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1. Precautions

*** PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THE RECEIVER.**

1. DO NOT OPERATE THE RECEIVER WITH UNSTABLE CONDITION SUCH AS HIGH HUMIDITY, HEATING, MOISTURE, AND ELECTRIC SPARK AREAL.
2. STOP THE OPERATION IMMEDIATELY IF ANY LIQUID OR SOLID OBJECT SHOULD FALL INTO THE RECEIVER.
3. DO NOT TOUCH OR OPERATE THE RECEIVER WITH WET HAND.
4. OPERATE THE RECEIVER ONLY WITH PROPER POWER SOURCE MARKED ON THE RECEIVER.
5. UNPLUG THE RECEIVER POWER CORD BY GRIPPING THE POWER PLUG, NOT THE CORD.
6. DO NOT OPEN THE RECEIVER COVER AND TRY FIX IT BY YOUR SELF. ONLY QUALIFIED AND LICENSED SERVICE PERSONNEL IS ALLOWED TO MAKE REPAIRS.
7. PLEASE UNPLUG THE POWER CABLE IF IT UNUSED FOR A LONG TIME OR DURING THE BAD WEATHER SUCH AS LIGHTNING THUNDER STROM.
8. DO NOT STACK ANY HEAVY STUFF ON THE RECEIVER.
9. DO NOT CONNECT OR MODIFY CABLES WHEN THE RECEIVER IS PLUGGED IN.
10. IF YOU SHOULD POWER OFF THE RECEIVER BECAUSE OF THE ELECTRICITY FAILED OR OTHER MATTERS, PLEASE POWER ON AFTER 3~5 SECONDS FOR THE STABLE OF RECEIVER.

2. Remote Control Unit

POWER ON

Turns the receiver ON / OFF.

MUTE

Switches the sound ON / OFF.

TV/DBS

Switches between TV and Satellite Mode.

TV/RADIO

Switches between TV and Radio Modes.

FAV

Displays the favorite channel list.

Find

Quick Find channel function

RECALL

Returns to the previously viewed channel.

CH UP/CH DOWN

Tunes to the next or previous channel.

VOL UP/VOL DOWN

Adjusts the sound volume (Increase / Decrease)

VCR/DBS

Selects either VCR or DBS for the TV output mode when connecting the VCR by the SCART connector.

0~9 / A~Z

Direct choice of TV / Radio channel and other commands by the numeric keys. Input the character by the alphabetical keys.

OK/LIST

Shows the Channel List or selects an item on the Menu.

MENU

Displays the Menu on the screen.

F2

4:3/16:9 Umschaltung



Image 1 Remote Control Unit

EXIT

Returns to the previous menu and the screen.

PG/UP, PG/DW

Turns to the next or previous channel list.

PAUSE

Stills the playing picture.

ZOOM

Makes zooming the current displaying channel.

T/TEXT

Shows the TELETEXT on the screen if the TV can be available.

TIMER

Turns the STB off automatically after certain minutes.

EDIT

You can edit the current channel information

SUB.T

Selects the subtitle language for the current channel if applicable.

AUDIO

Selects the audio mode between Stereo and Mono.

INFO

Displays the program information box on the screen.

SIGNAL

Checks the LNB signal and quality

EPG

Displays the EPG (Electronic Program Guide)

MULTI PICTURES (M)

Shows the Multi Pictures on the screen.

SAT

Changes the Satellite on the channel List.

F3

RGB/CVBS Umschaltung

3. Front Panel

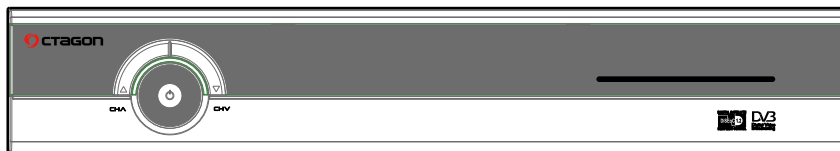


Image 2 Front Panel

1. POWER : Turns the receiver ON/OFF.
2. CH : Selects the next or previous saved channel.
Also highlights choices in the Menu.
3. DISPLAY : Shows the channel information or current status.
4. SMART CARD SLOT & CI SLOT : To insert the proper CAM or Smart Card fully into the slot.
[Option - Available only for CI or CAS mode]

