

1. Foreword

It was the 30th April 2011, when some users came together to the traditional Vienna meeting in a small but nice restaurant on the old Danube.

Here the idea was born, to create a new EPG TAP for SRP / CRP-series. A discussion platform was required - a task for the Topfield forum, of course!

A request was made to Gerti, whether he could make us a sub forum available where we can develop in peace and in the small circle was immediately supported and brought us another colleague on board.

What we wanted to achieve now? What will they do? What should it do? And above all: how hot is it? Well, it should be intuitive to use, it is expected to link into the SRP / CRP design. It should be easy to use ... we had many ideas, some of them were already taken by other TAPs.

We ultimately decided to call it "SmartEPG_{TMS}". It describes best what we want. Also, we assume that the author of the 5x00 series is gone forever, what is always done so should this EPG also be a tribute to Eber, whom we all appreciate very much.

The authors of "The 5" are: FireBird, JayTee, Töppi, Gerti and Twilight and what follows, is the result of intense work over two months.

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3. *Functions and TAPs included in SmartEPG_{TMS} (SE)*

- **IQTuner** (when the TAP is running, the IQT feature in SE will be switched off, it is thus used the stand-alone IQT). IQT is a TAP that is responsible for recording control. It ensures that there will be produced an unencrypted recording, as long as you do not change channels.
- **RescueRecs** is built-in and is no longer needed with SE. This TAP saves the current recordings that were lost at inadvertent reboots.
- Continuation of a timer after a reboot.
- Recording overlapping timers from a channel.
- Supports 4 recordings at once (depending on receiver type).
- Display the AutoDescramble-timer in the "Timer" view.
- Automatic creation of timers using search function.
- Blocking of timers or serial timers.
- The membership of the logos, search and timers are assigned to the channels themselves and not the channel numbers.
- If you connected with TMSRemote (V3.0 and newer), you can use the computer keyboard when editing or entering text!
- The views "Guide" and "Overview" will be displayed with the live image.
- It will be scanned per transponder.
- The scan timer is automatically created and managed by SE. In case of collisions with existing timers, the scan timer is moved accordingly.
- At present, there is support for German, English (thanks to Maria, Referee and brewer65), French (thanks to LAL), and Dutch (thanks to undersurface and unimatrix). Additional languages can be added using the supplied SmartEPG_tms.lng.

4. Installation

Two types of installation are available: the manual installation and TAPtoDate.

4.1. Manual Installation

For the manual installation of TAP a packaged version is available here (http://www.topfield.cc/files/Firebird/SmartEPG/SmartEPG_Install.zip), which can be downloaded and unzipped. Depending on whether you want to start SmartEPG_{TMS} automatically every time the Topfield is switched on or not, copy the unpacked TAP to /ProgramFiles/AutoStart/ or ProgramFiles/. For automatic operation the SE start via AutoStart is necessary, otherwise there will be no collection of EPG data via scan timer and no automatic programming of timers. After the TAP has been transferred to the Topfield, you start the SmartEPG_Install.tap on the Topfield file list. The Install-TAP generates several directories and files, the process takes only about one second. Then SmartEPG_{TMS} is started immediately.



4.2. Installation using TAPtoDate

When the installation is done using TAPtoDate it eliminates downloading and copying, as this is done by TAPtoDate itself. Here, just run TTD, select SmartEPG_{TMS} from the list by clicking OK, select the latest version with OK and then "Install" with OK. Again, it is advisable to answer the question of AutoStart with Yes.

5. Initial Startup

When SmartEPG_{TMS} is started for the first time, a few settings have to be set and the first scan has to be done. If you have set in the SRP-recording menu "Timer Recording Padding [Front]" or "[Rear]", you will be asked by SmartEPG_{TMS} whether it should be reset to 0. This is highly recommended because SmartEPG_{TMS} takes care of padding by itself. (see [setup point 15/16](#)).

Specify in the next screen, which channels are to be collected for the EPG data at all. While there is a "select all stations" button, you should choose only those channels that you are really interested in, otherwise the processing times are driven unnecessarily high.

If you leave this screen with , you will end up in the Setup menu (see [setup](#)). The basic settings are selected so that you do not specifically have to deal with the details of this menu and you are able to leave with .


The last step involves collecting the EPG data. A window informs you that the EPG database is empty and asks if the scan should be performed now. For SmartEPG_{TMS} to be able to operate properly the response **SHOULD** be answered in the affirmative here. The duration of the scan depends on the number of transponders, which must be scanned. Since the incoming data is analyzed in real time, there is no fixed scan time per transponder, the average will be at about 40 seconds per transponder. Transponder with a lot of channels or these that change data during the scan, the records may take up to 10 minutes (a typical scan should take no more than 2 minutes in Australia).

Once the scan is done, you end up in the Guide view and can work with SmartEPG_{TMS}

6. Views

6.1. Guide

This view is called directly with the **GUIDE** button or from any other view with button **1**. An alternate button can be set in the setup (see [setup point 8](#))





Time	Program	Duration
13:00	Golf: Australian Ladies Masters 2012	182/299'
17:59	Minuscule	6'
18:05	Expedition Tiger	54'
19:00	ABC News	32'
19:32	Grand Designs	57'
20:30	Zen	92'
22:02	The Real Graham Kennedy	56'
22:59	Travelling North	95'
00:35	Gunrush	85'
02:00	Grand Designs	48'
02:48	rage	73'
04:02	The New Inventors	29'
04:32	Can We Help?	28'
05:01	Gardening Australia	29'



Video Preview: Golf: Australian Ladies Mast... Poised for a thrilling final ro... Su 05.02 13:00 - 17:59

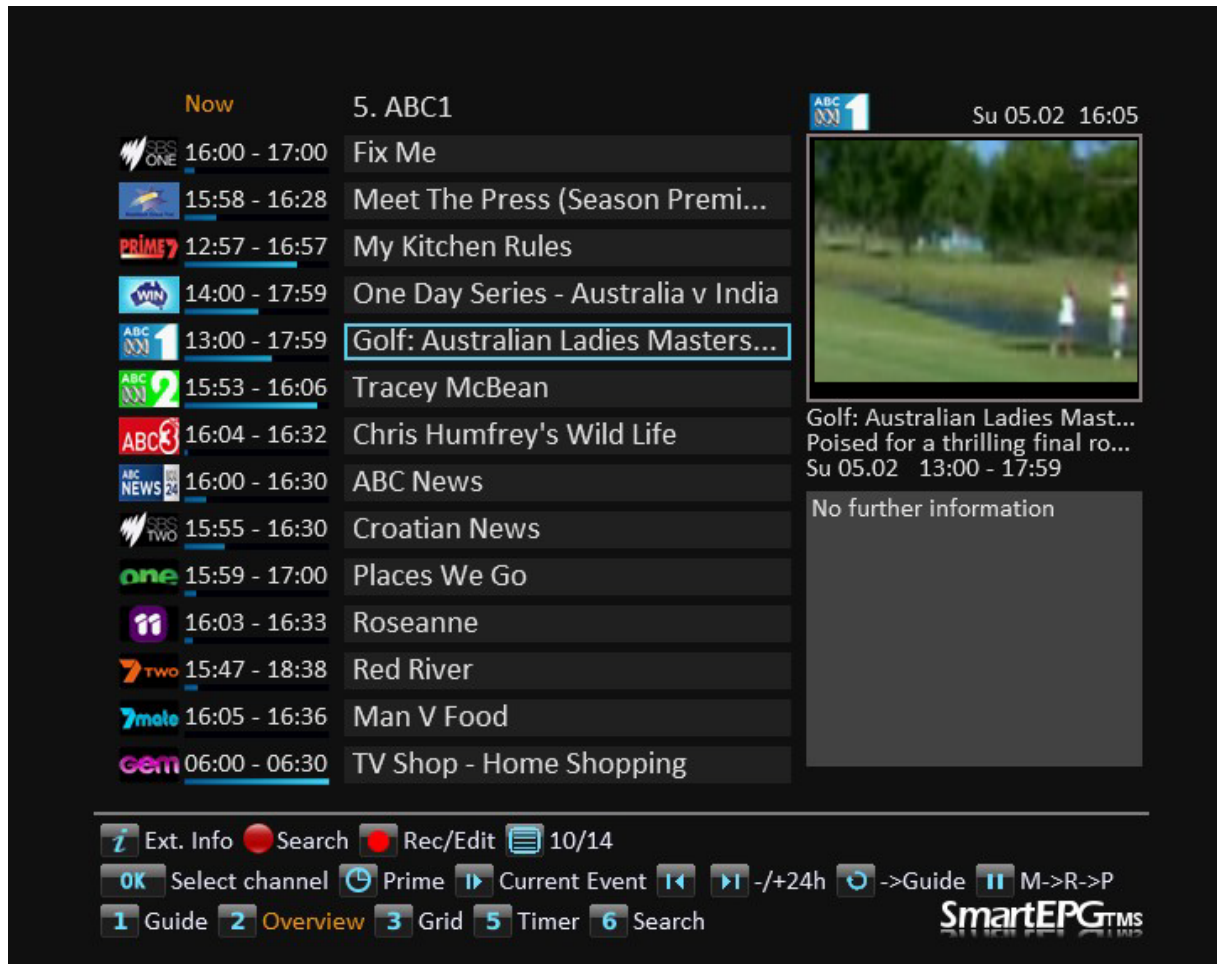
No further information

Bottom Bar: Ext. Info Search Rec/Edit 10/14 OK Select channel Prime Current Event +/-24h M->R->P 1 Guide 2 Overview 3 Grid 5 Timer 6 Search


This view can be changed to 14-lines by pressing . This will be stored until you change to 10-lines by pressing  again. Only in case of 14-lines, will Look&Feel [menu point 12](#) be considered.



