Skyworth

User manual

HD 7400
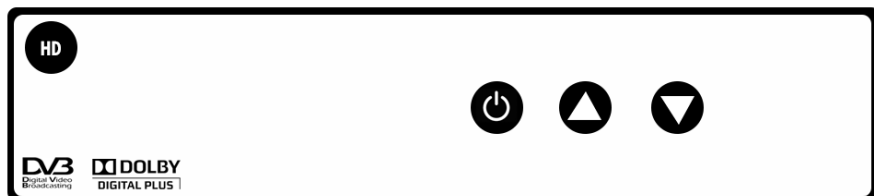
HDMI & SCART | 12V Kompatibel | USB Multimedia | EPG | Tele-text | Unter-titel | RSS Feeds

DVB-T2 HD

DVB T2 | HDMI | DOLBY AUDIO | HEVC Advance | Irdeto | eco

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Table of Content

Skyworth

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1.0 Introduction

1.1 Safety instructions

Do not install your receiver:

⊚◉in a closed or poorly ventilated cabinet; directly on top of or under any other equipment; on a surface which might obstruct the ventilation slots.

Do not expose the receiver or its accessories:

⊚◉to direct sunlight or any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.

⊚◉do not use a damaged power cord. It may cause a fire or an electric shock. Do not touch a power cord with wet hands. It may cause an electric shock.

⊚◉when the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.

⊚◉do not use alcohol or ammonia-based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, and only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.

⊚◉do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

Safety precautions

⊚◉never try to open the receiver. It is dangerous to touch the inside of the receiver due to high voltages and possible electrical hazards. Opening the receiver will void the warranty of the product. Refer all maintenance or servicing to suitably qualified personnel.

⊚◉when you are connecting cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment.

⊚◉it is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.

If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against mechanical shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty conditions, make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could damage the product and void your warranty.

Skyworth

1.3 Equipment Set-up

We recommend you to consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

      ⊛⊚refer to the user manual of your tv and, if applicable, your antenna.

      ⊛⊚make sure that the hdmi cable and, if applicable, outdoor components are in a good condition.

      ⊛⊚if you use the tv scart connection, use a well shielded scart cable.

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

warning:	indicates warning information.
Tips	indicates any other additional important or helpful information.
Menu	represents a button on the remote control or the receiver.
	(bold characters)
Move to	represents a menu item within a window.
	(italic characters)

1.4 Accessories

      ⊛⊚installation instructions

      ⊛⊚1 remote control unit

      ⊛⊚2x batteries (aaa type)

      ⊛⊚1 hdmi cable

      ⊛⊚power adapter12 v dc, 1.5 a

Warning:	the batteries should not be recharged, disassembled, electrically shortcircuited, be mixed or used with other types of batteries. If rechargeable accumulators instead of batteries are going to be used (e.g. nimh), we recommend using types with low self-discharge to ensure long time operation of your remote control.

1.5 Usage of external usb devices

      ⊛⊚it is recommended to use usb 2.0 storage devices or higher. If your device is not compatible to usb 2.0 specifications, playback and other multimedia functions of the receiver might not work properly.

      ⊛⊚to ensure best performance of your usb storage device please format it via your receiver (through the menu "*multimedia*") to fat32 system. Other file systems are not all supported by the receiver. However, it is possible to use already ntfs formatted disks.

      ⊛⊚skyworth cannot guarantee compatibility with all types of usb storage devices.

      ⊛⊚if you are going to use external usb hdds (hard disk drives), please consider that power specifications may exceed the supported output of your receiver (max.5 v/800 ma). If so, please connect your usb hdd to an according external power adapter.

      ⊛⊚playback of files cannot be guaranteed although extensions are listed, as it depends on codec, data bit rate and resolution used (all mpeg codec formats are supported).

      ⊛⊚it is advised not to store important information on usb storage devices used with the receiver. Always make backups of data on your usb storage device before using it with this

receiver. Skyworth will not take responsibility for any loss of information or circumstances caused by loss of information.

2.0 Your Receiver

2.1 Default Pin: 0000

2.2 Front Panel

Fig. 1

1. Q   switches the receiver on or into standby 2.
2. ▲▼   switches to the previous/next programme
3. ◄ ►   decreases/increases the volume level.
4. **Ok**   opens the current channel list in menu: for confirmation 5. **Menu** opens the main menu. In a menu you will get one step back.
6. **Exit**   exits from the menu or sub-menu.
7. **Led display** shows channel number and time in standby
8. **Ir sensor** receives commands from the remote control
   9. **Mode indicator led**

     red indicates that the receiver is in standby mode. Green indicates that the receiver is in operating mode.