4. Rear Panel

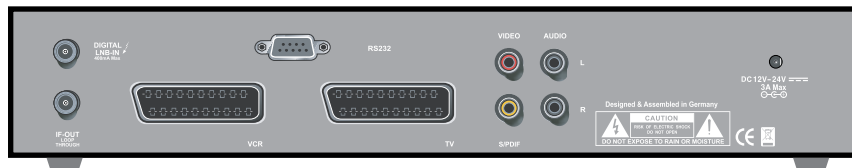


Image 3 Rear Panel

- | | |
|------------------------|--|
| 1. POWER | : Power connection cable AC 100 to 240 VAC, 50Hz/60Hz. |
| 2. LNB IN | : Connects the coaxial cable from the LNB. |
| 3. IF OUT | : Connects to another satellite receiver if required. |
| 4. Scart VCR | : For the video/audio input of the TV. |
| 5. Scart TV | : For the video/audio input of the VCR. |
| 6. VIDEO | : Provides a composite video output to TV or other equipments. |
| 7. AUDIO (R/L) | : Provides the stereo audio output to TV or other equipments. |
| 8. S/PDIF | : Digital Audio Interface. |
| 9. DC 12-24V Connector | : Connects to 12V-24V cigar socket. |

5. Connection Diagram

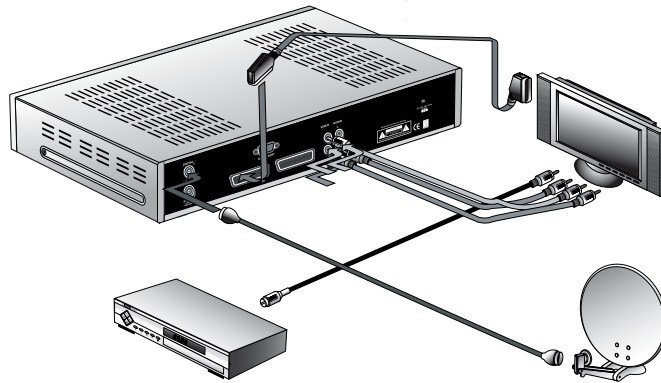


Image 4 Connection Diagram

1. Connect the satellite signal from the LNB to the LNB IN of your receiver.
2. Connect the terrestrial antenna to ANT IN if available.
3. You can connect your receiver to a TV or VCR with SCART or RCA cable (Video, Audio R/L).
4. You can connect the S/PDIF connector of the receiver to the Dolby Digital Audio compatible equipment.



Image 5 Connection Diagram with DiSEqC Switch

If you want to use a DiSEqC switch for more than one satellite, connect the LNB OUT from the satellite dishes to the DiSEqC switch IN connectors, and connect the DiSEqC switch OUT connector to the LNB IN of your receiver.

6. Main Menu

OPERATION

Press MENU button, "Main Menu" and the following 4 Sub Menus will be displayed on the screen.

1. Installation

Octagon Search, Antenna Setup, Auto Search, Manual Search, Motorized Dish Setup, Blind Scan, Factory Reset

2. System Setup

Language, TV Setup, Time Setup, Lock, Product Information, Others

3. Common Interface[Optional]

Common Interface, Smart Card

4. Utility

Edit Satellite, Add Channel, Calendar, Game, Bio Rhythm, Calculator, Timer Setup

7. Installation

Press MENU button and select "Installation"



Image 6 Main Menu Installation

- a. Octagon Search
- b. Antenna Setup
- c. Auto Search
- d. Manual Search
- e. Motorized Dish Setup
- f. Blind Scan
- g. Factory Reset

a 7.1 Octagon Search



Image 7 Octagon Search

[auto detection of connected Satellite and their LNB connecting-ports of DiSEqC]

With the octagon search you have the possibility to detect the focused Satellite and their LNB connecting-port of the DiSEqC. This means that with function the Receiver would search the Satellite and detect to which Port their connected. If you use DiSEqC of 4/1 than the Receiver will find the searched Satellite for expl. ASTRA to LNB Port A and so.

7. Installation

b 7.2 Antenna Setup



Image 8 Antenna Setup

Set up the antenna to get the proper signal and then, search the channels.

