IKUSI
velatia
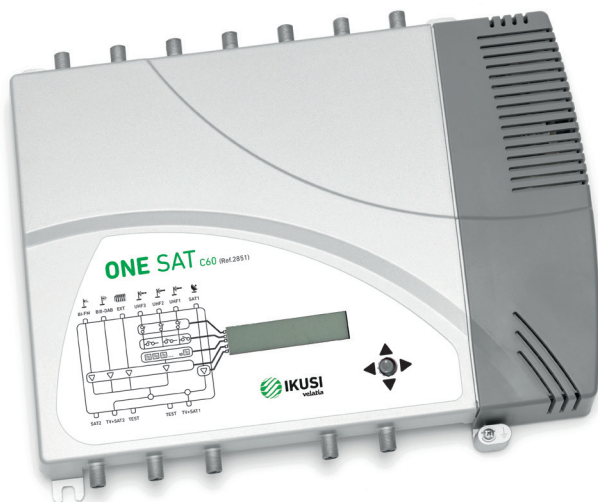
ONE series
ONESAT ; ONE118 ; ONEHOME

Programmable multichannel amplifiers

Index

General safety instructions

■ Read all of this user manual carefully before plugging in the equipment.

■ Always have these instructions to hand during installation.

■ Follow all of the instructions and safety notices regarding equipment handling.

Types of notices

The meaning of the safety notices used in this manual are described below.

DANGER OF DEATH OR INJURY

This safety notice indicates a possible danger for the life and health of people. Not following these instructions may lead to serious consequences to health and may even cause fatal injuries.

RIESGO DE DAÑO EN EL EQUIPO

Este aviso de seguridad indica una posible situación peligrosa. La no observación de estas indicaciones puede provocar daños materiales en el equipo.

NOTE

This type of notice is a note containing applicable advice and useful information for optimum use of the equipment.

HANDLING THE INSIDE OF THE EQUIPMENT IS FORBIDDEN

This notice forbids any work that may affect the working order of the equipment or its warranty.

DO NOT DISPOSE OF AS URBAN WASTE

This type of notice indicates that the equipment must not be disposed of as unselected urban waste.

4

Basic safety instructions

DANGER

DANGER OF DEATH OR INJURY

■ Do not install the equipment during an electrical storm. This could lead to electrostatic discharge from lightning.

■ Do not open the equipment. This could lead to electric discharge.

ATTENTION

RISK OF EQUIPMENT DAMAGE

■ The equipment must be appropriately ventilated. Install the equipment in a dust-free location. Do not place the equipment in a location where the ventilation slots are covered or blocked. Install the equipment in a location with at least 20 cm around it free of other objects.

■ Do not expose the equipment to rain or moisture. Install the equipment in a dry location with no infiltration or condensation of water. Should a liquid enter the equipment, disconnect it immediately from the mains.

■ Keep the equipment away from flammable objects, candles and anything that may cause a fire.

■ Connect the equipment to an easily accessible power socket. In the event of an emergency, it will then be possible to quickly unplug the equipment.

■ Do not expose the equipment to sources of heat (sun, heating, etc.).

Introduction

General description
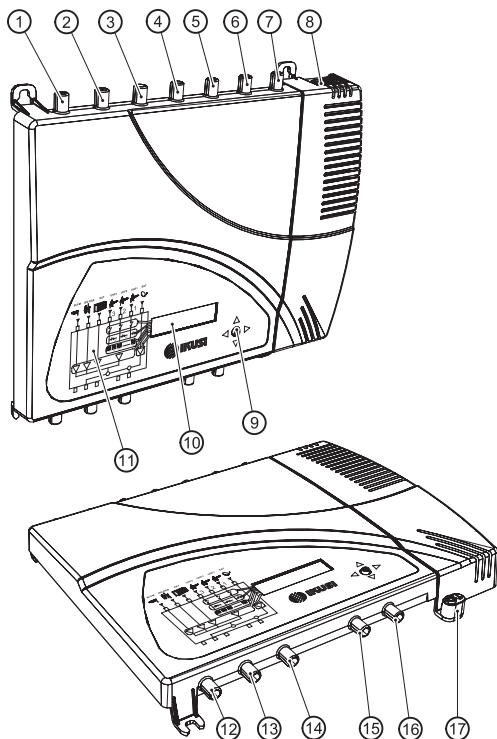
KEY

1. BI–FM input
2. BIII–DAB input
3. VHF–UHF/EXT input *
4. UHF3 input
5. UHF2 input
6. UHF1 input
7. SAT–IF1 input *
8. Mains connector
9. Control button
10. Screen (LCD)
11. Front panel with cluster map
12. SAT-IF2 input with no amplification *
13. Output 2; TV+SAT2 *
14. Output test 2*
15. Output test 1
16. Output 1; TV+SAT1 **
17. Earthing

* ONE SAT model only

** *In ONE 118 model TV only*

Main features

The ONE118, ONESAT and ONEHOME models are programmable amplification headends designed to selectively filter analogue and digital UHF channels. Suitable for single-family and collective dwellings, they are the ideal solution for managing signals of different frequencies and bandwidths.