2.3 Rear Panel

Fig. 2

1. **Ant in**   t o connect to your antenna (room, -outdoor or roof antenna) for reception of broadcast signals.
2. **Ethernet**   to connect to your ethernet cable (rj-45) for rss feeds and weather forecasts
3. **Audio l/r**   to connect your receiver to an analogue audio amplifier.
4. **Usb** to connect your usb storage device.
5. **Hdmi**   to connect your receiver with your tv-set using an hdmi cable.
6. **S/pdif coaxial**

     to connect your receiver to a digital home cinema set, av receiver or digital audio amplifier.
7. **Tv scart**   to connect your receiver with your tv-set using a scart cable.
8. **Dc power**   t o connect to the original included main power adapter (100 -240 v ac ~

   50/60 hz/12 v, 1.5 a dc ⊖–ⓒ–⊕)

2.4 Remote Control

Fig. 3

1. Q   switches the receiver on/standby.
2. !   Mutes all audio outputs of the receiver

Skyworth

3. **0~9** enter channel number in tv mode or value input in menu
4. **Tv/r** toggles between tv or radio mode.
5. ▯ no function
6. **Fav** opens the favourite group selection.
7. 9 one step back in menu or back to previous channel.
8. **Audio** opens the audio* language selection
9. **Info** o pens the current channel information; 2x opens the current event information and 3x the next event information.*
10. **Epg** opens the epg* (electronic programme guide) in tv mode.
11. ▲▼ c hange channel to next/previous. Menu: moves the cursor up/down.
12. ◄ ► decreases/increases the volume level.
    Menu: change settings for specific menus.
13. **Ok** opens the current channel list in menu: for confirmation 14. **Menu** opens the main menu, in a menu you will get one step back.
15. ▯ exits from the menu or sub-menu.
16. **Vol+/vol-** increases/decreases the volume level.
17. **P+/p-** page up/down in all list modes.
18. **List** call the current channel list.
19. **Ch+/ch-** channel up/down.
20. **Opt** opens quick menu to adjust screen settings
21. **Text** opens the teletext* if available
22. **Sub** shows a list of subtitle* languages.
23. ▯ to read messages from your provider.
24. 2 to pause the playback of multimedia files
25. 5 6 fast rewind/fast forward.
26. 4 no function**
27. ► opens the multimedia menu
28. 7 8 jump function in multimedia playback
29. 3 stop playback.
30. **Colour buttons** in different menus for specific functions

* subtitles, videotext, epg (electronic programme guide), and audio languages are depending on availability in the specific broadcast
** the recording function is not supported by this receiver.

2.5 Installing the batteries

Fig. 4

Open the cover on the remote control and insert 2x aaa type batteries into the compartment. Observe correct polarity of the batteries when inserting. A terminal diagram is shown inside the compartment.

1. Remove the cover.
2. Insert the batteries.
3. Place the cover.

2.6 Using the remote control

Fig. 5

To use the remote control, point it towards the front of your receiver. The remote control supports a range of up to5 meters distance to the receiver at an angle of up to approx. 30 degrees.

Note:	managing the receiver will be limited or not possible if there are obstacles between the remote control sensor (at the front panel of the receiver) and the remote control. Direct sunlight or very bright light can reduce or disturb the reception of the remote control signals.

3.0 connection

3.1 Connecting to a terrestrial antenna

Fig. 6

To receive broadcast signals, your terrestrial indoor or outdoor antenna must be connected to the ant in connector on the back of the receiver. Use a proper shielded antenna cable and suitable connectors.

Note:	if the signals at your location are too weak to receive proper signals with an indoor antenna, we recommend using an outdoor antenna which can be pointed towards the transmission tower. Ask your local dealer for more information. If you are using an active antenna with built-in antenna amplifier, switch the antenna power to *on* in the menu *manual search*.

3.2 Connecting to tv with hdmi cable

Fig. 6

The tv set shall be connected to the receiver using a good quality hdmi cable. This connection gives the highest possible picture quality.

3.3 Connecting to tv with scart cable

Fig. 6

Your receiver is also equipped with a scart connector; alternatively, the tv set can be connected to the receiver using a good quality scart cable.

3.4 Connecting a usb storage device

Fig. 6

Use this connector to access files from your usb storage devices for multimedia functions or update the software of your receiver. Hdd can only be supported with a maximum current of800 ma. It is recommended to use at least usb 2.0 storage devices for playback of video files or hd movies.

3.5Connecting to the internet for rss feeds and weather forecasts

Fig. 7

Skyworth

To use rss feeds and weather forecast, the receiver must be connected to the internet. Connect the ethernet (rj-45) connector at least with a class cat5e cable to your router/socket/extender or similar applicable equipment, which provides access to the internet.

3.6 Connection to main power supply

Fig. 7

After all the connections are established you can connect your new hd receiver to the main power by using the included external power adapter and connect the plug it to the wall socket.

3.7 Extended connections for your home entertainment

Fig. 8.

Connecting to a digital audio amplifier with s/pdif

By connecting your receiver to a digital amplifier or home theatre system, you can enjoy the best possible sound quality and multi-channel audio (depending on broadcast). Connect your digital audio amplifier or home theatre system with a suitable cinch cable to the s/pdif connector on the back of the receiver **connecting to a digital audio amplifier and tv using hdmi**
By connecting your receiver to the latest digital amplifiers or home cinema systems you will enjoy the best possible sound quality and multi-channel audio (depending on broadcast). Connect the hdmi output of the receiver to an input of your amplifier, and then connect the hdmi output of the amplifier to your tv set. Select the correct input on your amplifier to watch and listen to programmes.

4.0 Starting up for the first time

Make sure that your receiver and antenna are connected/aligned correctly. If you have any related questions accordingly, please contact your local service or retailer. The first time installation will guide you through the required steps, after that you will be able to enjoy your hd tv completely. If you already connected an ethernet cable to your receiver, you can access rss feeds and weather forecasts. We wish you lots of fun with your new product.