- ◆ Satellite : You can select a satellite which you want to get the signal.
- ◆ LNB Type : You can select a LNB frequency among
- ◆ Transponder : You can select the desired TP.
- ◆ LNB Power : You can select LNB Power On/Off.
- ◆ 0/22kHz : You can select 22kHz On or Off.
- ◆ Switch : You can select the available switch mode, according to your DiSEqC.
 - ◆ None : DiSEqC switch is not used.
 - ◆ DiSEqC 1.0 : You can select switch type.
 - ◆ DiSEqC 1.1 : You can select DiSEqC Switch Type & Port.
- ◆ Network Search : If you want to search by NIT (Network Information Table), press On but it will takes time more.
- ◆ Mode : You can search only FTA or All channels.
- ◆ Start : After finishing installation, press OK to start searching.

c 7.3 Auto Search



Image 9 Auto Search

Select desired satellite on the Satellite List by pressing "OK" button.

If you press Green button, it will start to scan all channels. If you press Yellow button, it will start to scan only FTA channel.

7. Installation

d 7.4 Manual Search



Image 10 Manual Search

- ◆ Satellite : Select a satellite which you want to get the signal.
- ◆ Frequency : Enter the TP frequency with the numeric button or select one with ◀ VOL ▶ buttons.
- ◆ Polarity : Select Vertical or Horizontal frequency.
- ◆ Symbolrate : Enter the TP symbolrate value with the numeric button.
- ◆ Network Search : You can select NIT (Network Information Table) search On/Off.
- ◆ Save Edit : You can save edited TP.
- ◆ Mode : You can search only FTA or All channels.
- ◆ Start : After finishing installation, press OK to start searching.

e 7.5 Motorized Dish Setup

If you have USALS or DiSEqC, please set up as follows.

7.5.1 USALS



Image 11 Motorized Dish Setup USALS

- ◆ Satellite : Select a satellite which you want to get the signal.
- ◆ Transponder : Select the desired TP.
- ◆ Set Limit : You can set or disable the limits of antenna position by pressing ◀ VOL ▶ buttons. Press "OK" button to save/delete.
- ◆ Goto Center : If you press OK button, it will go to the center position.
- ◆ Longitude : You can set the longitude of the present location.
- ◆ Latitude : You can set the latitude of the present location.
- ◆ Network Search : You can select NIT (Network Information Table) search On/Off.
- ◆ Mode : You can search only FTA or All channels.
- ◆ Start : After finishing installation, press "OK" to start searching.

7. Installation

7.5.2 DiSEqC 1.2



Image 12 Motorized Dish Setup DiSEqC 1.2

- ◆ Satellite : Select a satellite which you want to get the signal.
- ◆ Transponder : Select the desired TP.
- ◆ Move/Save : You can adjust antenna position to EAST or WEST by pressing ◀ VOL ▶ buttons, and OK button to save/clear.
- ◆ Set Limit : You can set or disable the limits of antenna position by pressing ◀ VOL ▶ buttons. Press OK button to save/delete.
- ◆ Goto Center : If you press OK button, it will go to the center position.
- ◆ Network Search : You can select NIT (Network Information Table) search On/Off.
- ◆ Mode : You can search only FTA or All channels.
- ◆ Start : After finishing installation, press OK to start searching.

f 7.6 Blind Scan



Image 13 Blind Scan

The Receiver will scan of Blind-Search-Modus automatically all available symbol rate and frequencies only specially for this chose satellite.

7. Installation

9 7.7 Factory Reset



Image 14 Factory Reset

- ◆ Factory Reset : Press OK to return your STB to be factory default stage.
- ◆ Channel Backup : If press OK, it backs up the currently searched channel data.
- ◆ Channel Recovery : If press OK, all the current channel data is erased and the, it recovers the backup channel data.
- ◆ Delete All Channels : It deletes all the currently scanned channel data.

8. Direct Buttons

After successful searched channels you can navigate the TV Program with the direct Button on the Remote Control Unit. The following Buttons are available:

- a. OK Button
- b. SAT Button
- c. FAV Button
- d. FIND Button
- e. EPG Button [Guide]
- f. EDIT Button
- g. RECALL Button
- h. Zoom Button
- i. Multi Picture Button

a 8.1 OK Button



Image 15 OK Button

When you see any channel, press "OK" button and the channel's information via small window will be shown.

- ◆ SAT button : By pressing SAT button, you can search the channels by satellite.
- ◆ FAV BUTTON : By pressing FAV button, you can search the channels by Favorite group.
- ◆ Red button [Network] : By pressing Red button, you can search the channels by network.
- ◆ Green button [CAS] : By pressing Green button, you can search the channels by CAS.