FM and VHF signals are also amplified. The ONE SAT model also amplifies satellite IF signals. Individual adjustment of each frequency filter, number of channels and automatic gain control allows for level equalize of selected channels.

■ Programming:

  □ Self-installation function.

  □ All settings are automatically memorised.

  □ No external programmer required, programmed directly from the headend.

- ☐ Reprogrammable as many times as required.
- ■ 10 tuneable UHF filters with the capacity to process 1 to 5 channels each.
- ■ Signal processing:
    - ☐ Terrestrial inputs with low noise figure (< 6 dB).
    - ☐ Satellite input with low noise figure (< 9 dB).
    - ☐ Automatic signal level equalisation.
    - ☐ Automatic gain control.
- ■ Extra functions:
    - ☐ Internal configuration cloning with transferral to another equipment.
    - ☐ Equipment locking by security code.
- ■ Dimensions : 290 mm x 240 mm x 20 mm
- ■ Weight: 2 kg

ONE118 (3 models) (see data sheet in page 20)

Recommended for small and medium-sized installations made up of 10 UHF filters delivering an output level of 118 dBμV.

- ■ Inputs:
    - ☐ 5 terrestrial inputs = BI-FM, BIII-DAB, UHF1, UHF2, UHF3
    - ☐ BI-FM gain = 35 dB
    - ☐ BIII-DAB gain = 40 dB
    - ☐ UHF gain = 55 dB
- ■ Outputs:
    - ☐ 1 TV output
    - ☐ 1 Test output
    - ☐ VHF/UHF output level = 118 dBμV [1]
      [1] IMD3-60 dB, DIN 45004B (see channel reduction table in Technical Annex)

ONESAT (3 models) (see data sheet in page 21)

Recommended for small and medium-sized installations, comprising 10 UHF filters it includes one satellite input and two mixed television-satellite outputs. CTI compliant.

Compatible with UNICABLE ™

- ■ Entradas:
    - ☐ 6 terrestrial inputs= BI-FM, BIII-DAB, UHF1, UHF2, UHF3, VHF-UHF/EXT.
    - ☐ 2 satellite IF inputs.
    - ☐ BI-FM gain = 30 dB (2 outputs) or 35 dB (1 output).
    - ☐ BIII-DAB gain = 35 dB (2 outputs) or 40 dB (1 output).
    - ☐ UHF gain = 55 dB (2 outputs) or 60 dB (1 output).

- □ VHF-UHF/EXT gain = 35 dB (2 outputs) or 40 dB (1 output).
- □ SAT1 gain = 40 dB.
- □ SAT2 gain = -1.5 dB.

■ Outputs (2 configurable outputs):

a)

- □ 2 TV+FI outputs
- □ 2 Test outputs
- □ VHF output level = 113 dBµV [1]
- □ UHF output level = 118 dBµV [2]
- □ FI/Sat output level = 116 dBµV [2]

b)

- □ 1 TV+FI output
- □ 1 Test output
- □ VHF output level = 118 dBµV [1]
- □ UHF output level = 123 dBµV [1]
- □ IF/SAT output level = 116 dBµV [2]

[1] Terrestrial: IMD3-60 dB, DIN 45004B

[2] Satellite: IMD3 -35dB, EN50083-3. See channel reduction table in Technical Annex

ONEHOME (3 models) (see data sheet in page 22)

Recommended for small installations made up of 10 UHF filters delivering an output level of 118 dBµV.

■ Inputs:

- □ 2 terrestrial inputs = BI-FM, UHF1
- □ BI-FM gain = 2 dB.
- □ UHF gain = 40 dB.

■ Outputs:

- □ 1 TV output.
- □ 1 Test output.
- □ VHF/UHF output level = 113 dBµV [1]

[1] IMD3-60 dB, DIN 45004B See channel reduction table in Technical Annex

General equipment use

Interaction with the equipment using the button and the interpreting of the instructions displayed on the LCD screen are described below. The programme includes a main menu formed by submenus that can be selected to modify the equipment operating settings.