4.1 Language selection

When you use your receiver for the first time, the "bevorzugte sprache" (preferred language) menu appears. Use ▲▼ to select the desired language. Once you have selected your language, press the **green** *next* button to go to the next page.

4.2 Region, subtitles, scan mode and screen settings

The receiver will now show the "first time installation" screen where you can adapt some of the most important settings. Use ▲▼ to move to the desired setting and use ◄ ► to change values. Press the **green** *next* button to go to the next page or press the **red** *back* button to go one step back. The following settings are available:

Region: 		the region is set to *germany* and this can't be changed as this receiver is destined for germany.
Subtitles display: select *on* to display subtitles whenever they are available, select *off* if you don't need them to be shown.*

Aspect ratio: use this option to select the aspect ratio of the connected tv. The options are: *4:3* for a 4:3 tv (black bars on top and bottom of picture) and *16:9* for 16:9 tv sets.

Scan mode: select *all* to store scrambled and free-to-air channels or select *free* to store only free-toair channels.

Connection: use this option to select the established connection to your tv set. Select *hdmi* or *tv scart*.

* availability of dvb/hoh subtitles depends on the broadcast. If subtitles are not supported, they can be activated via videotext if available.

When all settings have been made, press the **green** *next* button to continue.

4.3 Aerial Adjustment

This part of the wizard will help you to setup your antenna and check signals.

Use ▲▼ to select the setting and ◀ ▶ to change these values. The following settings are available:

Antenna power: set to *on* if you use an active antenna (with built-in amplifier). When set to *on*,5 v will be present at the ant in connector of the receiver. Select *off* for passive antennas.

Channel no.:   select a channel which is known to carry a broadcast signal in your region. The *signal Strength* and *signal quality* bars give a visual indication of the reception. Adjust your antenna to achieve the maximum signal strength and quality.

When all settings have been made, press the **green** *next* button to start the channel scan.

The receiver will search for all available channels. When the scan is finished, the receiver switches to viewing mode. Now you can enjoy watching your favourite tv channels. If you get the message "no channels found", then check again the antenna, coaxial cable, connector and in menu if you have reception. When this has been checked, reset the unit and follow the installation wizard again as shown below.

Tip: if the receiver won't start after switching on the receiver for the first time, reset the receiver to factory settings by pressing the **menu** button and selecting *load factory setting* in the menu *installation*. **(default pin: 0000)**.

5.0 Quick guide to using your receiver

We at skyworth understand that you can't wait to enjoy your new high definition digital terrestrial Receiver. The following quick guide will make you familiar with the basic operation of this device. We do, however, advice you to read the full manual to get the best performance from your receiver.

To switch your receiver on or into standby press q on the remote control or front panel of your receiver. Choose the desired channel with ▲▼. Alternatively, you can enter the channel number with the **0~9** buttons on the remote control or press **ok** in viewing mode to display the channel list. The volume can be adjusted with ◀ ▶ and within the menus and in videotext use **vol+/-** additionally you can use ! To mute all audio outputs. Use **p+/p-** buttons to scroll in list modes for your convenience.

Skyworth

6.0 Operation

Your new receiver is equipped with several features to make watching tv a true pleasure. This chapter describes these features. Please do also read chapter **7.0** to get familiar with the menu of your receiver.

6.1 Changing channels

Following ways are possible for changing channels with your new receiver:

- ◉◉via direct access using the **0~9** buttons.
- ◉◉via the channel list through **ok** and the **pg+/pg-** buttons.
- ◉◉via the ▲▼ buttons.

6.1.1 direct access via 0~9 buttons

To gain direct access to a certain channel, simply enter its number with the **0~9** buttons on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds and your receiver will switch to the selected channel or press **ok** immediately after selecting the channel number.

6.1.2 channel list

Press **ok** in viewing mode to display the *tv list*. Use ▲▼ in the channel list to highlight your channel

Tip: in case you have already created a favourite list, use ◄ ► inside the channel List, to select between the *tv* list and the favourite list(s) or press **fav** in viewing mode to open this selection.

6.1.3 using ▲▼

▲ switches to the next channel.

of choice and press **ok** to switch. Inside the channel list it is possible to use the **pg+/pg-** buttons to

scroll page-wise through the list. ▼ switches to the previous channel.

6.2 Info banner

While watching tv, you can press **info** at any time to access information about the current channel and event*. In this mode it is possible to use ◄ ► to display programme information of other channels without the necessity to switch. Press **info** twice for extended epg details about the current channel. Within the program information use ▲▼ or **p + / p** to scroll. If you press ◄ ► you can change between *now* and *next*.

* event information is displayed when available. Availability depends on the broadcast.

6.3 Selection of audio language

Some channels support a choice of audio formats and/or languages. To select another audio stream, press **audio** in viewing mode. A list of available audio streams will now be displayed. Use ▲▼ to select a stream and confirm with **ok**. The audio channel as stereo, mix, left and right can be selected with ◄ ►.

6.4 Videotext

To access the available videotext, press the **text** button in viewing mode and use the **0~9** buttons to enter the number of the page you wish to see. In case of availability you can also use the **colour buttons** of the remote control for direct access, as indicated on the bottom of the screen.