- ◆ Yellow button [Sort] : By pressing Yellow button, you can sort the channels as "A to Z, Satellite, Network, CAS, Lock".
- ◆ Blue button [Edit] : By pressing Blue button, you can edit the channels properly as "Lock, Delete, Skip, Move, Rename channel" and "Add, Move, Rename Favorite".
- ◆ White button [Find] : By pressing White button, you can quick find the channel with pressing alphabetic buttons.
- ◆ FIND button : By pressing Fn button, you can see the multi picture screen.

8. Direct Buttons

b 8.2 SAT Button



Image 16 SAT Button

If you press SAT button, you can see the satellite list what you installed. If you select one, the list will be shown only the channels of selected satellite.

c 8.3 FAV Button



Image 17 FAV Button

If you press FAV button, you can see the favorite group list. If you select one, the list will be shown only the channels of selected favorite group.

8. Direct Buttons

d 8.4 FIND Button



Image 18 FIND Button

By pressing FIND button, you can see all channel list and small window for "Quick Find". You can press alphabet to find the channel.

e 8.5 EPG Button



Image 19 EPG Button

You can check the information of the current channels by using EPG button if the channel has the EPG information such as story, time table, etc.

Red button (Current/Next) : By pressing Red button, you can see the current or next channel schedule.

8. Direct Buttons

f 8.6 EDIT Button



Image 20 EDIT Button

You can edit the live channel by pressing Edit button.

- ◆ Add FAV : Press OK button to select FAV
- ◆ Lock Channel : Select Yes or No.
- ◆ Delete Channel : Select Yes or No.
- ◆ Skip Channel : Select Yes or No.
- ◆ Rename Channel : Press OK button to rename this channel.
- ◆ Volume Offset : You can control the volume of this channel -7 ~ +8
- ◆ Store : Press OK button to save.

g 8.7 Recall Button



Image 21 Recall Button

You can see the last 10 channel viewed with Pressing Recall button.

8. Direct Buttons

h 8.8 Zoom Button



Image 22 Zoom Button

To see the specific part widely, press ZOOM button. The small square box is designating that the part is magnified. By pressing Page up/down buttons, you can control 4 level magnifications.

i 8.9 Multi Picture Button ()



Image 23 Multi Picture

You can see the several channels on the screen at the same time. You can select the multi picture screen from 4/9/13/16 pictures. After then, if you select one channel by OK button, you can see the selected channel with bigger screen.

9. System Setup

Press MENU button and select "System Setup"



Image 24 System Setup

- a. Language
- b. TV Setup
- c. Time Setup
- d. Lock
- e. Product Information
- f. Others [Advance]

a 9.1 Language



Image 25 Language

You can select the language for Menu, Audio and subtitle.

9. System Setup

b 9.2 TV Setup



Image 26 TV Setup

You can set up the system for your TV. Aspect

- ◆ Ratio : You can select one among 16:9, 4:3, 4:3 Letter Box or 4:3 Center.
- ◆ Video Output : You can select one among RGB or CVBS. If you want to use S-Video, please select CVBS.
- ◆ SPDIF Output : If you want to use SPDIF, select ON.
- ◆ RF Type : You can select your RF modulator type.
- ◆ RF Channel : You can select the RF modulator channel between ch. 21 ~ 69.

c 9.3 Time Setup



Image 27 Time Setup

If you select GMT Off, you can set up the local time for Date, Hour and Minute. If you select GMT On, you can set up the follows.

- ◆ Time Zone : You can select a city where you belong to.
- ◆ Summer Time : During summer time period, you may select On.
- ◆ Time Offset : You can adjust time offset from -59 to +59.

9. System Setup

d 9.4 Lock



Image 28 Lock [Parental Lock]

You can set up or change password for receiver and each menu as follows.

- ◆ Channel Lock : You can lock the channel.
- ◆ Installation Lock : You can lock the installation menu.
- ◆ Receiver Lock : You can lock the receiver.
- ◆ Change PIN Code : You can change PIN Code.
After pressing "OK", please enter the current PIN Code (Initial code is 0000), and enter the new code what you want to change.

e 9.5 Product Information



Image 29 Product Information

You can see the product information for Model, Last Updated date, S/W Version, H/W Version, Loader Version:

1. Model Description
2. Last Update
3. Software S/W Version
4. Hardware Version
5. Loader Version

9. System Setup

f 9.6 Others [Advance]



Image 30 Others [Advance]

Channel Switch: You can select channel movement method among Auto, Direct or Delayed when you are watching small screen in the channel list.