Instructions displayed on the LCD screen

◀
◀
This symbol is displayed when manual setting is selected. It refers to the clusters indicated on the panel.

■ This symbol is displayed in the manual setting menu. Visually locate it on the LCD screen and see the cluster map on the panel to see which of the 5 equipment clusters is selected.

This acronym is displayed in the main menu. Select it to go back to the language selection menu.

This symbol is displayed in manual settings and advanced settings and visually indicates the possibility of moving vertically.

This symbol is displayed in manual and advanced settings and always includes a numeric value and visually indicates the gain level.

This icon is displayed when the equipment lock is enabled when the equipment is switched on and after periods when the equipment is not in use.

Vertical button movement

In the menus and submenus, move the button up or down to browse upwards and downwards position by position.

In the settings, move the button up or down to modify values position by position.

NOTE
Keep the button pressed up or down to browse or to modify values more quickly.

Horizontal button movement

In the menus, move the button to the left or the right to select and go back position by position.

In the settings, move the button to the left or the right to browse, select and go back position by position.

NOTE
Keep the button pressed to the left or to the right to browse more quickly.

Press button

In the menus, this selects the submenu.

In the submenus, this selects the setting.

In the settings, this selects the parameter value.

Equipment installation and configuration

Only the LCD screen and the button are required to configure the equipment. Follow the steps below to install the equipment and configure the different parameters.
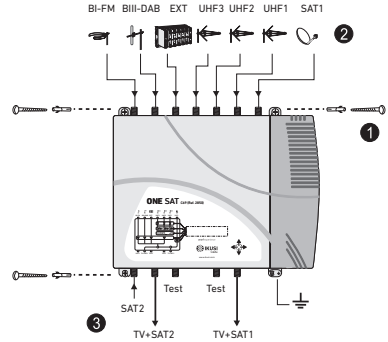
Installation

ATTENTION

RISK OF EQUIPMENT DAMAGE

Mechanical handling of the equipment while it is switched on may lead to it being damaged. Do not plug the equipment into the mains before or during installation.

1. Fit and tighten the bolts and plugs securing the equipment to the wall.

2. Connect the coaxial cable from the aerial to the equipment.

3. Connect the coaxial cables from the outputs to the equipment.
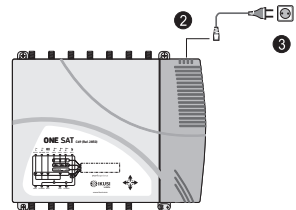   If only one of the 2 outputs is used, terminate the spare port with a 75Ω loadplug.