Use ▲▼ to select one page, use ◄ ► to select subpages. By pressing **ok** you can change the transparency. Each time there will be another level and after the fifth time the initial transparency is achieved. Press ⬚ to get back to viewing mode. After leaving videotext, the transparency level is set to the initial level again.

6.5 Subtitles

Some channels support a choice of subtitle languages. Press **sub** in viewing mode to display a list of available subtitle languages. Select your subtitle of choice with ▲▼ and press **ok** to confirm. Press ⬚ to leave without making changes.*

* availability of dvb/hard of hearing subtitles depends on the broadcast. If subtitles are not available, they can be activated via videotext (if available).

6.6 EPG (electronic programme guide)

The electronic programme guide is a very useful function that allows you to view event schedules and programme information and to mark events/movies for wakeup of the receiver. To access the epg, press **epg** in viewing mode. Use ▲▼ to select a channel and ◄ ► to select an event. Press **ok** to display detailed information of the selected event. Use 9 to quit the detailed information screen. Press the **red** or **green** buttons to see and select another day. Press the **yellow** button to set a timer for a selected event. Refer to section **7.3.4** for details of the timer function.

Note:	availability of epg data depends on broadcast.

7.0 Main Menu

The main menu gives you access to *installation, channels, settings, multimedia* and *network* functions. To access the main menu, press **menu** in viewing mode. Throughout the main menu, 9 can be used to get back to the previous screen and ⬚ to quit.

7.1 Installation of channels

Use ◄ ► to select the main menu item *installation*.

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Use ▲▼ to highlight the submenu of choice and press **ok** to select. These submenus are available: *manual search*, *auto search*, *information*, *factory settings* and *freenet menu*

7.1.1 Manual search

This menu allows you to search for channels at a specific frequency or channel number.

Use ▲▼ to select *scan mode*, and select between *free* which will only install free-to-air channels or *all*. This means that channels that are free-to-air or scrambled will be searched and stored.

Use ▲▼ to select *channel no* and select the channel number of the frequency you'd like to search. Press **ok** to open a list to make selection faster.

The next option *modulation* is to select between *only dvb-t* or *dvb-t+t2* modulation type.

When in doubt, use the *dvb-t+t2* setting.

If you use an active antenna (with built-in amplifier), then switch the *antenna power* to *on*. If you use a passive antenna (without built-in amplifier), then select *off*.

Highlight *search* and press **ok** to start scanning. New found channels will be added to the channel list.

7.1.2 Auto search

This menu allows you to search for channels from all available *frequencies* or *channel numbers*. Be aware that all previous installed channels and favourite list(s) will be deleted. The new found channels will be installed in the channel list and afterwards you can create a new favourite list if you like.

Select *scan mode*, and select between *free* which will only install free-to-air channels or *all*. Highlight *search* and press **ok** to start scanning.

7.1.3 Information

This submenu shows receiver specific information such as hardware and software version. It also displays technical information from the currently selected channel and signal strength and quality. Please have the *information* screen on hand when you call our hotline. The person who answers your call might ask for the information given in this screen.

7.1.4 load Factory settings

This option allows you to reset the receiver back to the factory settings, which also clears all stored channels.

Use ▲▼ to select *load factory settings* in the *installation* menu and press **ok**. You are asked to enter your pin code. Enter the correct pin code using the **0~9** buttons. **(default pin: 0000)**. A confirmation window is displayed. Select *ok* to load factory settings. Select *cancel* to cancel. Press ⧉ to leave.

Warning:	by resetting your receiver to factory default, all your settings and stored channels will be permanently deleted. Please use this option with care.

7.1.5 Freenet menu

Conditional access (ca) menu. Read technical data about your subscription(s). Read a message from your provider and check the rights to watch certain programmes. A software update is signalled here too. Follow the instructions on screen. Some data given has no immediate meaning to a client, but

Is useful to for example a service centre or provider itself. This menu gives access to the following submenus which can be opened for detailed information about these items: *service status*, *loader status*, *product status*, *client status* and *mailbox*.

7.1.5.1 mailbox
This menu allows access to provider mails. It is used for sending important information from broadcaster/content provider to you. If you receive a mail you will get this message directly displayed on screen. After the mail has been removed from the screen you can find the messages within the menu and have the possibility to delete messages individually by pressing the **blue** *delete* button or to delete all of them by pressing the **red** *delete all* button.

7.2 channels
Use ◄ ► to select *channels* in the main menu.

Use ▲▼ to highlight the submenu of choice and press **ok** to select.

7.2.1 tv manager
This menu allows you to create favourite lists, move channels in order, lock channels with pin protection and delete channels from the tv list.

7.2.1.1 adding channels to favourite lists
Channels from the *tv list* can be added to up to4 different favourite groups. Select *favourite* and press **ok**, select the wanted favourite group and press **ok**. Use ▲▼ to select a channel you wish to add to a favourite group. When the highlight is on the channel of your choice, press **ok**. At the right side you will see your new created favourite list. If you like to remove a channel from a favourite list, simply press ► and select that channel and press **ok** to delete.