- a. Auto : If you searched the channel with DiSEqC 1.2 or USALS, it will be selected "Delayed" automatically.
- b. Delayed : The small screen of the Channel List shows on the current channel. But if you press "OK" button, the screen will be changed the channel that is highlighting.
- c. Direct : The small screen of the Channel List is changed by changing the channels.

- ◆ Channel Number : You can select Satellite or All Channels.
- ◆ Channel Change Mod : You can select the channel changing mode among Picture Freeze, Picture Hide and Fade In/Out.
- ◆ Banner Timeout : You can select the banner bar appearing time.
- ◆ 0/12V Mode : You can switch 0V or 12V.
- ◆ Signal Beep Sound : If you select On, you can hear the signal beep sound when you get the signal.

10. Common Interface[Optional]



Image 31 Common Interface

1. Common Interface[Optional]

Users can enjoy not only scrambled services using the Conditional Access Modules (CAM), but also Free-To-Air services. This STB currently supports CAM. Common Interface module and Smart Card depend on the service provider.

2. Smart Card[Optional]

If your receiver has smart card slot, you can find the Card information what you inserted in this menu.

11 Utility

Press MENU button and select "Utility"



Image 32 Utility

- a. Edit Satellite
- b. Add Channel
- c. Calendar
- d. Game
- e. Bio Rhythm
- f. Calculator
- g. Timer Setup

a 11.1 Edit Satellite



Image 33 Edit Satellite

- ◆ Satellite : Select a satellite what you want to edit.
- ◆ LNB Type : Select your LNB type.
- ◆ LNB Low : Enter the LNB Low frequency value by pressing the numeric buttons.
- ◆ LNB High : Enter the LNB High value frequency by pressing the numeric buttons.
- ◆ East/West : Select the satellite position East or West
- ◆ Position : Enter the position of the satellite by pressing the numeric buttons.
- ◆ Satellite Sort : You can sort the satellite name on the SAT list by Default, Degree (Sat position), A to Z (Alphabetical).
- ◆ Store(Modify/Add) : If you want to modify the changed T/P information, select Modify, but if you want to add it, select Add.
- ◆ Delete : If you want to delete the changed T/P information, press OK.

11 Utility

b 11.2 Add Channel



Image 34 Add Channel

- ◆ Satellite : Select a satellite that is including the channel what you want to add
- ◆ Transponder : Select TP frequency.
- ◆ Channel Name : Enter the new channel name by pressing the alphabetic buttons.
- ◆ Video PID : Enter the Video PID value by pressing the numeric buttons.
- ◆ Audio PID : Enter the Audio PID value by pressing the numeric buttons.
- ◆ PCR PID : Enter the PCR PID value by pressing the numeric buttons.
- ◆ Store : Press OK to save data.

c 11.3 Calendar



Image 35 Calendar

You can see the calendar.

You have the following Buttons as navigation.

1. Button red : move the years backward
2. Button green : move the years ahead
3. Button yellow : move the months backward
4. Button blue : move the months ahead

With Button [CH up/Ch down] you can move the cursor within a month on the up and down.

With Button [VOL left/VOL right] you can move the cursor within a month on the left and right site.

11 Utility

d 11.4 Game

There are four kinds of game. Please select a game.

11.4.1 TETRIS



Image 36 Game, TETRIS

11.4.2 Push Push



Image 37 Game, Push Push

11.4.3 Tic Tac Toe



Image 38 Game, Tic Tac Toe

11.4.4 Snake



Image 39 Game, Snake

11 Utility

e 11.5 Bio Rhythm

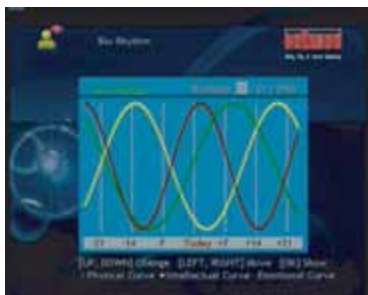


Image 40 Bio Rhythm

You can check your bio rhythm by entering your birthday. After pressing OK Button you get a Bio Rhythm diagram with the following colours:

1. green : physical curve
2. yellow : intellectual curve
3. red : emotional curve

f 11.6 Calculator



Image 41 Calculator

- ◆ RED : +
- ◆ GREEN : -
- ◆ YELLOW : X
- ◆ BLUE : /
- ◆ WHITE : Reset
- ◆ OK : =

11 Utility

9 11.7 Timer Setup



Image 42 Timer Setup

You can adjust time for Wake up, Reminder, Sleep and VCR.

