rotate clockwise/counterclockwise the encoder, respectively, to increase decrease the value.

Press the encoder to confirm.

The window now shows the new working frequency.



### 5.3.2 Power setting

In Status&Settings screen rotate the encoder up to highlight the field power.

Press once to enter in the mask for adjustment.

The power field is now highlighted and editable: rotate clockwise/counterclockwise the encoder, respectively, to increase decrease the value.

Press the encoder to confirm.

The window now shows the new working power.



### 5.3.3 Audio input setting

Depending on the audio signal type used to modulate, you must select the corresponding input.

In Status&Settings screen rotate the encoder until highlight the five horizontal tab menu.

Press to make the field editable.

Now rotate the encoder to see other options:

#### 5.3.3.1 MUTE

Used to mute all inputs. It is usually used during maintenance.

#### 5.3.3.2 MPX

To use an MPX signal, select this mode by moving the cursor on the display and press the encoder to confirm.

Apply the MPX signal to the BNC connector on rear panel.

#### 5.3.3.3 STEREO

To use a STEREO signal, select this mode by moving the cursor on the display and press the encoder to confirm.

Apply the stereo signal to the XLR connectors on rear panel.

The audio signal can be both balanced and unbalanced. In the latter case there is a reduction of 3dB level.

Select the appropriate level of pre-emphasis for transmission by placing the cursor on the fourth tab on the horizontal menu.

Press the encoder to make the field editable. Rotate the encoder to select the desired level, then press to confirm.

You can choose between the values: 0, 25, 50 and 75 $\mu$ s.

Usually 50 $\mu$ s is the standard in the U.S. and 75 $\mu$ s in the EU.

#### 5.3.3.4 MONO

To use a mono signal, select this mode on the display by turning the encoder and press to confirm.

Apply the signal to the connector XLR MONO/RIGHT on rear panel.

The audio signal can be both balanced and unbalanced. In the latter case there is a reduction of 3dB level.

You can use other inputs, but they not be set directly from the screen Status&Settings.

#### 5.3.3.5 AES/EBU

To use a signal AES/EBU is sufficient apply the signal to the XLR dedicated, located on the rear panel.

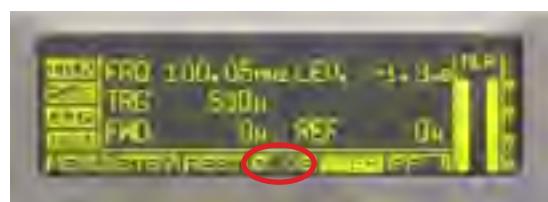
The signal is automatically recognized.

For more details on settings, see "User Interface" paragraph.

#### 5.3.3.6 AUX SIGNALS (RDS/SCA)

To use an auxiliary signal is sufficient apply the signal to the corresponding BNC connector, located on the rear panel.

For more details on settings, see "User Interface" paragraph.



## SAME PROCEDURE FOR PRE-EMPHASIS LEVEL

### 5.3.4 Audio level setting

In Status&Settings screen rotate the encoder up to highlight the field LEV.

Press the encoder to make it editable.

Rotare the encoder to turn down the amplification (-15dB).

Apply the desired audio signal.

Increase slowly the gain until the Vu-meter reach the 0 dB level in accordance with the audio signal peaks.

Confirm the value by pressing the encoder.

During operation the field CLIPPER should not light up, otherwise it means that the deviation is too high and therefore there is overmodulation.



APPLY AUDIO SIGNAL



### 5.3.5 Turn on

In Status&Settings screen, to turn on the unit, rotate the encoder until highlight the second tab of the horizontal menu.

Press the encoder to make display the written RFON.

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In LOCAL mode, you have a situation of conformity where occurs that:

- the 4 indicators (ITLK, -3dB, CLIP, NOAU) are off;
- the frequency is set to match the desired;
- the output power corresponds to the desired;
- the reflected power is zero or low value;
- Vu-Meter indicates the value 0dB.



After all phases of installation and programming, turn the unit in REMOTE mode using the key switch.

In REMOTE mode, you have a situation of conformity where occurs that:

- PLL LOCK LED is lit;
- ON AIR LED is lit;
- MAINS LED IS LIT;
- all remaining LEDs are off;
- the display shows the company logo if you have the setting “DIP.ON REMOTE SHOW: FALSE”, otherwise the display shows the menu to be scrolled if there is the setting “DIP.ON REMOTE SHOW: TRUE”.

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Warning: you should keep a copy of the key in a secure location of the station.