Note:	always start by selecting the channel you'd like to have at position1 in the Favourite list, then the next one. Later sorting of favourite lists is possible with the **green** *move* button if the logical channel numbering function is *off*.

Press ⧉ to finalize the process. A confirmation banner will pop up. Select *ok* to save the changes or to discard.
Cancel

7.2.1.2 move channels in channel list
This receiver supports logical channel numbering (lcn). This means that the channel numbers are operator defined and automatically sorted into the main channel list. Sorting in the main list is therefore not possible. The *move* function is marked grey and cannot be selected. By default this function is set to *off* and you are free to sort the channels in the main channel list. If you like to use this function, see chapter **7.3.3.4**.

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Sort the channel order from the main channel list

Select the option *move* and press **ok**. Use ▲▼ to select the channel you wish to sort onto first position. When the highlight is on the channel of your choice, press **ok**. This can be done with more channels until you are happy with the sorted order. To remove one channel from selection list, press ◄ and select in the "selected" list the channel. Press **ok** to remove it. To store the new channel order, select in "channel list" the position press the **red** button *move*. If you have only sorted a few channels and want to store this between existing channels, select in "channel list" the position where the sorted channels need to be copied to.

7.2.1.3 lock channels

Protect channels with a pin code before you can watch them. Select the option *lock* and press **ok**. Use ▲▼ to select a channel you wish to protect. When the highlight is on the channel of your choice, press **ok**. At the right hand side you will see your protected channel list. If you like to remove a channel from this list, then simply press ► and select that channel and press **ok** to unselect.

7.2.1.4 delete channels

Delete a channel or channels permanently from the main channel list (until you make a new search). Select the option *delete* and press **ok**. Use ▲▼ to select the channel you wish to delete. When the highlight is on that channel, press **ok**. At the right hand side, you will find the selection to delete from channel list. When you are ready, press 9 and confirm.

Note:	if the function "auto channel update" is set to *on* it is not possible to delete channels. This function can be found in the menu *settings > general settings* as described in chapter **7.3.3.4**.

7.2.2 radio manager

Create favourite lists, move channels in order, lock channels with pin protection and delete channels from the radio list. The functions of handling are the same as in the *tv manager* as described above. The

Only difference is that in the *radio manager* there is no video information, so it will always display the radio background on the preview screen.

7.2.3 programme information

This menu item opens the electronic programme guide (epg), for details please see chapter **6.6**.

7.3 settings

Use ◄ ► to select *settings* in the main menu. Use ▲▼ to highlight the submenu of choice and press **ok** to select.

7.3.1 language

This menu allows you to set up your language preferences.

Osd language: use ◄ ► to select the language for the on screen display.

1st audio language: use ◄ ► to select the audio language you like to hear as first priority, if available.

2nd audio language: use ◄ ► to select a language that will be played when the language selected at *1st audio language* isn't available.

Subtitle type: S elect the preferred subtitle type to be displayed automatically. Select *normal* or *hard of hearing**

Subtitle display: select *on* to activate displaying of subtitles.

1st subtitle language: use ◄ ► to select the first preferred subtitle language.

2nd subtitle language: use ◄ ► to select the second preferred subtitle language.

* availability of dvb/hard of hearing subtitles depends on the broadcast. If subtitles are not available, they might be activated via videotext.

7.3.2 output settings

Use this menu to adjust your desired output settings according to your tv and/or home cinema.
The following settings are available:

Hdmi resolution: S elect the video resolution of your tv screen. The options are: *auto* (automatic detection of video resolution offered to the receiver) and manual selections
                                480i, 576i up to 1080p please use a setting that matches the specifications of your tv. Selection above 576i is only applicable to the hdmi output.

Aspect ratio: S elect the aspect ratio of your tv. The options are: *4:3* for 4:3 screen and *16:9* for 16:9 tv sets.

Aspect conversion: S elect the preferred conversion method. The options are: *panscan*: displays 16:9 widescreen broadcasts in full screen on a 4:3 tv. *Letterbox*: black bars on top and bottom of the picture on a 4:3 tv. *Combined*: shows a mix inbetween. *Ignore*: shows as it is.

Connection: S elect the connection to your tv set. Select *hdmi* or *tv scart*. If the connection type hdmi is selected, then only the cvbs signal will be available on the tv scart.

Osd transparency: T o set the osd transparency from *off ~ 50%* with 10% steps.

Osd timeout: S ets the time after which on screen banners and messages disappear. The range is *3~10* seconds.

Hdmi audio output: toggles between *pcm* and *bitstream* output. When *pcm* is selected, all digital audio will be converted to stereo audio. *Bitstream* enables you to listen or transfer dolby® digital/dolby® digital plus* audio to the tv via hdmi or to a home cinema set.

Spdif audio output: toggles between *pcm* and *bitstream* output. When *pcm* is selected, all digital audio will be converted to stereo audio. *Bitstream* enables you to listen or transfer dolby® digital/dolby® audio to a home cinema set through coaxial s/ pdif. (not dolby® digital plus.)

Audio description: A d. Set this option to *on* if you like to have support of an audio track that Describes the content on screen. Useful for the visual impaired.

Audio description volume offset:
                                s elect the volume from the ad audio track.