Power connection

DANGER

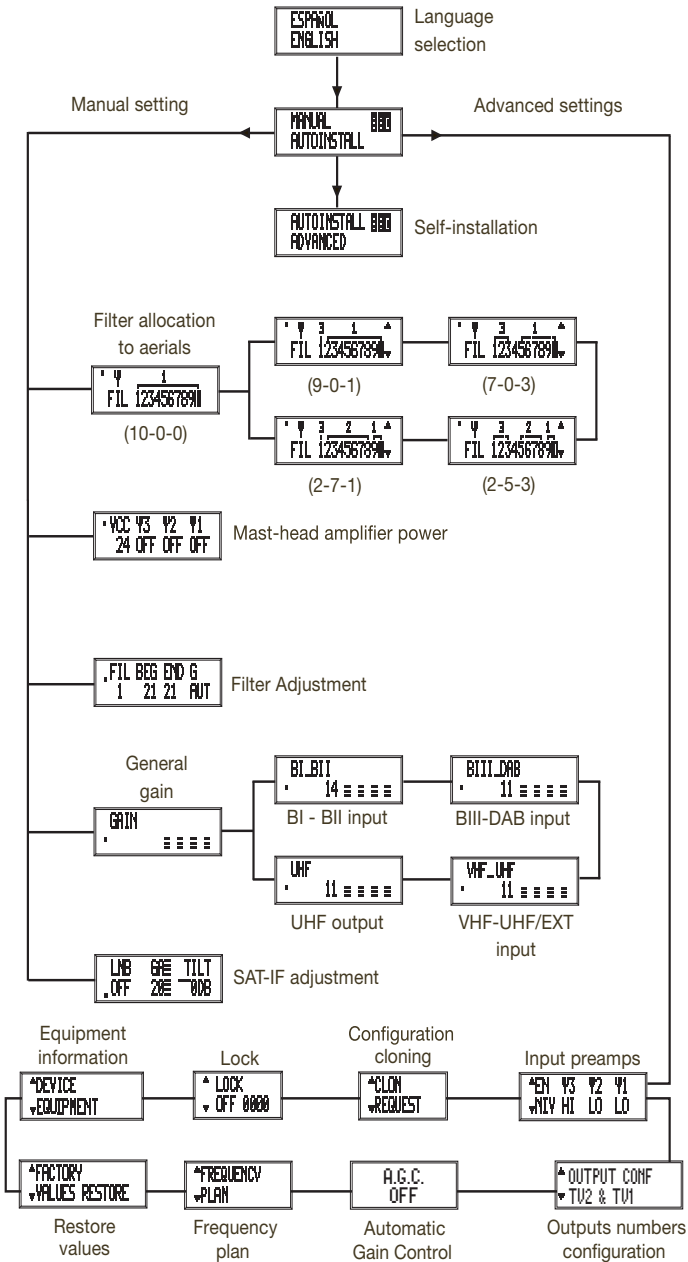**DANGER OF DEATH OR INJURY**

Incorrect equipment power connection may cause an electric shock. Follow the steps below for the electrical installation of the equipment.

1. Connect the ground cable.

2. Connect the power plug to the equipment mains connector.

3. Connect the power plug to the mains socket.

Quick menu guide

```
ESPAÑOL
ENGLISH
```
Language
selection

Manual setting
```
MANUAL    ▓▓▓
AUTOINSTALL
```
Advanced settings

```
AUTOINSTALL ▓▓▓
ADVANCED
```
Self-installation

Filter allocation
to aerials
```
· ▼      1
FIL 123456789▓
```
(10-0-0)

```
· ▼   3   1  ▲
FIL 123456789▓▼
```
(9-0-1)

```
· ▼   3   1  ▲
FIL 123456789▓▼
```
(7-0-3)

```
· ▼   3  2  1  ▲
FIL 123456789▓▼
```
(2-7-1)

```
· ▼   3  2  1  ▲
FIL 123456789▓▼
```
(2-5-3)

```
·VCC V3  V2  V1
 24 OFF OFF OFF
```
Mast-head amplifier power

```
·FIL BEG END G
  1   21  21  AUT
```
Filter Adjustment

General
gain
```
GAIN
·        ====
```

```
BI_BII
·     14 ====
```
BI - BII input

```
BIII_DAB
·     11 ====
```
BIII-DAB input

```
UHF
·     11 ====
```
UHF output

```
VHF_UHF
·     11 ====
```
VHF-UHF/EXT
input

```
LNB  GNE TILT
·OFF  20E  0DB
```
SAT-IF adjustment

Equipment
information
```
▲DEVICE
▼EQUIPMENT
```

Lock
```
▲ LOCK
▼ OFF 0000
```

Configuration
cloning
```
▲CLON
▼REQUEST
```

Input preamps
```
▲EN  V3  V2  V1
▼NIV HI  LO  LO
```

```
▲FACTORY
▼VALUES RESTORE
```
Restore
values

```
▲FREQUENCY
▼PLAN
```
Frequency
plan

```
A.G.C.
OFF
```
Automatic
Gain Control

```
▲ OUTPUT CONF
▼ TV2 & TV1
```
Outputs numbers
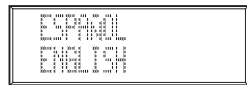configuration

Language selection

NOTE

Over the following pages, the field locating and selection method is primarily indicated by the "vertical button movement" and "press button" icons. However, horizontal button movement can be used to locate and select fields, as indicated in the General equipment use.

NOTE

The equipment automatically accesses language selection a few sections after the welcome message is displayed. Language selection can also be accessed by going back from the main menu.

1) Locate and select the language: ESPAÑOL – ENGLISH – FRANÇAISE.

2) Access the main menu.

Manual setting

1) In the main menu, locate and select MANUAL.

NOTE

The cluster map on the equipment panel indicates the cluster related to each submenu.

Filter allocation to antennas

NOTE

There are five different configurations to distribute the 10 filters among the 3 antennas.

1) Locate and select the aerial filter configuration (the aerial distribution is displayed at the top of the screen and the 10 filters available are displayed at the bottom):

■ For one antenna:

a) Configuration (10 – 0 – 0)

■ For two antennas:
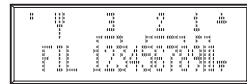
b) Configuration (9 – 0 – 1)

c) Configuration (7 – 0 – 3)

- For three antennas:

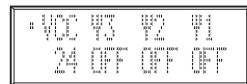 d) Configuration (2 – 5 – 3)

  e) Configuration (2 – 7 – 1)

Mast–head amplifier power configuration

NOTE

Only where a mast–head amplifier is fitted to the antenna.