6.2. Overview 1

This view is called directly with the button selected in the setup (see [setup point 9](#)) or from any other view with button  or, when Overview 2 is active, toggled with button .





With buttons left / right on the pad you can step to "after 1...10".

With the -button you can switch to the Guide view of the selected channel.


This view can be changed to 10-lines by pressing . This will be stored until you change to 14-lines by pressing  again. Only in case of 14-lines, will Look&Feel [menu point 12](#) be considered.



6.3. Overview 2

This view is called directly with the button selected in the setup (see [setup point 9](#)) or from any other view with button  or, when Overview 1 is active, toggled with button .



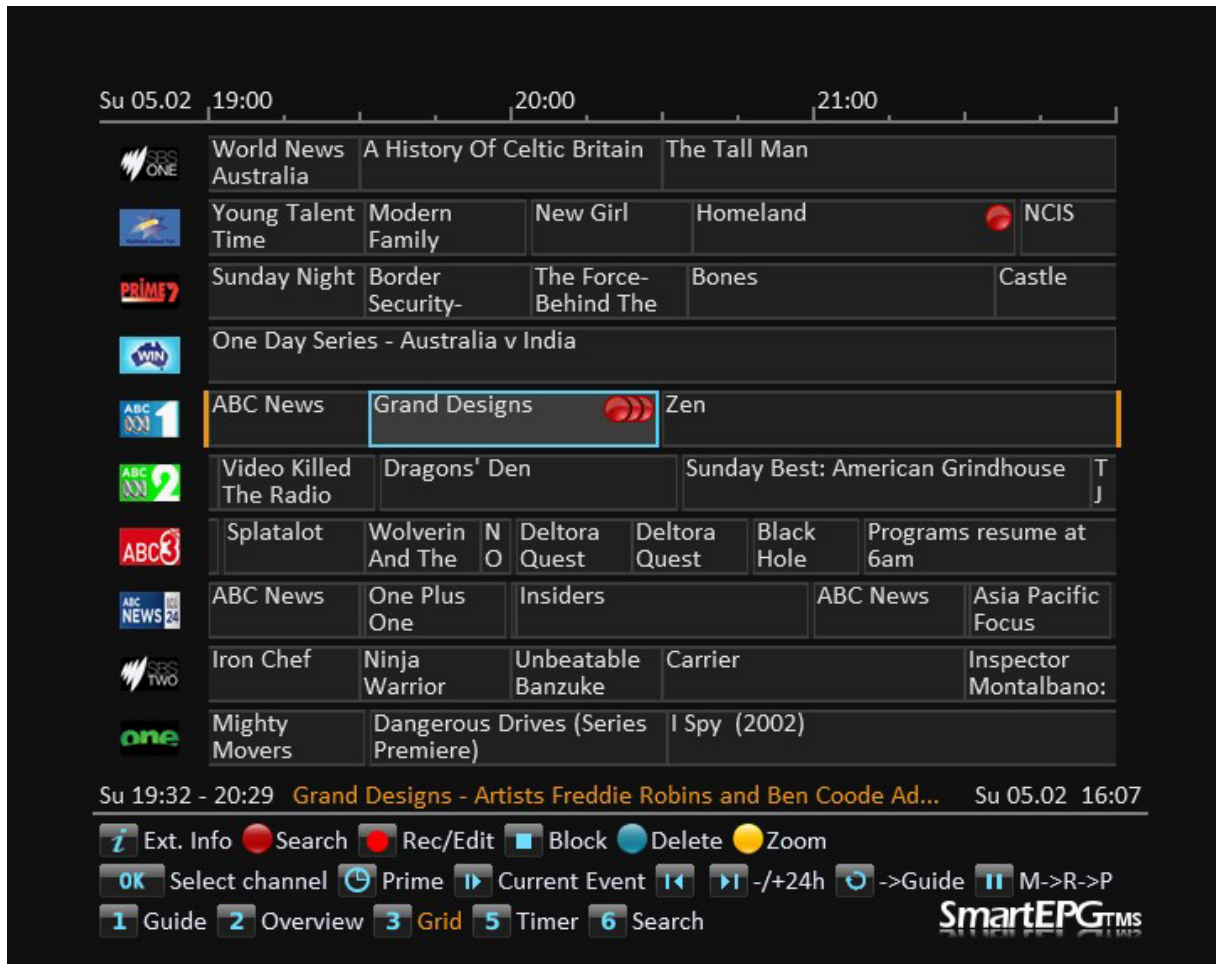
With buttons left / right on the pad you can step to "after 1...10".


With the -button you can switch to the Guide-View of the selected Channel.

This view can be changed to 10-lines by pressing . This will be stored until you change to 14-lines by pressing  again. Only in case of 14-lines, will Look&Feel [menu point 12](#) be considered.


6.4. Grid

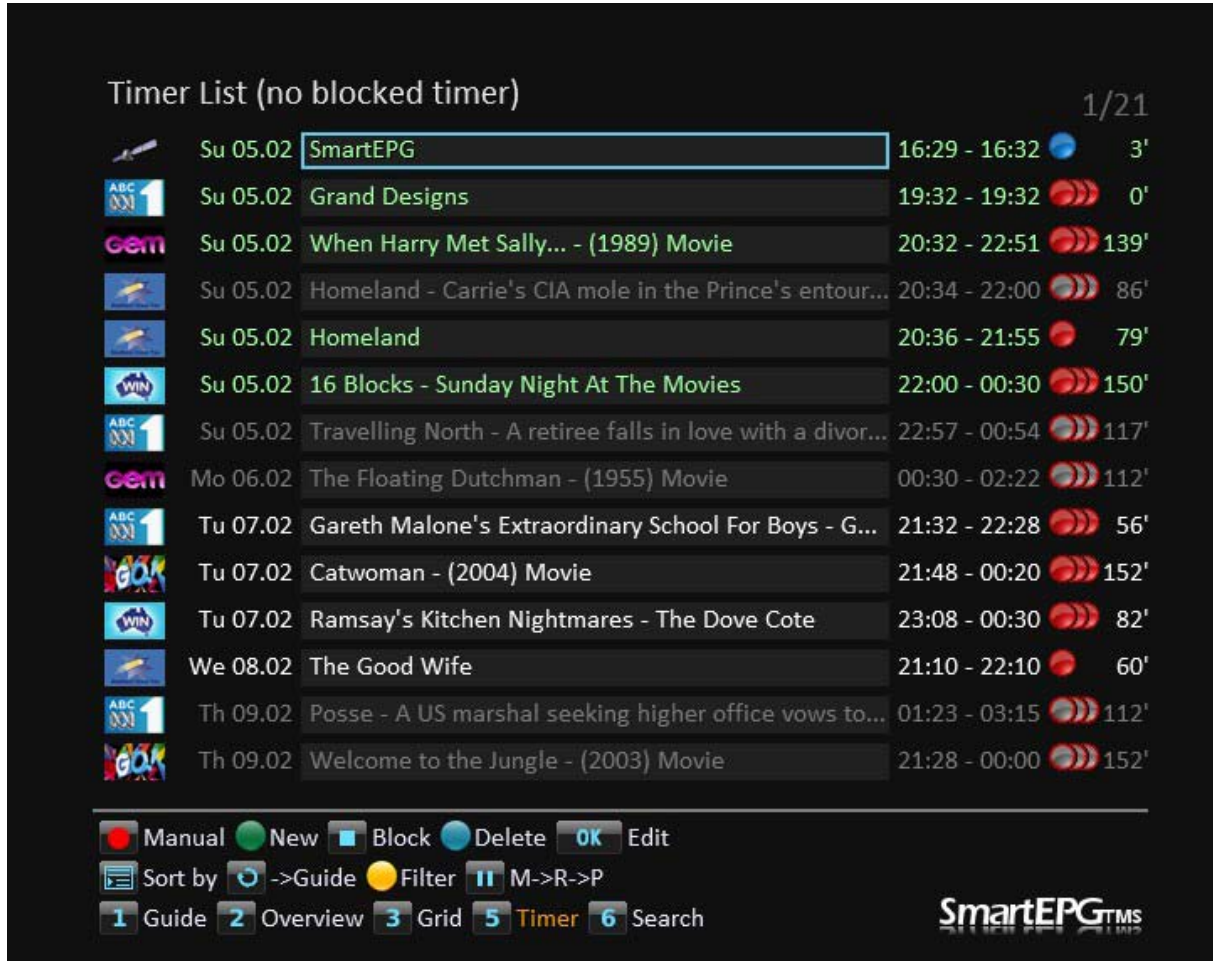
This view is called directly with the button selected in the setup (see [setup point 10](#)) or from any other view with button **3**.




For navigation use the directional pad. With the -button you can switch to the Guide-View of the selected Channel.


6.5. Timer


This view is called directly with the button selected in the setup (see [setup point 11](#)) or from any other view with button .