* dolby digital plus, dolby digital and the double-d symbol are registered trademarks of dolby laboratories

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7.3.3 general settings

This menu allows you to manage the basic system settings of your receiver.

It allows you to adjust following items: *auto standby*, *auto channel update* and *logical channel numbering*.

7.3.3.1 auto standby

Auto standby is a feature that helps you reducing power consumption.

Press ▲▼ to highlight the *auto standby* item and use ◄ ► to change between *1 hour up to 6 hours*. The receiver will switch into standby-mode if it doesn't receive any command of the remote control during this time. Set it to *off* to deactivate the automatic standby function.

7.3.3.2 auto channel update

It this item is set to *on*, the unit will check if new channels are available before it is switching to standby. At the next switch on, you will be informed if new channels are on air and prompted to start an auto scan. This way you are always up-to-date with the channel list. If you select *off*, the automatic channel update function is deactivated and the *delete* function can be used in the channel list.

7.3.3.3 logical channel numbering

This receiver supports logical channel numbering (lcn). This means that the channel numbers are operator defined and automatically sorted into the main channel list. Sorting in the main list is therefore not possible. The *move* function is marked grey and cannot be selected. By default this function is set to *off* and you are free to sort the channels in the main channel list. If the broadcaster supports this function you can activate it by setting it from *off* to *on*. In this case the receiver will delete all current channels and favourite lists and start a new automatic scan process. Please confirm the displayed message with **ok** to proceed.

7.3.4 parental control

This menu allows you to protect the installation menu and/or channels with a pin code. You can also create a new pin code. Use ▲▼ to select *parental control* from the *settings* menu and press **ok** to proceed. You will be asked to enter your pin code. **(default pin: 0000)**

Menu lock:	L ocks the installation menu. You can set the *menu lock* to *on* or *off*.
Program lock:	S witch all programme/channels lock to *on* or *off*. If the lock is set in the tv or radio manager menu. You can select the lock separately for every channel which you like to protect it with a pin code.
Program lock age:	C hoose between: off *lock none*, *lock all*, *4 years* and up to *18 years*. Channels with a parental rating above the chosen age will be protected with a pin code (if available in your local broadcast.)
Pin code change:	press **ok** to enter the menu.
Old pin code:	E nter your current pin code (4 digits).
New pin code:	E nter your new pin code (4 digits) you'd like to use. (make a note of it.)
Confirm:	re-enter your new pin code to confirm. Press **ok** to end and save the change.

7.3.5 time settings

Here you can set up your time zone for clock/time in your menu and system.

Use ▲▼ to move the highlight to the setting of choice. Values can be changed with ◄ ►. Press ⏻ to leave.

Gmt usage:	set to *auto* for broadcaster defined time depending of country selection you made in the *first installation wizard*. Normally, the clock/time will be correct and also follow up the summer time changes automatically. In some regions close to neighbouring countries it can happen that the wrong time zone is followed. In this case select the option *user defined* to set up time manually in the next steps below.
Gmt offset:	allows you to adjust the time zone you live in. This option is only available when *gmt usage* is set to *user define*.the *gmt offset* range is "-11:00 ~ +12:00".
Daylight saving:	Select *off* or *on* to add one hour extra for summer time.

7.3.6 timers

This menu allows you to set up to10 timed events for waking up the receiver.

Use ▲▼ to select *timer* from the *settings* menu and press **ok** to enter.

The receiver will display a list with10 timers, followed by their respective status. Select the timer you wish to set or change with ▲▼ and press **ok** to proceed.

The timer setup menu will now be displayed.

The following settings are available:

Timer status:	choose between *once* (timer will wake up the receiver) or *off* (timer will not start the scheduled event). Also you can select *monday-friday*, *daily* and *weekly*.
Timer action:	fixed item to *booking*, wake-up of the receiver.
Channel:	press **ok** to open the channel list and use ▲▼ to select the channel where the timer will wake up with.
Start date:	use the **0~9** buttons to enter the date for the timed event.
Start time:	use the **0~9** buttons to enter the start time.
Duration:	use the **0~9** buttons to enter the timer duration.
Event name:	D isplays, after you have saved the timer, the event name according to the Epg. This is only possible if epg is available.

When all settings are according to your wishes, use ▲▼ to move the highlight to *save* and press **ok** to confirm. To quit the timer without saving your settings press 9.

7.4 multimedia

The *multimedia* menu consists of the following submenus: *movies*, *music*, *pictures* and *storage device setup*. Please, insert first a usb device and use ▲▼ to highlight the menu of choice and press **ok** to enter. Press ⏻ to quit or 9 to return to the previous menu.

7.4.1 multimedia player

This function allows playback of different kind of files from the connected usb storage device.

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In the *multimedia* menu, select *movies* and press **ok** to enter this menu to play all kind of video formats. Select *music* to playback files as mp3, ogg and flac formats. Select *pictures* to playback your favourite pictures in jpg or bmp format.*

When entering the *multimedia player*, the highlight is on the root folder of the usb storage device. Press **ok** to open the directory respectively its folders/subfolders. On screen in the right upper corner the root folders are displayed for easier navigation. Press ▲▼ to select a file or folder and press **ok** to open the folder/subfolder (if applicable) or start playback of the file. Press ⊠ to exit or press **ok** to open in full screen.

