SML-5112W

User Guide

1 Thank you for choosing us

The SML-5112W is a small-form solution, but still high performance set-top box (STB) capable of delivering to your home the exciting world of cutting edge interactive services.

This manual contains a description of all possible features and options of SML-5112W, however your device may look slightly different from the one pictured in this document.

The packaging and configuration of your device, such as presence or absence of certain connectors, are defined by the service provider.

Information about interactive television services available through the set-top box is given by your service provider in a separate manual (not included).

2 Distribution kit

▷ SML-5112W set-top box

▷ DC adapter 12V 2.5A

▷ HDMI cable

▷ Remote control (RC)

▷ Quick start guide in English

3 Safety and storage

Read this manual before using the set-top box (STB). Please, follow the precautions and operating instructions.

▷ Do not open or repair the STB by yourself. Improper repair may result in electrical shock or fire. In addition, the STB is removed from the warranty.

▷ Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

▷ The STB is intended for the indoors use only, with air temperature from 0°C to 35°C (from 32°F to 95°F) and 30-70% of relative humidity, non-condensing.

▷ Use only power supplies listed in the user instructions.

▷ Do not use the STB if the power cord is damaged.

▷ To reduce the risk of fire or electrical shock, do not expose the STB to dripping or splashing and do not place any objects filled with liquids on or next to the STB.

▷ Do not expose the STB to any liquids, rain, steam, moisture or high humidity.

▷ Do not expose the STB to direct sun light.

▷ Do not place the STB near open fire or heating elements.

- ▷ Do not expose the STB to vibrations or shaking.

- ▷ Do not use the STB in dusty environments.

- ▷ If a storm is coming or if you are not going to use the STB for a long time, unplug the power cord and disconnect the Ethernet cable. This will help to protect the unit from lightning and power line surges.

- ▷ Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

- ▷ The mains plug of adapter is used to disconnect device from power supply. The mains plug of adapter shall remain readily operable.

- ▷ When using set-top box with a plasma TV, do not put picture on pause for more than 5 minutes, due to plasma TV screen design it could lead to display damage. The set-top box manufacturer is not responsible for any damage caused in such manner.

- ▷ The software on your STB is updated automatically. Do not unplug the power cord and do not disconnect the Ethernet cable while the software is updating. The STB manufacturer is not liable for any consequences of incorrect software update.

- ▷ The manufacturer does not guarantee the absence of interference with other devices. To eliminate possible interference, increase the distance between the STB and other equipment, or connect equipment using a different setup.

4   Indicators and slots

Front panel

Element	Purpose
Power indicator	Green —STB is switched on and operates normally. Red — STB is in the stand-by mode.
IR receiver	The internal IR receiver is accepting signals from the IR remote control (RC). This element should be in the direct visibility range from the IR

		RC, if an external IR receiver is not used.

Back panel

№	Element	Purpose
1	A/V	The analog audio/video interface (composite + stereo audio signal)
2	HDMI	The audio/video interface for connecting with an HDMI-compliant device
3	USB	USB 3.0 port
4	LAN	Ethernet port, 10/100/1000 Mbps
5	DC 12V	The port for a power adapter

5 Installation

1. Remove your STB from packaging and remove the protective tape.
2. Make sure that the place, where you are installing the STB, meets the following requirements:
   - Place STB on a flat surface.
   - Do not place the STB on slick surfaces, where there is a risk of vibration, fall or other damages of STB.
   - Do not mount the STB on soft surfaces, like a bed, carpet, etc. Such a surface impedes access for air and normal ventilation of the STB and thereby causes overheating and malfunctioning.
   - Do not cover the STB.
   - Do not shield the ventilation holes in the STB's enclosure located at the top panel of the STB.
   - When mounting the STB, make sure that there are at least 10 cm of free space at each side of the device. Do not place STB in closed cupboards and caves.
   - Do not place STB on surfaces, which can heat, for instance, on boosters.
   - Do not place any things on the device.
   - To avoid damage of the power adapter's cable, place the cable so that it is not pressed, pinched or mechanically affected in any way.
3. Make sure that the TV set and the STB are not connected to the power network.
4. Connect the TV set and the STB with the HDMI cable.

5. Connect the Ethernet cable to the STB if you are going to use wired connection to the Internet. If you are going to use Wi-Fi, skip this step.
6. Connect the STB and the TV set to the power network.

6 Remote control

6.1 Remote Control Description

Button	Purpose
•	LED
TV	Switching the TV on and off*
⏻	Power. Switching the STB on and of
AV	Choosing a signal source on TV*
🔇	Disable/Enable the sound. Controls TV or STB*
V- V+	Change volume. Controls TV or STB
↺	Cancel/Go one level up

▼▲◄►	Move through menu items
OK	Confirm the selection, pause, resume playback
⌂	Jump to the main menu
🔍	Search by content name, actors, television channels and TV shows
🔄	In the mode of watching TV/movie – return to the previously watched channel
CH- **CH+**	Switch channels
0...9	Numeric keys
*You can control TV after the RC setup	

The universal remote control can simultaneously work with multiple devices.