Day/Date	Channel	Title	Start/End Time	Status	Duration
Su 05.02	SmartEPG		16:29 - 16:32		3'
Su 05.02	ABC 1	Grand Designs	19:32 - 19:32		0'
Su 05.02	Gem	When Harry Met Sally... - (1989) Movie	20:32 - 22:51		139'
Su 05.02		Homeland - Carrie's CIA mole in the Prince's entour...	20:34 - 22:00		86'
Su 05.02		Homeland	20:36 - 21:55		79'
Su 05.02	WIN	16 Blocks - Sunday Night At The Movies	22:00 - 00:30		150'
Su 05.02	ABC 1	Travelling North - A retiree falls in love with a divor...	22:57 - 00:54		117'
Mo 06.02	Gem	The Floating Dutchman - (1955) Movie	00:30 - 02:22		112'
Tu 07.02	ABC 1	Gareth Malone's Extraordinary School For Boys - G...	21:32 - 22:28		56'
Tu 07.02	GO!	Catwoman - (2004) Movie	21:48 - 00:20		152'
Tu 07.02	WIN	Ramsay's Kitchen Nightmares - The Dove Cote	23:08 - 00:30		82'
We 08.02		The Good Wife	21:10 - 22:10		60'
Th 09.02	ABC 1	Posse - A US marshal seeking higher office vows to...	01:23 - 03:15		112'
Th 09.02	GO!	Welcome to the Jungle - (2003) Movie	21:28 - 00:00		152'











With , you may combine timers manually, e.g. to circumvent conflicts resulting from overlapping timers.

With , the list of the Timer view can be filtered by "All timer" / "unblocked timer" / "Blocked timer"


With , you can remove the EPG information from a timer and convert it to a manual timer. This is important for manual created repeating timers. Otherwise the timer will be classified as "Lost-event timer" (EPG-data of the timer not longer complies with the actual EPG-data). Depending on the settings in the setup ([point 19](#)) there will be no recording. With the same button you can convert an M-Timer to a manual timer.

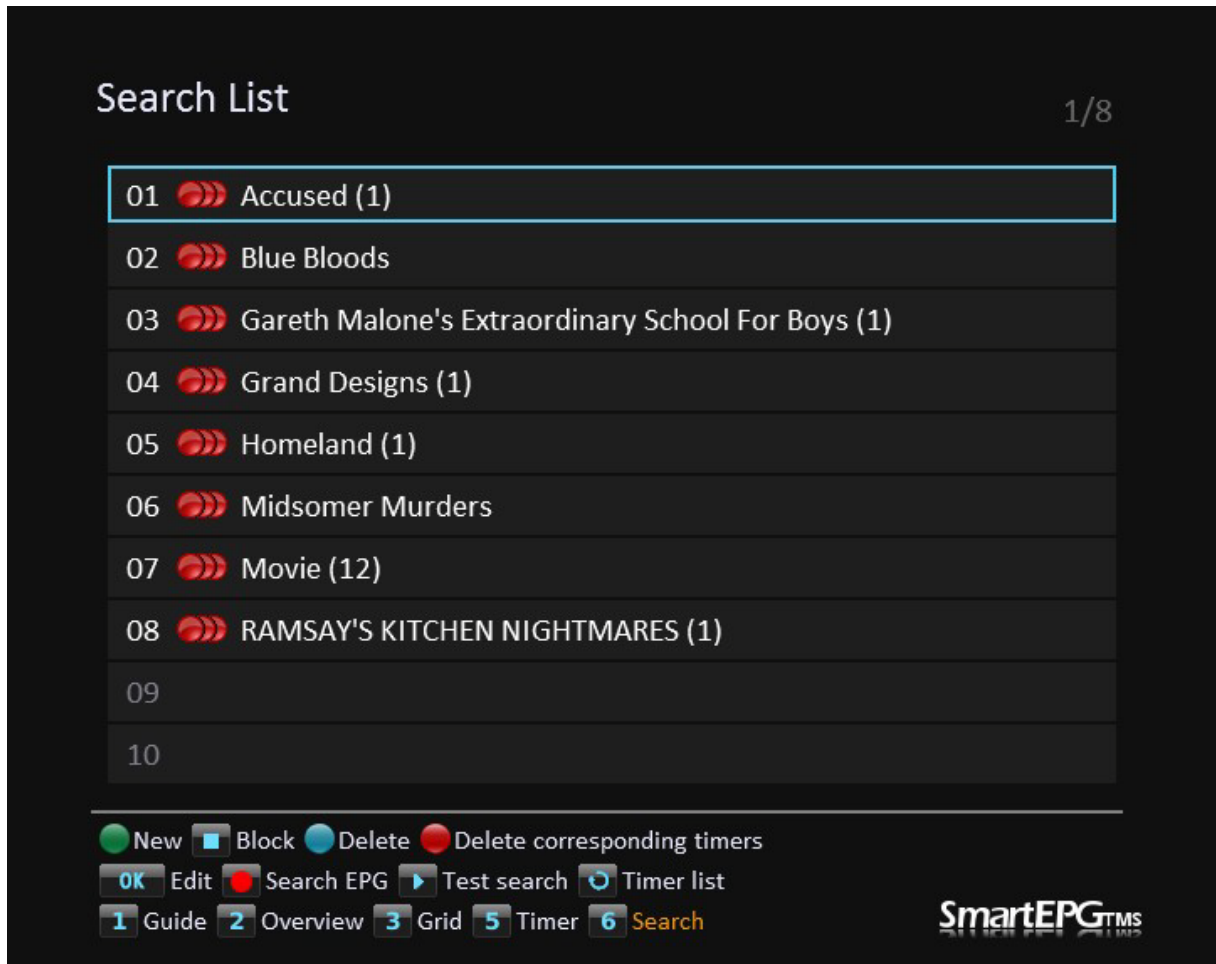
With the button  new timers (displayed in green) are acknowledged. If the Look&Feel item 9 ("Coloured timer list ") is set to "New timer" or "Coloured list& new timer", any new timer created by a search creates is displayed in green text. Clicking on Pause will set a flag that you have seen them.


6.5.1. Explanation of Timer-Icons


-  ... Manual timer
-  ... Manual timer, blocked
-  ... Series timer
-  ... P-Timer
-  ... SmartEPG_{TMS} Scan-Timer
-  ... Timer, which was not set due to a conflict
-  ... Timer, which points to a nonexistent EPG-entry (lost event)
-  ... Timer that combines two or more timers in a single recording. (Combi-timer)
(see [setup point 17](#))
-  ... Timer, which is part of the above combi-timer (see [setup point 17](#))
-  ... Marker timer. This type of timer does not result in a recording, it only is used as a reminder. By pressing the stop button it may be changed to normal timer.


6.6. Search Word List

This view is called directly with the button selected in the setup (see [setup point 12](#)) or from any other view with button .




With button , a search can be initiated. It is the same search that is conducted after a nightly scan. Accordingly, the results are also set timers. If M-Timers are set not to show in the timer list, they may be displayed temporarily with this search.

With button , a test search can be initiated where also those hits are shown for which no timers were set (also see [setup point 24](#)). If M-Timers are set not to show in the timer list, they may be displayed temporarily with this search.

With button , all timers set by the selected search request will be deleted.

6.6.1. Search with Exceptions and logical operations

For each search request, up to 20 keywords can be entered, the search words can be entered using the keyboard. It is recommended to add a * in front of and behind the search term by pressing . E.g. the search word is now defined by *today*, this will also find "Australia today". After saving the search term, it must be set whether the search shall take place only in the title (T), in the description (B), in title and description (TB), in extended info (E) or in genre (G).

The assessment can be adjusted from -99 to +99. SE sets a timer to when the sum of scores $\geq +50$. Here are some examples:

T +25 *star*

T +25 *trek*:

takes only programmes, which contain both search words in the title (logical AND)

B +50 *starship*

B +50 *enterprise*

finds items that contain at least one of the two search words in the description (logical OR)

T +50 * spaceship*

T-10 *voyager*

finds items that contain the first search word and does NOT contain the second keyword

T +50 rome

finds items that only contain the word "Rome".

6.6.2. Search Order within a Period

You can assign a validity period to a search operation. This is done in the fields "Start Date" and "End date". It is not necessary to fill one or both of the fields.

6.6.3. Search Order with Min. / Max. Programme Length

If you want to exclude short or long programmes as a hit, you may enter the corresponding values in the fields of maximum / minimum length.

6.6.4. Genre-List

The following list contains the terms defined by the channels for different genres. To search for genre keep the same rules as mentioned for the title search.

E.g. a search for all science fiction films: G+50 *science fiction*

It should be noted that programmes are also included, which are declared as fantasy or horror, there is no precise distinction.