- ◆ Timer : Make a number of this setup.
- ◆ Mode : Select one among Wake up, Reminder, Sleep and VCR.
- ◆ Frequency : Select one among Once, Daily, Weekly, Everyday M-F.
- ◆ Channel : Select the channel name.
- ◆ Start Date, Time : Appoint the start date and time.
- ◆ Stop Date, Time : Appoint the stop date and time.
- ◆ Store : Press OK to save.

12 Technical Data

1 Tuner & Demodulator

Input Frequency	950 MHz to 2150 MHz
Input Signal Level	-30 to -65dBm
Input Impedance	75 ohm nominal
Input Connector	F-type, IEC 169-24, Female
FEC Decoder	Convolution Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8 with Constraint Length K=7
Demodulation	QPSK
Symbol rate	1-45 Ms/s SCPC/MCPC
IF Frequency	Zero IF
LNB Power & Polarization	Ver. 13 V / Hor. 18V, 500mA max. overload protection
Band Switch Control	22KHz Ton
22KHz Ton	Frequency: 22 ± 2 KHz Amplitude : 0.6 ± 0.2V
DiSEqC Control	DiSEqC. 1.0, 1.1 / DiSEqC 1.2 Compatible
Positioner	USALS compatible

2 Memory

Processor	NEC 61114 (NEC EMMA2LL)
Flash Memory	2 Mbytes
SDRAM	16 Mbytes
Satellite Capacity	100
Channel Capacity	6,000

12 Technical Data

3 Audio / Video Decoding

Video Decoder	MPEG-2 MP@ML (ISO/IEC 13818-2) Transport Stream Specification
Input Rate	60Mbit/s Max
Video Resolution	720 x 576(PAL), 720 x 480(NTSC)
Aspect Ratio	16:9, 4:3, 4:3 Letter Box or 4:3 Center
Audio Decoder	MPEG Layer I &II
Audio Mode	Mono L/R, Dual Channel, Joint Stereo, Stereo
Audio Sampling Frequency	32, 44.1, 48 KHz
Graphic Engine	3-display Plane 1-Background Plane / 256 Full Color
RF-Connect	75Ohm, IEC1169-2, Male/Female
Frequency	470MHz to 860MHz
Output Channel	CH21 - 69
TV Standard	PAL-G,PAL-M,PAL-I,PAL-K and NTSC/M, AUTO

4 Audio / Video Output

TV SCART	Video Output(CVBS, RGB), Audio Output
VCR SCART	Video Output(CVBS), Video Input(CVBS, RGB)
Video	RCA composite
Audio R/L	RCA/Cinch Volume & Mute Control
S/PDIF	Digital Audio OutputDOLBY DIGITAL 5.1 Pass-through

12 Technical Data

5 Serial Data Interface

Connector Type	9 Pin D-Sub (male)
Signal	RS-232C, Max. 115200Bps

6 Power Supply

Supply Voltage	DC12V~24V
Power Consumption	Max. 30W

7 General

Operating Temperature	$\pm 0^{\circ}\text{C} \sim +50^{\circ}\text{C}$
Storage Temperature	-20 C~ +65 C - Physical Specification
Dimensions	260 (W) x 210 (D) x 45(H) mm
Weight (Net)	Approx. 1.2 Kg

13 Trouble Shooting

Trouble Shooting

Possible Causes	Solution
No picture but on screen menus appear!	
Satellite system is incorrectly installed.	Check all connections and leads, adjust satellite antenna, check LNB.
Faulty LNB	Replace LNB
Faulty TP	Replace TP
High levels of signal loss through cables	Use a signal booster or replace cables
Faulty connection	Repair connection
Remote control not working!	
Batteries exhausted	Check batteries
Incorrect function selected	Press correct function key
Remote control not pointed at device	Make sure your remote control is pointing on your device
No stereo sound!	
Incorrect cable connecting receiver and TV	Check SCART cable
Check SCART cable	Check volume value

If you have a problem and it could not solve so please never hesitate and contact your special dealer or Manufacturer.

Caution in Use OCTAGON SF218 Camping ;

- 1. You should power on of OCTAGON SF218 Camping after starting of your motor of car. Then, you can keep preventing car battery discharge as well as being stable PRODUCT'S quality.**
- 2. OCTAGON SF218 Camping might be worked by a little time delay due to the limited power supply from 12V-24V Cigar socket. Because it should be also provided LNB, Monitor, PRODUCT at the same time. It do not indicate you as a defect of PRODUCT.**