To pair the IR remote control with a TV set, you need to perform simple configuring that will not take much of your time. The RC can be set up automatically as well as manually using the TV manufacturer's number or code.

You do not need to perform any special configuring to pair the RC with the TV. For more information see the section RC Setup.

6.2 Automatic Setup

1. Turn your TV on.

2. Point the remote control at your TV. Press and hold TV and OK buttons for 3 seconds. The LED on the remote control will flash twice and the remote control will switch to setup mode. If in the automatic search mode no button is pressed, the remote control exits the mode.

3. Press CH- or CH+ button once. The remote control will automatically send a code to the TV every 1.5 seconds. When the TV is going to turn off, quickly press OK to save the code. After that the LED blinks twice and the remote control exits the mode.

4. You can change the search direction, using the buttons CH- and CH+. To stop/resume the search, click OK.

6.3 Setting up remote control by using manufacturer's number

1. Turn your TV on.

2. Point the remote control at your TV. Press and hold for three seconds the TV button and the button corresponding to the manufacturer's number from the table (see. Table

of manufacturer numbers and codes). The LED on the remote control will flash twice and the remote control will switch to the setup mode.

3. Press CH+. he remote control will automatically send a code to the TV every 1.5 seconds. When the TV is going to turn off, quickly press OK to save the code. After that the LED blinks twice and the remote control exits the mode.

4. You can change the search direction, using the buttons CH- and CH+. If you press OK, the LED will flash twice and the RC will exit the setup mode.

5. Each time you start setting up, search begins with the first code in the table.

6.4 Table of manufacturers numbers and codes

Number	Manufacturer	Code
0	Aiwa	1050 1141 1094
1	Akai	1086 1010 1018 1002 1001 1000 1059 1056 1053 1051 1049 1054 1031 1030 1023 1013 1008 1037 1071 1022 1064 1078 1083 1138
2	Hitachi	1104 1024 1034 1055 1162 1011 1005 1057 1105 1071 1093 1159 1122 1044 1022 1017 1163 1073 1027 1023 1002 1031 1006 1030 1008 1072
3	JVC	1046 1133 1037 1118 1018 1004 1045
4	LG	1091 1161 1008 1120 1002 1082 1000 1031 1053 1037 1006 1049 1054 1128 1123 1153 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198
5	Panasonic	1045 1113 1115 1012 1084 1002 1031 1030 1005 1180 1181 1182 1183 1184 1185
6	Philips	1031 1002 1095 1036 1017 1000 1202 1203 1204 1205 1206 1207 1208 1209 1210
7	Pioneer	1080 1092 1007 1048 1002 1031 1017 1006 1014 1025 1029
8	Samsung	1064 1151 1041 1008 1035 1004 1155 1112 1031 1079 1000 1002 1013 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179
9	Sony	1094 1134 1116 1199 1200 1201

A full table of manufacturers numbers and codes see on http://smartlabs.tv/en/set-top/codes

6.5 Setting up remote control by using manufacturer's code

1. Turn your TV on.

2. Point the remote control at your TV. Press and hold TV and OK buttons for 3 seconds. The LED on the remote control will flash twice and the remote control will switch to the setup mode.

3. Enter the four-digit setup code (see. Table of manufacturers numbers and codes). The LED will flash each time you enter a digit.

4. If you entered the code correctly, the LED will blink twice. Otherwise – once.

5. Check the buttons operation. If most of the buttons function correctly, the code is correct. If necessary buttons do not work properly, select another code from the table and repeat steps 2 - 5.

> If no key is pressed within 20 seconds, or if any non-numeric key is pressed, the remote will exit the setup mode.

6.6 Controlling volume of STB or TV

Remote can be configured to control the volume of the TV or STB. To switch between these two states, press and hold for three seconds the buttons <POWER> and V +. The LED will blink twice and the remote will control the volume of the other device.

6.7 Changing STB code

If using the remote control for STB results in any undesirable interference with your TV (such as switching TV channels when you switch channels on STB), this means that the codes used to control STB and TV overlap or are the same.

To eliminate this interference, change the code used by the remote control for STB. Since there are two possible codes for STB, select the one that does not result in undesirable interference with your TV.

To change the code, do the following steps:

1. Turn the STB on.

2. Press <POWER> and OK buttons and hold them for three seconds. When the LED on remote control lights up, release the buttons. The remote control will switch to the setting mode.

3. By default, the STB uses the code 1256, you can change the code to 1255. Enter the code 1255. When you enter each digit, the LED will flash once.

4. If the code is entered correctly, the LED will flash twice. If the code is entered incorrectly, the LED will flash once and the remote control will exit the setting mode. Repeat steps 2–4.

5. Try pressing the remote control button that causes undesirable interference with another device. If the conflict is resolved, the code has been selected correctly.