Movie/Drama

Movie/Drama (general)
 Detective/Thriller
 Adventure/Western/War
 Science Fiction/Fantasy/Horror
 Comedy
 Soap/Melodrama/Folkloric
 Romance
 Serious/Classical/Religious/Historica
 Movie/Drama
 Adult Movie/Drama

News/Current Affairs

News/Current Affairs (general)
 News/Weather Report
 News Magazine
 Documentary
 Discussion/Interview/Debate

Show/Game Show

Show/Game Show (General)
 Game Show/Quiz/Contest
 Variety Show
 Talk Show

Sports

Sports (general)
 Special Events (Olympic Games, World Cup, etc.)
 Sports Magazines
 Football/Soccer
 Tennis/Squash
 Team Sports (Excluding Football)
 Athletics
 Motor Sport
 Water Sport
 Winter Sports
 Equestrian
 Martial Sports

Children's/Youth Programmes

Children's/Youth Programmes (general)
 Pre-School Children's Programmes
 Entertainment Programmes for 6 to 14
 Entertainment Programmes for 10 to 16
 Informational/Educational/School Programmes
 Cartoons/Puppets

Music

Music/Ballet/Dance (general)
 Rock/Pop
 Serious Music/Classical Music
 Folk/Traditional Music
 Jazz
 Musical/Opera
 Ballet

Arts/Culture

Arts/Culture (without Music, general)
 Performing Arts
 Fine Arts
 Religion
 Popular Culture/Traditional Arts
 Literature
 Film/Cinema
 Experimental Film/Video
 Broadcasting/Press
 New Media
 Arts/Culture Magazines
 Fashion

Social/Political Issues/Economics

Social/Political Issues/Economics (general)
 Magazines/Reports/Documentary
 Economics/Social Advisory
 Remarkable People

Education/Science/Factual Topics

Education/Science/Factual Topics (general)
Nature/Animals/Environment
Technology/Natural Sciences
Medicine/Physiology/Psychology
Foreign Countries/Expeditions
Social/Spiritual Sciences
Further Education
Languages

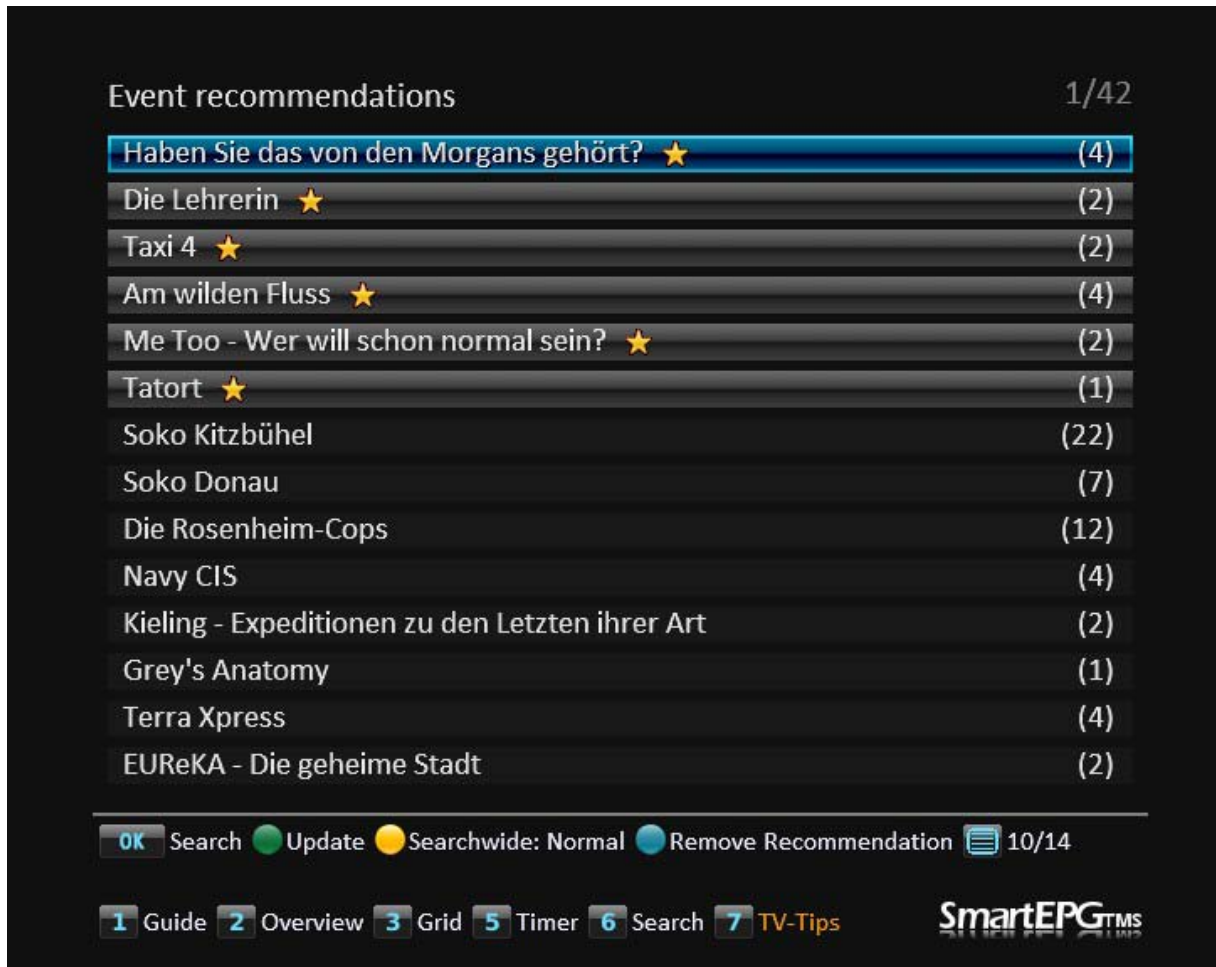
Leisure Hobbies

Leisure Hobbies (general)
Tourism/Travel
Handicraft
Motoring
Fitness And Health
Cooking
Advertisement/Shopping
Gardening

6.7. TV Tips



This view is called directly with the button selected in the setup (see [setup point 13](#)) or from any other view with button **7**.

For using this view [setup point 21](#) has to be activated.



The view shows a list of programmes that might meet your own interests and also a list of up to 10 general recommendations for the next three days. For this function, the timers are matched with timers of other users and SmartEPG_{TMS} generates recommendations. This requires your acceptance of the transfer of your own timer data (hash of the programme name), and the MAC address of the receiver. The MAC address is used for grouping and for allocating the timer to the receiver. Just like the timer data, it is exclusively used for this feature. Transmitted data will be deleted from the server after three days.



In order to exclude programmes from the recommendation, they can be marked and permanently hidden by pressing the blue button. For programmes bearing the name of the programme in their title, only this individual title is hidden. For programmes carrying the episode number in brackets in the title, all entries are hidden.

This view can be changed to 10-lines by pressing . This will be stored until you change to 14-lines by pressing  again.

6.8. Infobox

The Infobox may be displayed in normal or pilot-mode (see [setup point 14](#))

Normal:

	5. ABC1	Su 05.02 16:15	
13:00 - 17:59	Golf: Australian Ladies Masters 2012 Poised for a thrilling final round, ABC TV's Stephanie Bra... 195/299'		
17:59 - 18:05	Minuscule Saved by the providential fall of a tiny egg, a mother ladybug ad... 6'		

Pilot-Mode:

	5. ABC1	Su 05.02 16:11	
13:00 - 17:59	Golf: Australian Ladies Masters 2012 Poised for a thrilling final round, ABC TV's Stephanie Bra... 191/299'		
17:59 - 18:05	Minuscule Saved by the providential fall of a tiny egg, a mother ladybug ad... 6'		
365 GB free	 S=94%  Q=100%	35140 / 65470 SD [576i]	T1

Playback/Timeshift/Play:


	12. 7TWO	Su 05.02 16:19	 
→ 16:46	Paul Merton In China Paul Merton In China 13/40'		

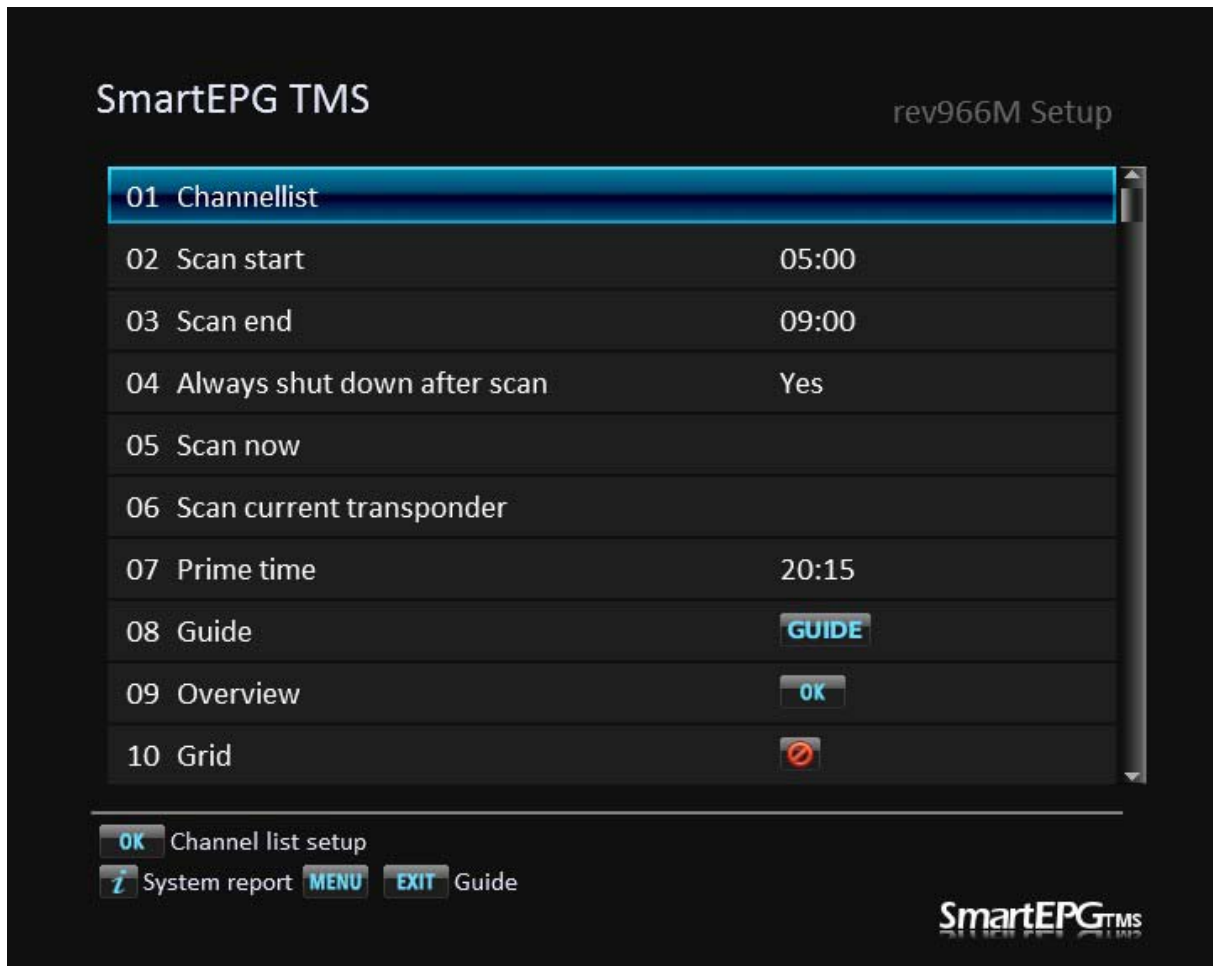
PVR-Infos:

Willkommen Österreich mit Stermann ...		
-4/48(+5) Min		
Ski: FIS Weltcup Abfahrt der Herren ...		
18:37 - 18:50 (00:01:21)	ORF1 HD	
Bingo - 2012-01-21 18-37		
18:37 - 19:02 (00:01:16)	ORF2 HD	
The Voice of Germany - 2012-01-21 1...		
18:38 - 19:40 (00:00:51)	SAT.1 HD	
Die Simpsons - 2012-01-21 18-38		
18:38 - 19:10 (00:00:26)	ProSieben HD	

7. Setup

7.1. Standard Setup

The setup may be called from any view by pressing  :



01 Channellist: here you select the channels you want to scan. For each channel you can choose between "scan EPG / ignore / display only / Scan multichannel EPG"

If you wish EPG-data to be collected during the scan choose scan EPG.

Channels set to "ignore" will not be displayed in SE.

Channels set to "display only" will appear in SE but EPG-data will only be collected if you remain on this channel.

The "Scan multichannel EPG" option is only useful for some Swiss users.

Any changes result in renewing the EPG database as soon as you leave this menu. New selected channel which are on a transponder that was not scanned yet will show no EPG data until the next automatic or manual scan.

02/03 Scan start/end: this sets the time slot for the SE scan timer. This timer will be generated every day so there will be no collision with other timers. (see the FAQ for more details).


04 Always shut down after scan: when set to "Yes" the receiver will shut down after scan whether it was on before the scan or not.

When set to "No" the receiver will shutdown only if it was off before scan.

05 Scan now: starts a scan on selected channels ([01](#)).

06 Scan current transponder: starts scan on active channel.

07 Prime time: selects the prime time which is called by pressing the clock-button in the different views.

08 Guide: selects the button which calls the Guide view (standard: )



09 Overview: selects the button which calls the Overview view (standard: no button)

10 Grid: selects the button which calls the Grid view (standard: no button)

11 Timer: selects the button which calls the Timer view (standard: no button)

12 Search: selects the button which calls the Search view (standard: no button)

13 TV-Tips: selects the button which calls the TV-Tips view (standard: no button)
see also [TV-Tips](#).

Remark to 09...13: all views with no selected direct button may also be called by pressing ( ... ) in any other view.



14 Infobox: SE brings its own Infobox, possible selections are: SmartEPG, SmartEPG Pilot, Original SRP. If you use another TAP for displaying the infobox, this point has to be set to "Original SRP".

15/16 Pre/Post padding: general setting for manual timers and search requests. You always may edit this for each search or timer individually. **IMPORTANT: front/rear padding in the SRP recording menu should be set to 0/0.**

17 Search width: specifies how many days in the future timers are set by search requests.

18 Combine double episodes: specifies if new search requests or timers get the "combine allowed"-flag.

19 File name: specifies how the record name is composed.

20 Lost events: specifies the reaction to timers, which point to EPG-data that is no longer available. Mostly the reason is found on moving or cancelling the programme by the TV-station.

Possible options:

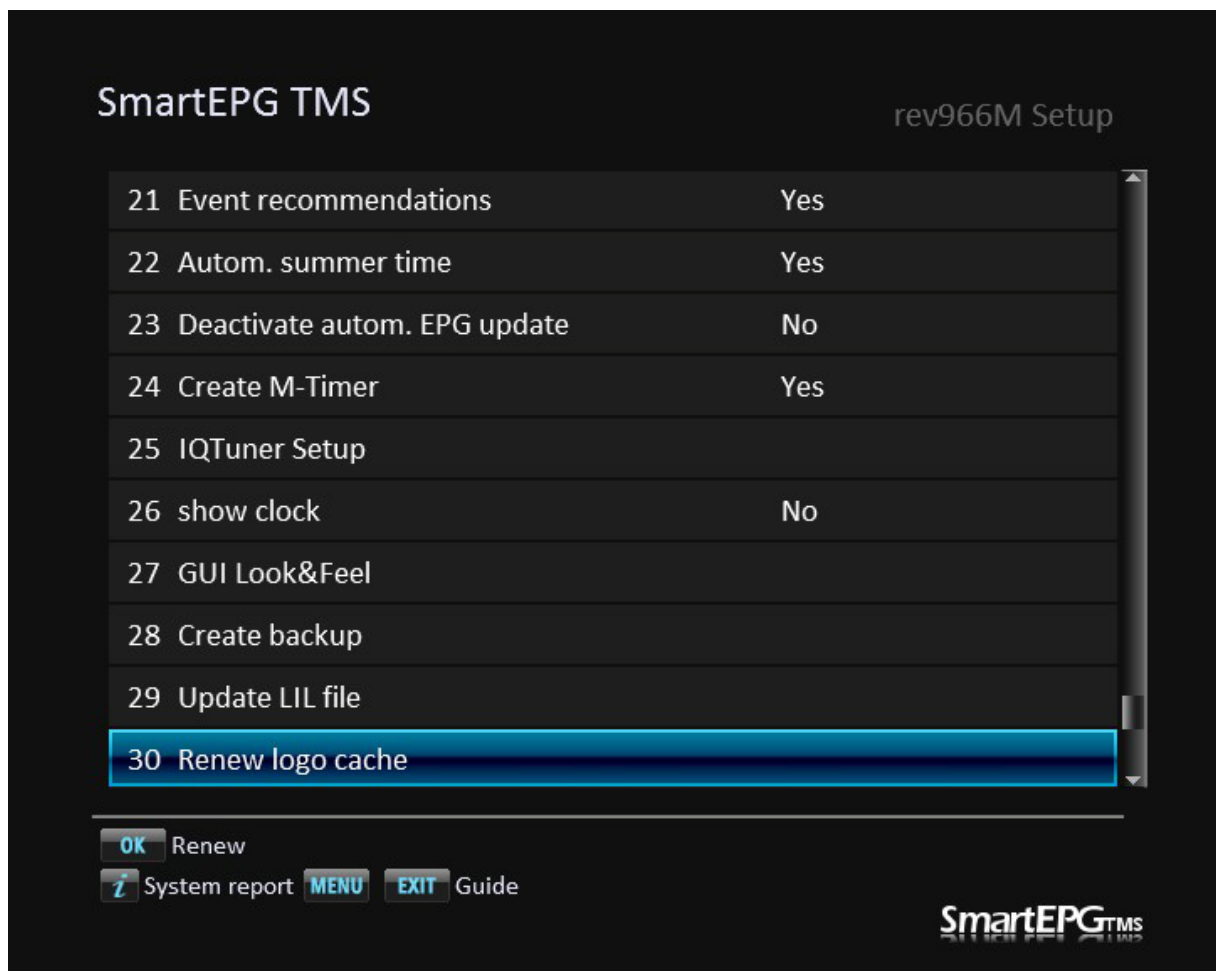
Show timer: timer will be shown in the Timer view, but not executed.

Hide timer: timer will not be shown in the Timer view and not executed.

Execute timer: timer will be executed. This may lead to double recordings. If the EPG entry has been deleted from the database by mistake (problem lies with the provider), the programme will nevertheless be recorded.

Delete timer: timer will be deleted from the database (not recommended).

21 Event recommendations: when set to "Yes" your timers will be uploaded once a day to a database (see [TV Tips](#)).



22 Autom. summertime: if set to "Yes", the EPG data transmitted by the channels will be automatically adapted to summer time. In this case, the receiver must be turned on after the time set for a short time only for correction of the internal clock. This automatic set only works, however, if channel and receiver are located in the central European time zone. If this is not the case and if this point has been deactivated, a scan must be done after the time set, as otherwise, the timers will record with an offset of 1 hour.

23 Deactivate autom. EPG update: when set to "No" EPG data will be updated in background if you stay on a channel for at least one minute.

24 Create M-Timer: when set to "No" M-timers will not appear in the timer list. If you wish to check your M-timers, choose test search in the Search List view (Play key). The advantage is that these timers don't make the timer list overcharged. If you work with M-timers leading to many hits, it is recommended to set this function to "No".

25 IQTuner Setup: for detailed information see [IQTuner Setup](#). The settings in SmartEPG_TMS are not effective for the stand-alone IQT-TAP.

26 Show clock: SE brings its own clock. For detailed Information see [GUI Look&Feel](#).

27 GUI Look&Feel: setup menu to create your personal look&feel, see [GUI Look&Feel](#).

28 Create backup: when set to "Yes", a backup of EPG data, databases and logs will be created which might be required by the programmers for fault analysis. To be found via a FTP client under /ProgramFiles/Settings/SmartEPG_TMS/Backup.