1) Locate and select the UHF input voltage: VDC, 24 / 12.

2) Locate and select UHF input voltage enabling (ON) / disabling (OFF):

   f) UHF3 input voltage: $\Psi 3$, ON / OFF

   g) UHF2 input voltage: $\Psi 2$, ON / OFF

   h) UHF1 input voltage: $\Psi 1$, ON / OFF

Filter adjustment

Frequency configuration

1) Locate and select the filter to adjust: FIL, 1 – 10.

2) Locate and select the filter start channel: BEG, 21 – 69.

3) Locate and select the filter end channel: END, 21 – 69.
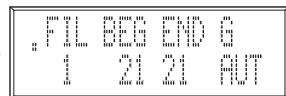
Gain configuration

NOTE
If AUT is selected (recomended), the AGC will try and maintain the output at factory preset level. If M is selected the AGC will maintain the output at the level you have set.

1) Locate and select the gain configuration mode AUT / M.
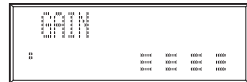
i) If AUT is selected: self-equalising is configured.

j) If M is selected: locate and select the gain level 00 – 30.

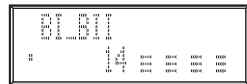**General gain adjustment**

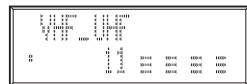1) Locate and select the gain submenu:

2) Locate and select the gain level:

k) BI - BII input: BI_BII, 0 - 25
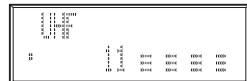
l) BIII - DAB input: BIII_DAB, 0 - 20

m) VHF-UHF/EXT input: VHF_UHF, 0 - 20

n) UHF output: UHF, 0 - 20

SAT-IF output adjustment

LNB power configuration

N NOTE

There are 5 different configurations to select polarisation.

1) Locate and select polarisation:

o) No polarisation: LNB, OFF.

p) 18 V with tones: LNB, 18 V▲▲.

q) 18 V without tones: LNB, 18 V.

r) 13 V with tones: LNB, 13 V▲▲.

s) 13 V without tones: LNB, 13 V

Output gain configuration

1) Locate GA and select level 0 - 20.

Emphasis among high frequencies

N NOTE

If TILT is selected, the equipment applies 9 dB of pre-emphasises.

1) Locate and select TILT to change the level of pre-emphasis between 0 and 9 dB.

Advanced settings

1) In the main menu, locate and select ADVANCED.

Input preamps

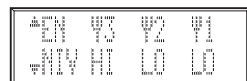**N** NOTE

The gain difference between an enabled and a disabled amplifier is 20 dB. Select LO to enable an amplifier.
If the gain is set to automatic in filter configuration, the system manages preamp enabling according to the input level.

1) Locate and select UHF input preamps

t) UHF3 input: $\Psi 3$, HI / LO.

u) UHF2 input: $\Psi 2$, HI / LO.

v) UHF1 input: $\Psi 1$, HI / LO.

Filters cloning

NOTE

Cloning begins automatically after the following steps.

1) Connect two equipments using a coaxial cable in the Test 1 output of each equipment (see position (15) in the illustration in the General Description.

2) On the equipment receiving the information: locate and select MASTER OFF, SLAVE ON.

3) On the equipment sending the information: locate and select MASTER ON, SLAVE OFF..

NOTE

The time waited for cloning to be run (steep 2 to 3) is 11 seconds. Where cloning cannot be started, the equipment returns to the higher menu.

Equipment locking

NOTE

The lock is enabled when the equipment is re-connected.

1) Enter a sequence of 4 digits (LOCK, 0000).

2) Locate and select LOCK, ON.

NOTE

To unlock the equipment, enter and select the 4-digit sequence on the start screen. To cancel equipment locking, locate and select LOCK, OFF. If you forget the 4-digit sequence see: Troubleshooting.

Specific equipment information

NOTE
Information on the equipment, the programme version, the manufacturing date, the number of hours operating, the temperature and the equipment serial number are displayed on the screen.

```
▲DEVICE
▼EQUIPMENT
```

Restore factory values

CAUTION
This function will mean that all previous configurations will be lost and the factory values will be restored.

