DRM-814CI

DVB-S/S2 to AM remodulator system VSB A2

User Manual





1. Purpose of use

DRM-814CI system is designed for a processing scrambled QPSK/8PSK modulated satellite signal into standard CCIR channels. DRM-814CI is supplied with a A2 stereo/dual/swap dual/multistandard mono modulator, which can be used on the adjacent channels (VSB modulation) from S2 to E69. DRM-814CI is valid for both MPEG-2 and MPEG-4 signals. The multistandard modulator supports BG, I, DK, L, MN standards.

2. Installation

The connections and indications are shown in Fig 1.

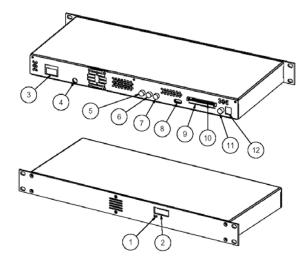


Fig 1.

- 1. Control switch: OFF (left) or ON (right). The switch must be set to OFF position when unit is powered or SW is downloaded
- 2. Channel number (CCIR) or TV standard. The signal led shows that the unit is powered or modulator set-up is activated
- 3. Power cord Cable-TV S channel.
- 4. RF OUT
- 5. VIDEO OUT connector for monitoring.
- 6. and 7. AUDIO OUT connectors for monitoring
- 8. USB port.
- 9. Smart card reader for Conax smart card
- 10. CAM slot
- **11. LNB IN**
- 12. RJ 45 connector for possible software update

DRM-814CI is designed for standard 19" rack mounting. Do not cover the air passage holes.

Power cord is connected to connector 3.

Signal from antenna is connected to LNB input.

RF OUT is connected to cable network.

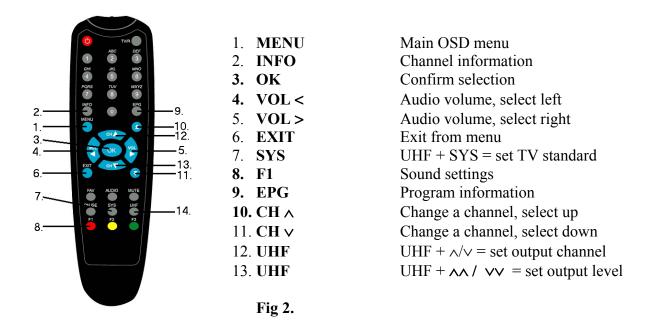
VIDEO/AUDIO connectors are for monitoring the unit.

RF OUT is connected to cable network.

3. Programming

The receiver and modulator is simple to program with the remote control unit (RCU). The main functions of RCU are shown in Fig 2.





NOTE! When programming is ready the switch must be set to center position.

3.1 Power-up

Before powering a unit check that the control switche ais in the OFF position. After power up a black screen is displayed.

When the unit is powered the display lights up showing selected output channel. The factory set channel is E21

The display is switched off after 3 minutes. The signal led indicate that the unit is powered. The display lights up again by pressing any button of remote controller unit.

3.2 First time set-up

When using the unit for the first time, you must first connect RCA cables to VIDEO/AUDIO connectors for monitoring the unit or set the modulator output to required channel. After this you can continue set-up using on-screen menus.

To control modulator first slide front panel switch to right position to control receiver 1 and modulator. Press UHF key on the remote. On selected output channel display a dot is lit on right lower corner. This indicates that modulator set-up is activated. Test pattern and test sound are switched on.

To change output channel press up or down CH keys to scroll thought available channels. Cable TV Schannels are indicated with a dot between digits. The selectable channels are S02 - S10, S - S11 - S41 and S1 - S11 - S11 - S41 and S1 - S11 - S11 - S11 - S11

To change TV standard press SYS key repeatedly until required standard name (BG, I, DK, L or MN) is displayed.

The output level is adjusted by pressing UHF + $\wedge \wedge$ / $\vee \vee$ (double arrows).

To save modulator settings press OK key. To cancel selection, press EXIT key. Modulator set-up will be exited and test pattern and test sound will be switched off in both cases.



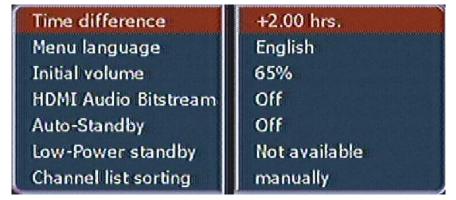
3.3 Set-up

To start set-up, press Menu key. Main Menu will be displayed. Select "Settings" menu.



"Settings" menu is displayed.



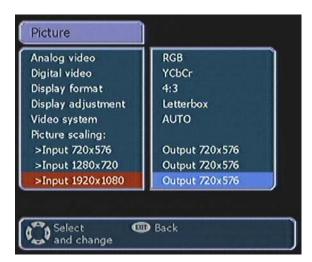


Select "Receiver setup" and select appropriate language in "Menu language".

Do not adjust other settings of "Receiver menu".

NOTE! If audio volume must be adjusted, you must do it in "Receiver setup"-menu. If volume is adjusted with VOL button of RCU, it is not memorized and setting will disappear after next power break.

Press "Exit" in RCU and then select "Picture" menu. Below "Picture" menu is just for your information. It is not necessary to adjust.





Press "Exit" in RCU and then select "Sound" menu. You need not to adjust "Sound" menu.



Sound channel is selected automatically according to source.

Press "Exit" in RCU and then select "Subtitle" menu.

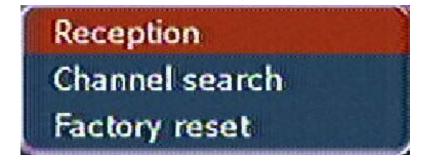


If there is subtitlitling in a channel, set "Subtitle" ON and select a language.

Press "Exit" in RCU twice to exit from "Settings" menu.

3.4 Channel search

Select "Installation" menu.



Do not adjust "Reception" menu.

Select "Channel search".

If you must use "Factory reset", check that "Settings" menu is according to above pictures.

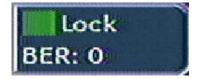
Press ∨ pushbutton of RCU to select "Search mode".

There are two ways to search channels; "Automatic" and "Manual".

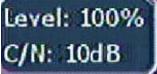
"Manual" search is recommendated as it is faster than "Automatic" mode. "Automatic" mode is used only if channel frequency is not known.











Select "Start scan" and press OK.

When scanning is ready, press "Exit" three times to exit from menu.

The program can be selected now with $\mbox{ CH } \wedge \mbox{ or } \mbox{ CH } \vee \mbox{ pushbuttons}.$



4. Technical specification

8PSK/QPSK INPUT

Number of channels 1

Tuners 1

Input frequency range 950 - 2150 MHz

Input level -70 ,,, -25 dBm

Waveform 8PSK, QPSK (SCPC, MCPC)

Symbol rate 4 - > 45 MS/s

FEC decoder Automatic

CI slot

Smart card reader 1 (Conax only)

MODULATOR OUTPUT

Output frequency range 112,25 MHz - 855,25 MHz

Modulation AM, VSB, A2 stereo

Transmission standard B/G, D/K, I, L, M/N

Output level max. 105 dBuV

Data interface 1* USB

Input connectors F-female 75 ohm

Output connectors F-female 75 ohm

Power 100 – 240 VAC, 50-60Hz

Dimensions 19", 1RU



This symbol on the product or on its packing means that within the European Union the product must be taken to separate collection at the product-end-of life.

Do not dispose of these products as unsorted municipal waste.

Fore more information about where you can drop off your waste equipment for recycling, please contact your local city office, your house disposal service or the shop where you purchased the product.