6.8 Resetting the remote control

To reset the remote control:

1. Press and hold TV and OK buttons for 3 seconds. The LED on the remote control will flash twice and the remote control will switch to the setup mode.
2. Enter the code 977. When you enter each digit, the LED will flash once. After that the LED will blink four times, and the settings will be reset to default.

7 First start

When you switch on the STB for the first time, make sure that the STB is connected to a managed IPTV network. The box will start downloading the latest version of the software. Updating may take a few minutes. Do not disconnect the STB from power supply and from the Internet before the updating is complete. After finishing the STB will reboot automatically.

8 Troubleshooting

Problem	Possible reason	Solution
No picture	1. TV is not turned on	1. Turn on your TV
The screen displays "No signal"	1. STB is not connected to the mains supply. 2. STB is turned off. 3. TV is set to the	1. Connect STB to the mains supply. 2. Turn STB on by using its remote control. 3. Use TV remote control to select the

	wrong input source.	video input connected to STB.
No sound	1. The sound is turned off on TV. 2. The sound is turned off on STB.	1. Increase the volume on TV by using the TV remote control. 2. Increase the volume on STB by using VOL+ button on STB remote control.
Remote control is not working	1. Dead battery.	1. Replace the battery with a new one.
STB turns off periodically	1. Not enough power supply to STB. 2. Overheating.	1. Connect STB to power adapter included in the supplied package. 2. Ensure sufficient air flow to STB — no less than 10 cm (4 inches) of clearance on all sides.

If you need further support, please contact your Service Provider.

9 Cleaning

1. Unplug the STB before cleaning.
2. Wipe the STB with a clean dry rag only.
3. Clean the ventilation holes in the STB's enclosure on a regular basis.
4. You may remove stains from the STB's surface with a slightly damp cloth.
5. Do not use chemical cleaner, car polish, dissolvent, aerosol, cleaning agents, abrasive powders and materials for cleaning the STB and accessories.

10 Disposal

The STB must be disposed separately from household waste. When the STB reaches its end of life, contact local authorities to learn about disposal and recycling options. The correct disposal will help prevent potential negative impact on the environment and human health.

11 Specifications

Name: SML-5112W

Dimensions: 160x156x62 mm, 450g

Power supply:

▷ Input: AC 100 - 240V, 1.0A Max, 50Hz - 60Hz

▷ Output: DC 12.0V, 2.5A

 Inputs and outputs:

- ▷ The digital audio/video interface HDMI 2.0 with HDCP 2.2

- ▷ The CVBS video interface + analog stereo audio interface (TRRS mini-jack) (the cable is optional)

- ▷ Ethernet port, 10/100/1000 Mbps

- ▷ USB 3.0

- ▷ The port for a power adapter DC 12V

Wi-Fi module: Quantenna 4x4 (RGMII)

Resolution supported on HDMI : 4K2Kp60

Supported CVBS standards: PAL, NTSC

Supported video codecs: H.265/HEVC Main Profile and Main10 Profile up to 4K2Kp60 (single stream decode and display), VP9 up to 4K2Kp60 (single stream decode and display), H.264/AVC HP@L4.2, MPEG2.

Supported audio codecs: MPEG1 Layer I/II, AAC-LC (ADTS, ADIF), HE-AAC, Dolby Digital, Dolby Digital Plus.

12 Licensing and certification

12.1 Copyright

Company and product names mentioned in this guide may be trademarks, registered trademarks or served marks of the appropriate right holders. HDMI, HDCP, MP3 standards are used in the device on the appropriate licenses given by its right holders. SmartLabs LLC has the appropriate licenses to use these standards.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

SmartLabs LLC is able to change, improve any product described in this guide and also the guide itself without preliminary notice.

© SmartLabs LLC. No part of this document can be reprinted, republished without a preliminary agreement with SmartLabs LLC.

12.2 EC Declaration of Conformity

STB complies with the requirements of the applicable EC directives.

$C\,\epsilon$

12.3 FCC compliance statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note that this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▷ Reorient or relocate the receiving antenna.
- ▷ Increase the separation between the equipment and receiver.
- ▷ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ▷ Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

13 Manufacture date

Manufacture date is encrypted in the serial number on the device bottom. 9 and 8 digits to the right are the year, 7 and 6 are the week:

S/N:30D00885F00YYWW00074

MAC:E4:27:71:40:00:00

Device lifetime is 36 months (3 years)

14 About the manufacturers

Legal entity: SmartLabs LLC.

Address: Scherbakovskaya street 3, Moscow, Russia, 105318

Contact information: www.smartlabs.tv

Manufacturing plant: Sichuan Changhong Network Technologies Co. LTD

Manufacturing plant address: 35, East Mianxing Road, High-Tech Park, Mianyang, Sichuan, China.

15 Warranty

The appliance warranty is provided through the service provider. The warranty period and conditions are determined by the service provider. If maintenance or repair is required please contact your service provider.

No part of this document shall be considered as warranty.