1) Select OK to restore factory values.

```
▲FACTORY
▼VALUES RESTORE
```

```
▲RESTORE VALUES?
▼ OK
```

Frequency plan

NOTE
You can choose between two different chan-nel allocations for the UHF band. These allo-cations depend on the geographic territory. By default the equipment is configured for the European allocation.

1) In the advanced menu, located and select FREQUENCY PLAN.

w) If EUROPE is selected the channel allocation is for European standards.

x) If AUSTRALIAN is selected the channel allocation is for Australian standard.

```
▲FREQUENCY
▼PLAN
```

```
▲EUROPE
▼AUSTRALIA
```

Automatic Gain Control

NOTE
You can choose to activate the automatic gain control. By default the equipment is configured in OFF position.

1) Locate and select A.G.C. in ON position.

```
A.G.C.
OFF
```

Outputs number configuration

NOTE

You can choose two types of configuration for Outputs No: TV2 & TV1 or TV1.
By default your equipment is configured for two outputs (TV1 & TV2).

1) In the advanced menu, located and select OUTPUT CONFIGURATION TV2&TV1.

   y) OUTPUT CONF TV2 & TV1 select

`OUTPUT CONF`
`TV2 & TV1`

`OUTPUT CONF`
`TV1`

Self-installation

NOTE

The equipment automatically configures the optimum operating frequency and gain of the UHF filters. The equipment does not automatically configure the output level of general (band) gains. This is because the output level must be set by the installer to suit the network you are feeding.

1) In the main menu, locate and select AUTOINSTALL.

`AUTOINSTALL`
`ADVANCED`

   a) If NO is selected: you will return to the main menu.

`BEGIN AUTO`
`YES  NO`

   b) If YES is selected: self-installation will begin...

NOTE

The equipment displays information on the status of self-installation. Please wait a few seconds until it is completed and AUTOINSTALL COMPLETED is displayed.

`SCANNING`
`AERIAL 1.`

2) Select OK to complete self-installation. The unit will now show you the general (band) gain settings for adjustment.

`EQUALIZING`
`FILTERS`

3) To change the output level of general gains, see: General gain adjustment.

`AUTOINSTALL`
`COMPLETED`

4) To review the allocation of filters to aerials, see: Allocation of filters to antennas.
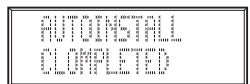
Maintenance

Equipment care

HANDLING THE INSIDE OF THE EQUIPMENT IS FORBIDDEN

Do not dismantle or try to repair the equipment, its accessories or its components. This will render the warranty null and void.

- Do not use the power cable if it is damaged.
- To disconnect the power cable, pull carefully on the plug and not the cable.
- To clean the panel and equipment connections:
  - ☐ Unplug the equipment.
  - ☐ Clean with a slightly damp, soft cloth.
  - ☐ Allow to dry completely before use.
- Do not spill liquid onto the equipment.
- Keep ventilation slots free of dust and any foreign bodies.

Troubleshooting

The most frequent problems arising during equipment installation are indicated below. If you encounter any other type of problem, please contact the equipment sales team.

Problem	Possible cause	What to do
Forgotten unlock code.	_	Contact your point of sale.
Nothing displayed on LCD screen.	The power cable is not connected properly.	Check the power cable.
The channels do not adjust to the programmed output level.	Lack of signal or unsuitable channel level.	Check that the channel programmed in the highest output channel has a signal and appropriate level. This is used as a reference for output level adjustment.
The display shows that there has been a short circuit.	Bad connection in the UHF input.	Check the input connection cables. Unplug the network connection cable and reconnect it.

Technical specifications

ONE118 models

MODEL	REF.	ONE118 Series				
ONE118-C69	2853	Frequency range (MHz)	47 – 108	174 – 240	**470 - 862**	
ONE118-C60	2854				**470 - 790**	
ONE118-C48	2855				**470 - 694**	
Inputs			1 BI/FM	1 DAB/BIII	3	
					UHF 3 UHF 2 UHF 1	
Input configuration Number of programmable UHF filters per input		—			0 0 10 1 0 9 3 0 7 3 5 2 1 7 2	
Gain	dB		35	40	35/55 switchable	
Gain adjustment	dB		25	20	30	
Noise figure	dB	< 6				
Optimum input margin	dBμV		60 – 85	60 – 80	50 – 100	
Return losses	dB	> 10				
Selectivity (± 10 MHz of channel ends)	dB				10	
Uncoupling between inputs	dB		—		> 20	
Output level	dBμV		118 *[1]	118 *[1]	118 *[1]	
Output level adjustment	dB	20				
AGC tolerance	dB		—		± 1	
Switchable preamplifier voltage	V		—		off–12–24	
Maximum preamplifier current	mA		—		100	
Test output	dB	–30				
Mains voltage	VAC	110 – 240				
Consumption	W	15				
Operating temperature	°C	–5 ... +50				
Dimensions	mm	300 x 250 x 40				