Use the buttons like described below in order to choose functions during the different playback modes.

General: ▶	start of playback of multimedia file.
2	to pause the playback of multimedia file.
5 6	fast rewind/fast forward.
7 8	jump function in playback modes of multimedia files.
3	stop playback. **Movies:**

red *subtitle:*	during the playback of a movie with external subtitles, press the **red** button *Subtitle* to enter the subtitle menu. In this menu you can select size and colours of your preference.
Green *jump:*	press the **green** button *jump* to open the *jump by time* menu. You can select a time where you'd like to jump to.
Yellow *hide:*	press the **yellow** button *hide* to remove or call the timeline information banner.
blue *audio:*	toggles between *stereo*, *left*, *right* and *mono* audio channel output.

Music:

▲▼	enter the folder with music files. Use the ▲▼ to select a file and press ▶ or **ok** to start playback. To stop playback press 3.

Pictures:

▲▼	enter the folder with picture files. Use ▲▼ to select a picture. If the format is supported it shows the picture in the small picture-in-picture screen. Press **ok** to watch it in full screen mode.
Red *option:*	before the playback of a picture in full screen, you can setup a slideshow/diashow. Press the **red** button *option* to enter the sub option menu *slide change time*. Select time of the slide show or switch this function off. After you select a time, press **ok** and show starts to play. Press the ⊠ button to stop.

7.4.2 storage device setup

This option shows relevant information about the connected usb device. In this menu you can also format your usb storage device and safely remove.

Select *storage device setup* in the *multimedia* menu and press **ok** to enter.

Now you will see all details as free and used space sizes and used file system.

Press the **red** *safely remove* button and press **ok** to safely disconnect the usb device. The receiver will display a message indicating that you can now safely remove your storage device from the receiver. Press the **blue** *format usb device* button to format the connected usb device.

Please, enter your pin code to access this menu and press **ok** to start formatting.
Press ⏏ to leave this menu.

Note:	after performing the *safely remove* function, the usb device is no longer accessible by your receiver. To gain access to you're the storage device again, re-insert it or switch the receiver to standby and on again.
Warning:	formatting will permanently delete all data stored on the connected device. Always make backups of data on your usb storage device before Using it with this receiver. Skyworth will not take responsibility for any loss of information or circumstances caused by loss of information.
Note:	it is possible to use usb storage devices already formatted in ntfs.

* playback of files cannot be guaranteed although extensions are listed, as it depends on codec, data bit rate and resolution used (all mpeg codec formats are supported).

7.5 network

This menu consists of the following submenus: *rss*, *weather* and *ip settings*. First connect a cat5e (or higher quality) cable to the rj-45 (ethernet) port of your receiver and ensure the other end is connected to the internet accordingly. If there are questions or problems with the internet connection, we recommend you to check details via the support or helpline of your internet provider.

Before you start to use the internet functions please check the setup of the internet connection via *ip settings* menu and confirm *set* with **ok**. Usually the internet connection should now been established without any problem and ready to use. A message will inform you if the connection has been setup successfully or not, use **ok** to confirm and press 9 to leave this menu.

Inside the menu use ▲▼ to highlight the submenu of choice and press **ok** to enter. Press ⏏ to quit or 9 to go one step back.

7.5.1 rss (really simple syndication)

This menu allows you to select a link to read the latest rss news from different sources or to add your own links.

Use ▲▼ to highlight a link of your choice and press **ok** to enter. Select an item you want to read. Press ⏏ to quit. Also you have option to delete, add or edit an rss feed of your own choice. Press the **green** button *add rss feed* to open the keyboard. Use ▲▼ and ◄ ► to enter values. If you need to use special characters press **p+/p-**. To save the created rss link, select *save* and press **ok**.

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7.5.2 weather

This menu allows you to watch the weather in your region. Use ▲▼ to highlight the menu item *weather* from the *network* menu. If you have correct internet connection then the weather page will show up with details on screen. Use the **yellow** button *city list* to open a selection list with main cities. Use ▲▼ to highlight a major city near you and press **ok** to select. You can enter a city manually. Press the **green** button *change city* to open a keyboard. Use ▲▼ ◄ ► to enter. If you need to use special symbols, press **p+/p-**. To save the name, select at the end *save* and press **ok**.

7.5.3 ip settings

This menu allows you to setup or check the internet connection. The default selection is *dhcp* set to *on*. Normally the setup is done automatically by this. To test if the internet connection works, select the item *set* and press **ok**. If successful, a pop-up message box will show up and you can start using it. If not successful, then check your cable or router. Alternatively set *dhcp* to *off*. Then manually enter your ip, gateway and dns values by using the **0 ~ 9** buttons. Select after entering these values the item *set* and press **ok** to store and to check.

7.6 software update

Your receiver allows software updates via different methods. These can be used to add new functions, improve functions and to keep the receiver up-to-date.

7.6.1 s/w upgrade by ota

The over-the-air (ota) software update function will automatically check if a new software version is available. In case it is, a message will appear on screen. Select **ok** to start the download and update. Press ▯ if you don't want to update now. The ota update might not be available in every region. Please visit our website www.strong.tv or contact your local service hotline for more information.

7.6.2 upgrade by usb

This feature allows you to update the receiver software via the usb port. If a new software version is available, it can be downloaded from our website www.strong.tv.