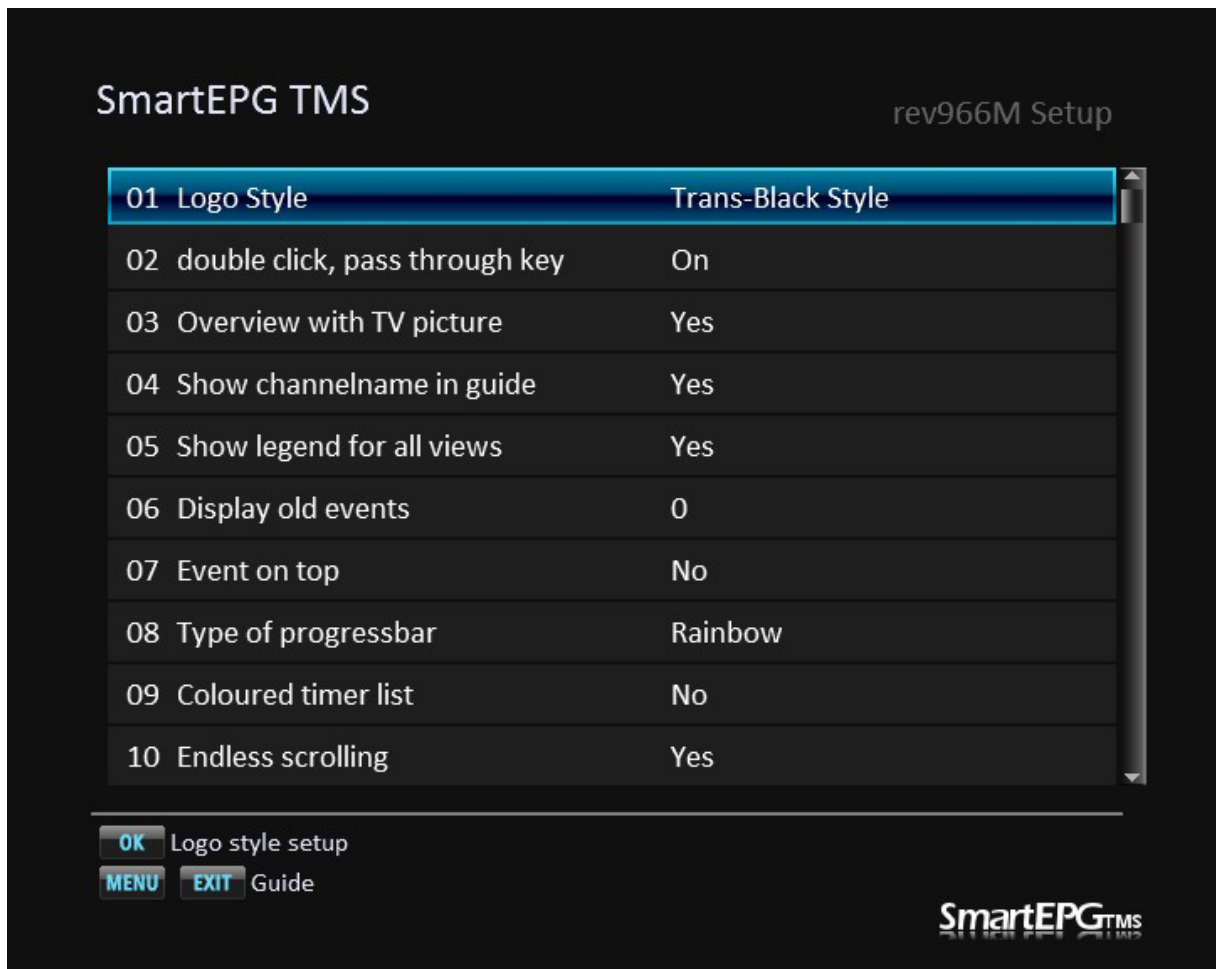
29 Update LIL file: if there are new channels in the channel list, they will be taken over by the LIL database (allocation of logos).

30 Renew logo cache: new logos can be transferred to the SE logo database.

31 Autobackup (Debugging): when set to "Yes", a backup will be generated every morning after the scan. If during the day, a timer is shifted by more than 20 min or if a timer is extended, a backup will also be created. Upon request, these backups can be sent to the team for fault analysis.

32 Stop SmartEPG_TMS: ends the TAP.

7.2. GUI Look&Feel Setup



01 Logo Style: for setting the logo style.

02 Doubleclick, pass through key: when set to "Yes", the original function can be activated by clicking the Guide or other pre-defined buttons twice.

03 Overview with TV picture: has been cancelled. Setting could be done directly in the view (see [Overview 1](#) and [Overview 2](#)).

04 Show channel name in guide: specifies whether channel number and name will be displayed additionally left of the logo.


05 Show legends for all views: specifies whether the third line of the legend is displayed.

06 Display old events: specifies the number of old events displayed in the Guide View.

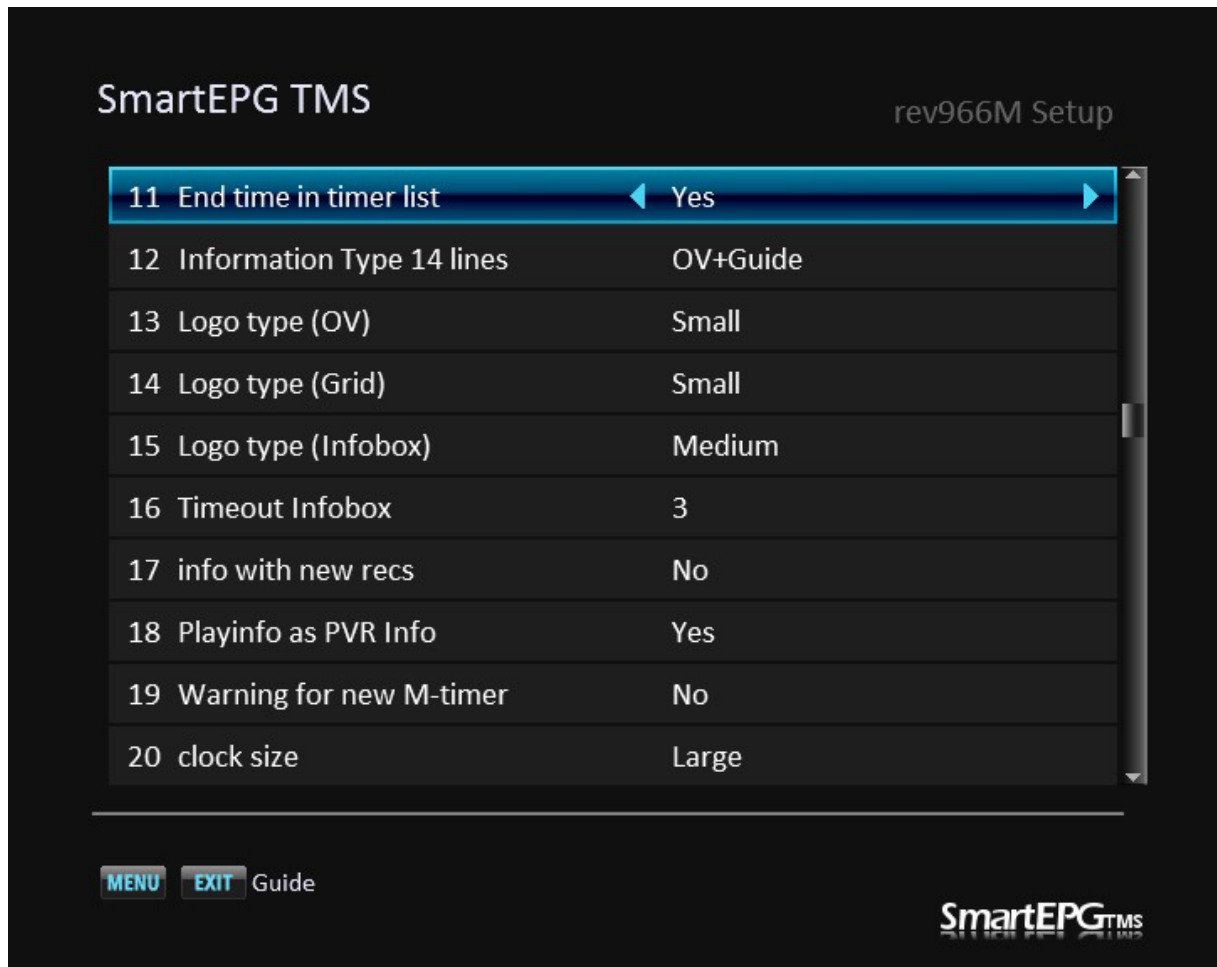
07 Event on top: specifies whether the active channel is on top of the list (Overview and Grid), or, e.g., the first 14 channels are shown if channel 7 is active (or 15 to 29 if one of these is active).

08 Type of progressbar: specifies the type of the progress bar, Blue or Rainbow.

09 Coloured timer list: timers are shown in different colours depending on their starting time. Today – light green, tomorrow – yellow. A new day starts at 8:00 a.m. not at 0:00.

New timers can be displayed in green until acknowledged by pressing .