*[1] IMD3 -52 dBc (DIN 45004B)

Technical specifications

ONESAT models

MODEL	REF.	ONESAT Series								
ONESAT-C69	2850	Frequency range (MHz)	47 – 108	174 – 240	47 – 240 / 470 – 862	470 – 862			950 – 2150	
ONESAT-C60	2851					470 – 790				
ONESAT-C48	2852					470 – 694				
Inputs			1 BI/FM	1 DAB/BIII	1 EXT (VHF/UHF)	3			1 FI-SAT 1	1 FI-SAT 2 (passive)
						UHF 3	UHF 2	UHF 1		
Input configuration Number of programmable UHF filters per input			–			0 1 3 3 1	0 0 0 5 7	10 9 7 2 2	–	
Gain	config TV2 & TV1	dB	30	35	35	35/55 switchable			40	-1.5
	config TV1		35	40	40	40/60 switchable			40	
Gain adjustment		dB	25	20		30			20	
Noise figure		dB	< 6						< 9	
Optimum input margin		dBµV	60 – 85	60 – 80		50 – 100			40 – 80	
Return losses		dB	> 10							
Selectivity (±10MHz of channels ends)		dB	–			10			–	
Uncoupling between inputs		dB	–			> 20			–	
Output level	config TV2 & TV1	dBµV	113 *1	113 *1	VHF: 113 UHF: 118 *1	118 *1			122 *2	
	config TV1		118 *1	118 *1	VHF: 113 UHF: 123 *1	123 *1			122 *2	
Output level adjustment		dB	20							
AGC tolerance		dB	–			± 1			–	
Switchable preamplifier voltage		V	–			off-12-24			off-13-18	
Maximum preamplifier current		mA	–			100			300	
Preamplifier tones		kHz	–						0-22	
Slope adjustment		dB	–						0-9	
Test output		dB	-30							
Mains voltage		VAC	110 – 240							
Consumption		W	20							
Operating temperature		ºC	-5 ... +50							
Dimensions		mm	300 x 250 x 40							

*1 IMD3 -52 dBc (DIN 45004B)
*2 IMD3 -35 dBc (EN 59983-3)

Technical specifications

ONEHOME models

MODEL	REF.	ONEHOME Series				
ONEHOME-C69	2856	Frequency range (MHz)	47 - 108	470 - 862		
ONEHOME-C60	2857			470 - 790		
ONEHOME-C48	2858			470 - 694		
Inputs			1 BI/FM	1 UHF		
Input configuration Number of programmable UHF filters per input			—	10	0	0
				9	0	1
				7	0	3
				2	5	3
				2	7	1
Gain	dB		-5	20/40 switchable		
Gain adjustment	dB		—	30		
Noise figure	dB		—	< 6		
Optimum input margin	dBµV		—	50 - 100		
Return losses	dB		> 10	> 10		
Selectivity (± 10 MHz of channel ends)	dB		—	10		
Output level	dBµV		—	113 *[1]		
Output level adjustment	dB		—	20		
AGC tolerance	dB		—	± 1		
Switchable preamplifier voltage	V		—	off-12-24		
Maximum preamplifier voltage	mA		—	100		
Test output	dB		-30			
Mains voltage	VAC		110 - 240			
Consumption	W		10			
Operating temperature	ºC		-5 ... +50			
Dimensions	mm		300 x 250 x 40			

Technical annex

BROADBAND TERRESTRIAL TV AMPLIFIERS : The RF output levels specified in this catalogue for IMD3=-60 dB (DIN 45004 B) are applicable when 2 analog TV channels are amplified. If, as is usual, more than 2 TV channels are amplified, such levels have to be reduced according to the following table:

Number of Channels (n)		2	3	4	5	6	7	8	9	10	15	20
Output level reduction = $7.5 \cdot \log (n-1)$	dB	0	2	3.5	4,5	5	5.5	6	6.5	7	8.5	9.5

FM, DAB AND COFDM SIGNALS : If output levels of the FM, DAB and Digital TV (COFDM) signals are adjusted 10 dB or more below the levels of the analog TV channels, those signals can be ignored when calculating the output reduction level. If referred levels are not reduced as indicated, those signals must be counted as normal channels and the output level de-rated accordingly.