Save the software file (unzipped) in the root directory of your usb storage device (hdd, memory stick etc.) And connect the device to the usb port of the receiver. First a message will appear informing about the found usb device. In case the receiver has successfully detected the usb device after a short time you will see another message about the availability of new software. Select **ok** to start the

Warning:	after an update the receiver restarts automatically on the last watched channel. During the upgrade process never disconnect the receiver from the mains respectively from the antenna cable or switch off the power! Doing so might damage your receiver and will void warranty!

download and update. After the update the receiver will reboot automatically on the last watched channel.

Note:	if the receiver should behave in an unexpected way after a software update, please perform a factory reset. See chapter **7.1.4.**.

8.0 troubleshooting

There may be various reasons for abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your dealer or the local service hotline or send email to our support via www.strong.tv. Do not try to open or disassemble the receiver. It may cause a dangerous situation and warranty will be void.

Problem	Possible cause	What to do
Led indicator is not lit	The mains lead is unplugged	Check the mains plug
No signal found	The antenna is disconnected The antenna is damaged/misaligned Out of digital signal area Active antenna requires to switch on the antenna power/external power	Check the lead of the antenna Check the antenna Check with your dealer Switch the antenna power of the receiver on/connect external power
No picture or sound on tv or amplifier	Hdmi or scart is not selected on your tv or amplifier or the unit is set to higher resolution as the tv supports. Tv/amplifier is not switched on	Switch to correct tv/amplifier input select lower resolution on receiver switch tv/amplifier on. Check if s/pdif connection is used.
Scrambled channel message	Channel is scrambled	Check if you have the rights to watch this channel
No response to the remote control	The receiver is off The remote control is not aimed correctly The front panel is obstructed the batteries of the remote control are exhausted	Plug in and turn on the plug Aim the remote control at the front panel Avoid obstructions Replace the batteries of the remote control
Forgotten parental control pin code Forgotten channel lock Code		Default pin is **0000** Contact your local service hotline or send an email to our support via www.strong.tv

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| After moving the receiver to another room/area you are no longer able to receive digital reception | The antenna signals are too weak the signal strength/quality might be Less than before, if using an indoor antenna | Press **info** on the remote control to check the signal bars on screen and adjust the antenna for (maximum) reception. Alternatively, do a rescan of the channels. When using an active antenna, check if the antenna power setting is *on* Try using an outdoor antenna |

Problem	Possible cause	What to do
The receiver switches off automatically	The *auto standby* function is enabled	Disable *auto standby*. See section **7.3.3.1** for details.
Playback of video causes picture freeze/ macro blocks or similar Distortion, especially on Hd content	The read speed of your usb device could be too low	Make sure to use a usb storage device with sufficient speed and space. Pen drives ('usb sticks') may not support sufficient speed.

9.0 Technical specifications

Demodulator

Demodulator:	Qspk, 16/64/256 qam
	Dvb-t (en300 744), dvb-t2 (en 302 755)
Transmission mode:	Normal and extended

tuner

Front end:	Dvb-t/t2, uhf tuner
Input frequency range:	Uhf:474 ~ 786 mhz
Input signal level:	Dvb-t: -75 ~ -25 dbm
	Dvb-t2: -70 dbm ~ -25 dbm
Antenna power:	5 v dc, max. 100 ma, shortcut protected

video decoder

Profile level:	Mpeg-2 mp@ml, mp@hl, mpeg-4 h.264/avc, mpeg-4 H.265/hevc
Video resolutions:	576i, 576p, 720p, 1080i, 1080p
Decoding & video out:	Pal
Aspect ratio:	4:3, 16:9
Conversion: **audio**	Letterbox, pan & scan, full screen, ignore.

decoder

Audio support:	Mpeg-4 profile level 4
	Dolby digital plus*/ac3+/pcm
	Mpeg musicam layer ii
Sampling rate:	32, 44.1,48 khz
Audio mode:	Stereo, mono

*   Dolby digital plus and the double-d symbol are registered trademarks of dolby laboratories **multimedia**

Video playback:	mpeg-1 and mpeg-2 encoded (mpg), mkv, mpeg-4/h264, hevc/h265*

Audio playback: mp3, flac, ogg* picture view: bmp, jpg*

*   Playback of files cannot be guaranteed although extensions are listed, as it depends on codec, data bit rate and resolution used (all mpeg codec formats are supported). **Connectors** ant in - iec female

Rj-45 ethernet

Hdmi

Tv scart (rgb, cvbs, audio l/r)

S/pdif (coax.)

3.5 mm audio l/r

Usb 2.0 port: 5 v/800 ma (peak) supported

power adapter (dc12 v, 1.5 a, 18 w)

general data

Power supply:	Ac100 – 240 v ~ 50/60 hz
Input voltage:	Dc12 v, 1.5 a

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Power consumption:	7 w (typ.), 18 w (max)
Power consumption in standby:	Max. 1.0 w
Operating temperature:	0 °c ~ +40 °c
Storage temperature:	-10 °c ~ +50 °c
Operating humidity range:	10~85%, rh, non-condensing
Size (wxdxh) in mm:	220 x 164 x 43
Weight:	0.63 kg