10 Endless scrolling: when set to "Yes" scrolling doesn't stop on top or end of the list.



11 Endtime in timer list: specifies whether the end time is shown in the timer list.

12 Information type 14 lines: activates extended information in 14-line views with TV picture.

13/14/15 Logo type (OV/Grid/Infobox): specifies the logo size (small / medium / large). Also you may choose Channel name or Channel number instead of showing a logo.




16 Timeout Infobox: specifies the time in seconds until the infobox fades out after it has faded in automatically.

17 Info with new recs: specifies whether the PVR infos should fade in when a new record starts.

18 Playinfo as PVR Info: when set to "Yes", playinfos will be shown as PVR info. Otherwise the reduced infobox will be shown. The infobox will show more detailed information but will use more space.

19 Warning M-Timer: specifies the reaction on M-timers

New M Timer: a popup window will fade in when SE is called for the first time after startup and new M-timers are found.

Programme Countdown: one minute before an M timer is pending, PVR infos with the next (max. 9) M timers fade in. By pressing  you will change to the channel of the first M timer. With the buttons  ...  the corresponding M timer is chosen.

New Timer & Countdown: both functions (New M Timer and Programme Countdown) are active.

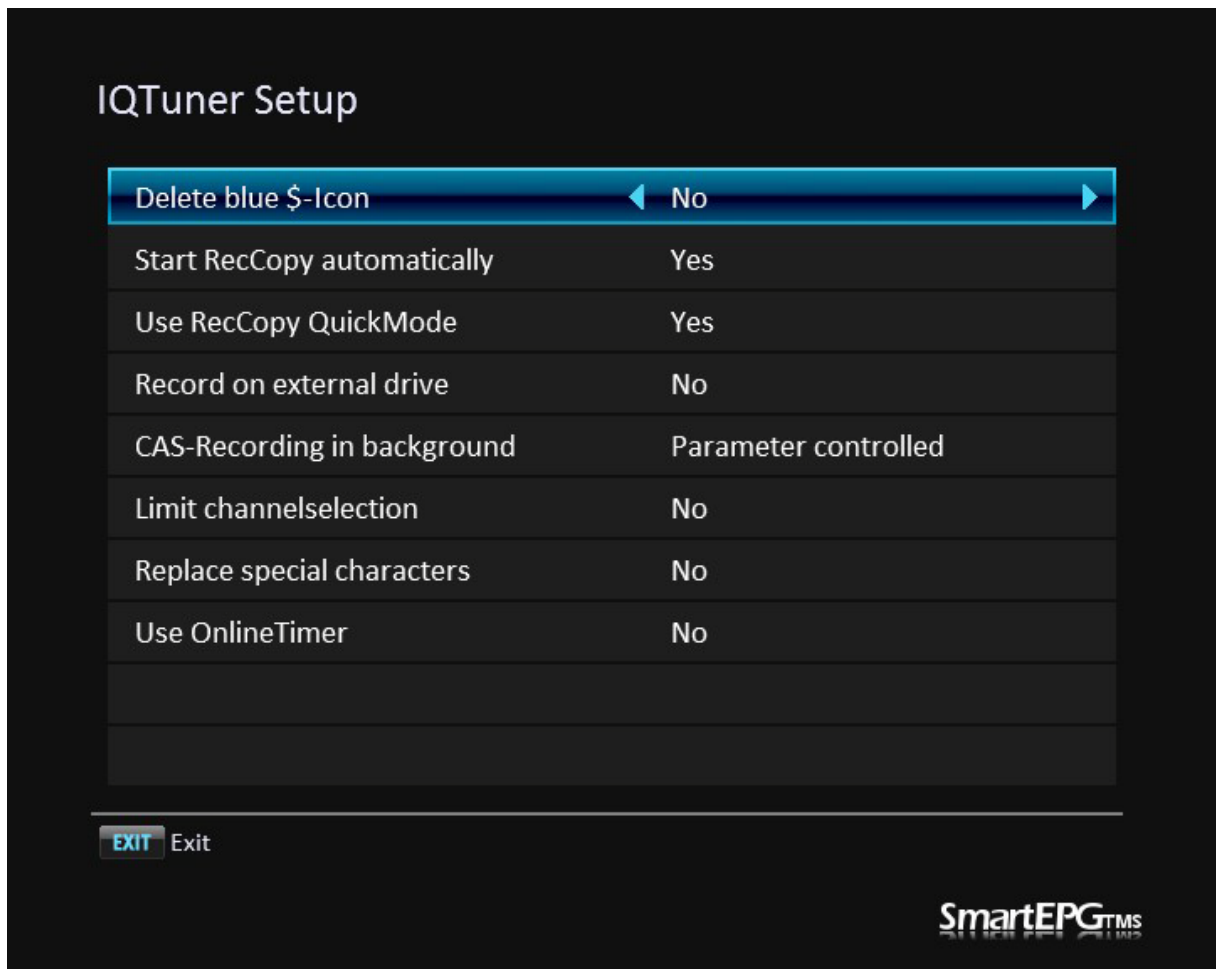
None: no warnings or info popups will be displayed.

20-24 Setting options for clock display: hopefully self explanatory.
To see the clock, [setup point 26](#) has to be set to "Yes".

25 Cursor Type: there are three types of cursor (Standard / Dark / Box)

26 High contrast: this increases the contrast of the text.

7.3. IQTuner Setup



There are several options in the IQTuner setup. The Option "CAS-Recording in background", however, is not available for all types of receiver, as they do not support this function.

Delete blue \$-Icon:

No: function not active

Yes: deletes a blue \$-Icon after recording

Start RecCopy automatically:

No: function not active

Yes: IQTuner will start RecCopy (if found on the HDD), for moving the file to AutoDescramble folder and generating a descramble timer.

Yes, delay shutdown: same function as above, but a receiver shutdown will be delayed until RecCopy finished its work.

Record on external drive:

No: recordings will be stored to the internal unless explicitly set in the timer.

Yes, if selected in menu: recordings will be stored to the drive specified in the system menu of the receiver. The setting will be restored by IQTuner even after a reboot.

Yes, if drive is available: if an external drive is connected to the receiver, all recordings will be stored to this drive. This requires that the external drive has been formatted by the Receiver.

CAS-Recording in background:

Standard: IQTuner only optimizes the tuner assignment.

Switch temporary if FTA: When a scrambled recording starts while staying on an FTA-channel, it will be changed to the recording channel for a few seconds, for getting a descrambled recording. Changing to another scrambled channel, or playing a scrambled recording, will cause a (partly-) scrambled recording.

Parameter controlled: When a scrambled recording starts while staying on an FTA-channel, IQTuner checks the start of descrambling of the recording in background. During the recording IQTuner checks all important parameter for a descrambled recording. If these parameters are kept during the recording, IQTuner corrects \$-flag after the recording without further control to descrambled.

Switch finally if FTA:

IQTuner changes finally to the recording channel if there is no other recording running on a scrambled channel and is descrambled to this point.

Limit channel selection:

No: function not active

Yes: IQTuner always will change back to the scrambled recording channel when another scrambled channel (SRP-2100, SRP-2410), or another channel (SRP-2401CI+, CRP-2401CI+) respectively is chosen.

Replace special characters:

No: function not active

Yes: IQTuner replaces special characters after the Recording stopped, so that it could be copied to an external drive without problems.

Use OnlineTimer:

No: function not active

Yes: to use this function, an account has to be created at <http://tms.hdpvr.de/igt>. The email address to be entered here must correspond exactly to the address in the email client of the mobile phone / the address for the website of tvtv, as only this way, the timers can be allocated to the receiver.

The padding (front/rear) you have to set there will be added to a padding you set in receiver!

Functioning of online timers

Now you have to edit the channel.lst (in /ProgramFiles/Settings/SmartEPG_TMS/). This file contains the most channels which are programmable via the app or the website. The TAP fills in this list partly automatic if it is able to identify the channels in the channel list exactly. All other channels have to be assigned to their channel number manually.

Programming timers by Phone:

- Start TV Spielfilm App
- Choose Programme and press the "Weiterempfehlen"-button
- Send the generated mail without changes to timer@hdpvr.de
- Done

Programming timers via tvtv Website:

- Visit the website
- Choose Programme and press the "Weiterempfehlen"-button
- As sender, fill in your email address as indicated for the registration for IQTuner OnlineTimer and as recipient timer@hdpvr.de
- Fill in sender- and recipient name
- Send
- Done

Programming Timers via email:


- Start email client and create new email
- As sender, fill in your email address as indicated for the registration for IQTuner OnlineTimer and as recipient timer@hdpvr.de
- Reference of the email may be left empty
- Enter timers in the email in one line as follows:
[DATE] | [STARTTIME]-[ENDTIME] | [CHANNEL] | [TITLE]
e.g.: 30.05 | 22:00-23:50 | ABC TELEVISION | The Straits
- Send
- Done