BROADBAND SATELLITE TV OR DIGITAL TERRESTRIAL TV AMPLIFIERS : The RF output levels specified in this catalogue for IMD3=-35 dB (EN 50083-3) are applicable when 1 FM-, QPSK- or COFDM-modulated TV channel is amplified. For a bigger number of channels, such levels have to be reduced according to the following table:

Number of Channels (n)		2	3	4	5	6	7	8	9	10	15	20
Output level reduction = $10 \cdot \log n$	dB	3	4.5	6	7	8	8.5	9	9.5	10	11.5	13

CASCADE REDUCTION : When m same-type broadband amplifiers are laid out in cascade, an additional reduction of the output level equals $10 \cdot \log m$ must be taken into account for every amplifier.

Warranty

Notwithstanding any complaints made to the direct vendor of the product, IKUSI offers equipment users a two-year warranty as of the invoice date, which shall become valid on presenting the receipt of purchase.

During the warranty period, IKUSI is responsible for any faults arising due to material or manufacturing defects and shall repair the receiver or replace it for another corresponding to the state of technology at that time. The warranty does not cover any faults or defects due to misuse or non-fulfilment of the information given in this installation manual.

All complaints other than those indicated are not included in the warranty. More specifically, the warranty does not cover services provided by the authorised vendor (e.g. installation, configuration or programme updates) or the repair of any damages or injuries caused to the client or others as a result of the installation or of receiver operations.

Equipment recycling

RECYCLING OF ELECTRICAL AND ELECTRONIC EQUIPMENT

(Applicable in the European Union and in European countries with selective waste collection systems.)

This symbol on your equipment or its packaging indicates that this product cannot be treated as general domestic waste and must be handed in at the corresponding point of collection for electric and electronic equipment. By ensuring this product is disposed of correctly you will help prevent negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. Recycling of materials helps preserve natural resources. For more detailed information on the recycling of this product, please contact your local council, your nearest collection point or the distributor from whom you purchased the product.
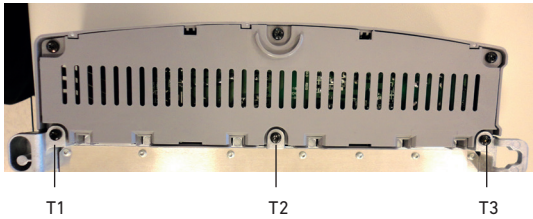
ONE. Replacing the Power Supply

fig 1

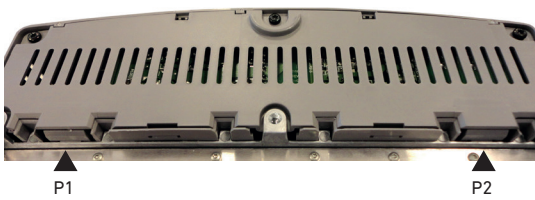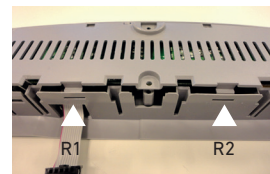T1   T2   T3

fig 2

P1   P2

fig 3

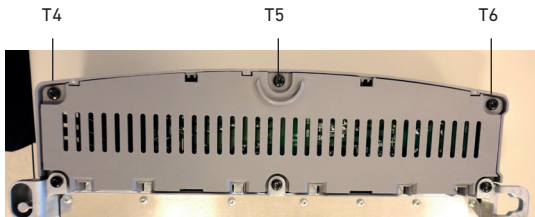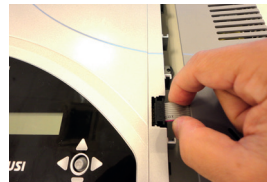
T4   T5   T6
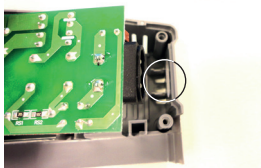

fig 4

fig 5

R1   R2

fig 6

1. Disconnect from the power network
2. Loosen screws T1, T2 and T3 (fig 1).
3. Press the tabs P1 and P2 while sliding the power supply downwards, on its guides (fig 2).
4. Release the plug that joins the amplifier (fig 3).
5. Loosen the screws T4, T5 and T6 of the cover of the power supply and release it from the grooves R1 and R2 (fig. 4, 5).
6. Remove the power supply replacing it with the new one (fig 6).
7. Close the cover and connect the plug.
8. Slide the power supply over the amplifier guides.
9. Screw T1, T2 and T3.
10. Connect to the power network

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ONE (en)