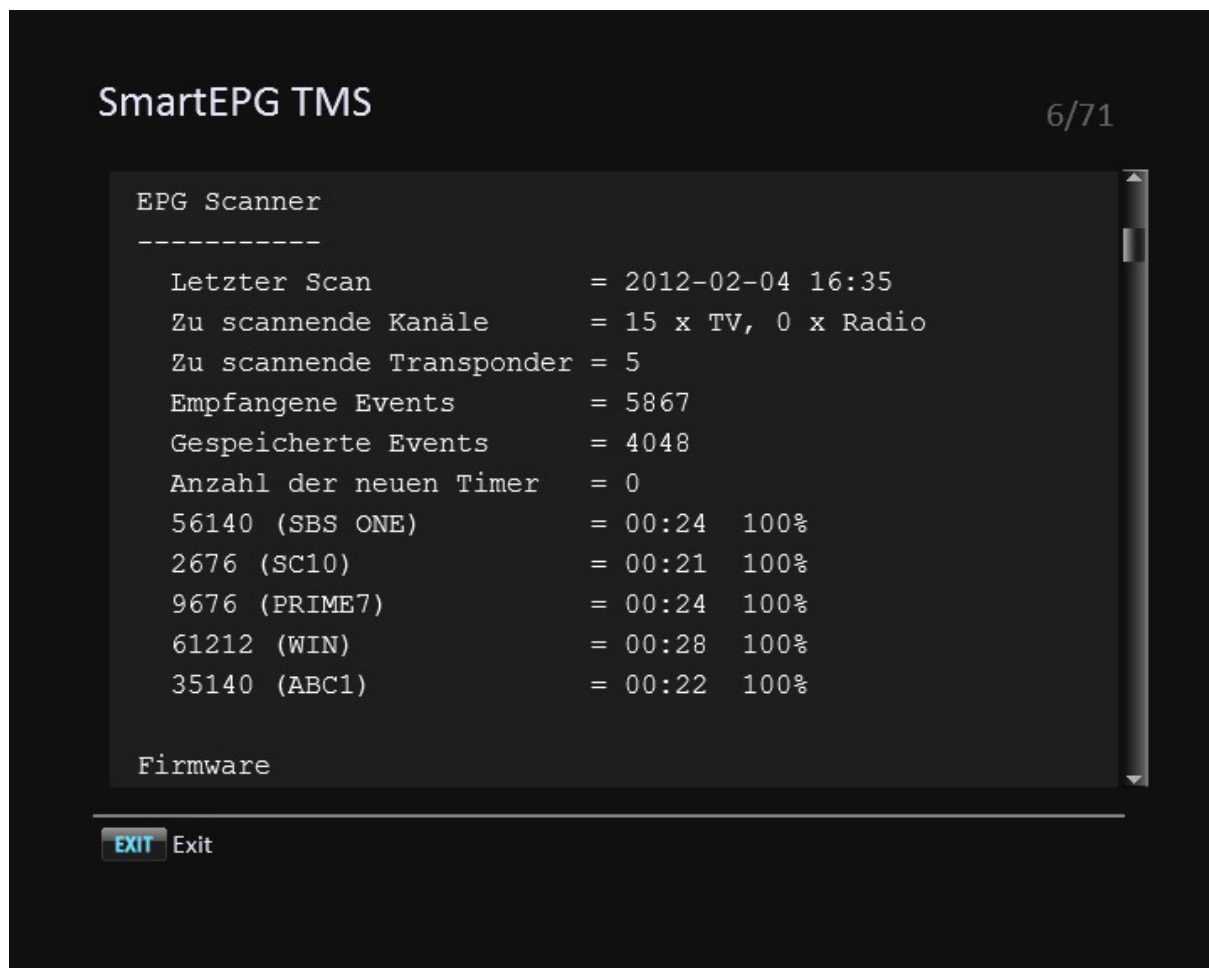
Next time the receiver starts up, it downloads the assigned timers und tries to set them in the receiver. (success will be confirmed by automatic email).

Timers will only be set at start (60s after a cold boot) and not during operation.

The biggest drawback of this solution is that there is no possibility to set ad hoc timers, timers will only be set at the next start of the receiver. At least it offers the possibility to set timers via app or website, although the receiver is not running.

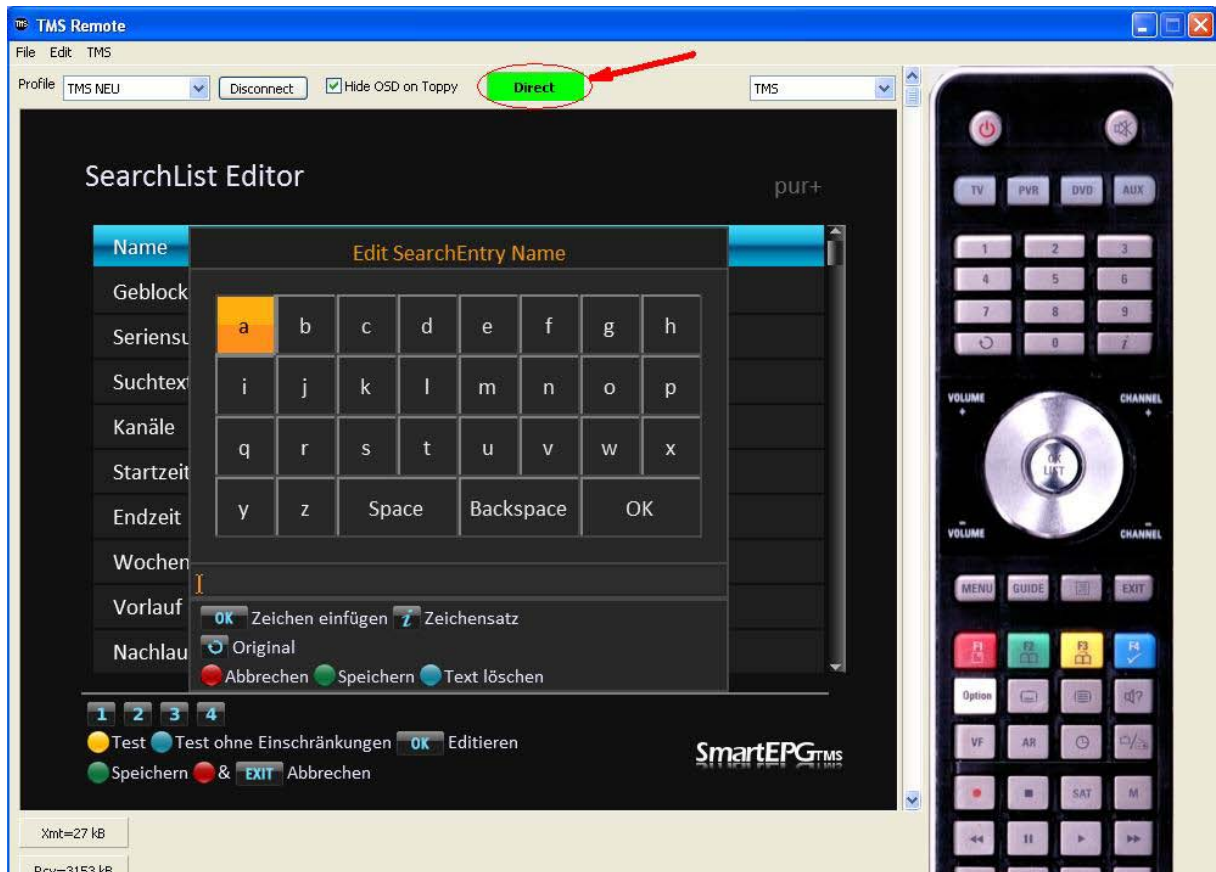
7.4. Info Window

The Info window displays information about SmartEPG_{TMS}, last scan, running taps, receiver hardware. Primary it is used for checking the last scan. It is opened by pressing  in setup.



8. Interaction with TMSRemote

Connected via remote and calling the virtual keyboard, TMSRemote will switch to "Direct" mode. Now you can use your computer keyboard to fill in text. This function is only available from version 3.0 and later!



If you hook "Hide OSD on Toppo", OSDs will not be shown on the TV, in Guide and Overview there will be no scaling of the TV picture. Therefore anyone watching TV will not be disturbed. Scrolling of extended information will be disabled, therefore the data rate transferred via remote will be reduced.

9. FAQs

Q: I am not able to activate channels in the channel list (setup point 1), there is always "not found"?

A: The receiver firmware is out of date, please update..

Q: At which time does a search generate timers?

A: After scan, manually by pressing  in Search view, after creating a new search, editing a search respectively.

Q: Is there a need for an autoff-TAP shutting down the receiver after scan?

A: No, SmartEPG_{TMS} does this itself

Q: What is the LIL list?

A: In this file the assignment of logos to channels is done. This is independent of channel numbers. If channels are moved or new settings are implemented no new assignment is necessary.

Q: Some logos will not be shown although they exist on the HDD.

A: The logo file probably has another name as in settings or LIL. First, update the LIL file via SmartEPG_{TMS} setup, then open the list with an editor and change accordingly. Please, never change the name of a logo file. Pass on the LIL file to the SmartEPG_{TMS} team after successful modification, so that these changes can also be passed on to other users.

Q: When change my settings, do I have to edit timers and searches?

A: No, timers and searches are assigned to the channel, not to the channel number.

Q: Why can't I retrieve information to a timer, also the recall button (jump to the event in Guide View) has no function?

A: This may happen if there is no (longer an) assignment to an EPG event. E.g. the timer is set manually via timer menu, a timer has been edited and changed recording channel, the EPG-event has been changed or deleted or got a new ID.

F: How do I set up the scan time ([Setup 02/03](#))? As I have only a few channels to scan and scanning is indicated with about 40s/transponder, 30 minutes should do?

A: This is not about how long the receiver stays on, but in which time period the scan may be started. SmartEPG_{TMS} sets the scan timer in this period that way that it will not collide with other timers. The period should be defined somewhat longer, as otherwise there will be no scan at all. SmartEPG_{TMS} shuts down the receiver immediately after scan and EPG search.

Q: What does the programmer mean with "Easter egg"?

A: Easter egg is a designation for a hidden and undocumented feature in computer programs.

Q: Why is this mentioned?

A: Because we have hidden one...