T+A

USER MANUAL

K 6

V 6.0

Order No. 9103 – 0264

Welcome!

We are delighted that you have purchased a **T+A** product. The **K6** DVD surround receiver forms the basis of a superb digital AV surround system whose overall design and comprehensive facilities fulfil all the requirements of a high-quality video and home cinema system.

The highly sophisticated signal processing section has been carefully developed to satisfy all the wishes of the demanding music lover, and is constructed using carefully selected audiophile components of the highest quality.

The latest **T+A** technology is designed to provide efficient energy exploitation in all modes of operation. The development of the **K6** was sponsored by the German Federal Environment Agency (DBU) as a contribution to improving energy efficiency in electronic equipment.

In our equipment production processes we avoid the use of materials which are environmentally harmful such as chlorine-based solvents and CFCs. As far as possible we avoid the use of plastics - especially PVC - in our equipment; instead we use metals or other non-harmful materials which are easily recycled and also provide effective electrical shielding. The heavy, all-metal case of the **K6** eliminates the possibility of external sources of interference adversely affecting reproduction quality.

For your own safety please be sure to read right through these operating instructions. It is especially important to observe the instructions regarding setting up and operating the equipment, and the safety notes.

We are grateful to you for placing your faith in us, and hope that you will enjoy many hours of pleasure with your **T+A K6 surround receiver**.

T+A elektroakustik

All components used in this device meet the current German and European safety norms and standards.

Manufactured under licence from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

'DTS' and **'DTS Digital Surround'** are trademarks of Digital Theater Systems, Inc.

'RDS' Radio Data System

This product complies with the Low Voltage Directive (73/23/EEC), EMV Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

IMPORTANT!   CAUTION!

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appear on your device:

Rear panel

CLASS 1
LASER PRODUCT

On the inner protective housing of the DVD mechanism

CAUTION:	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM
VORSICHT:	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN
ATTENTION:	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU
DANGER:	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM

Operation

Front panel controls and connections
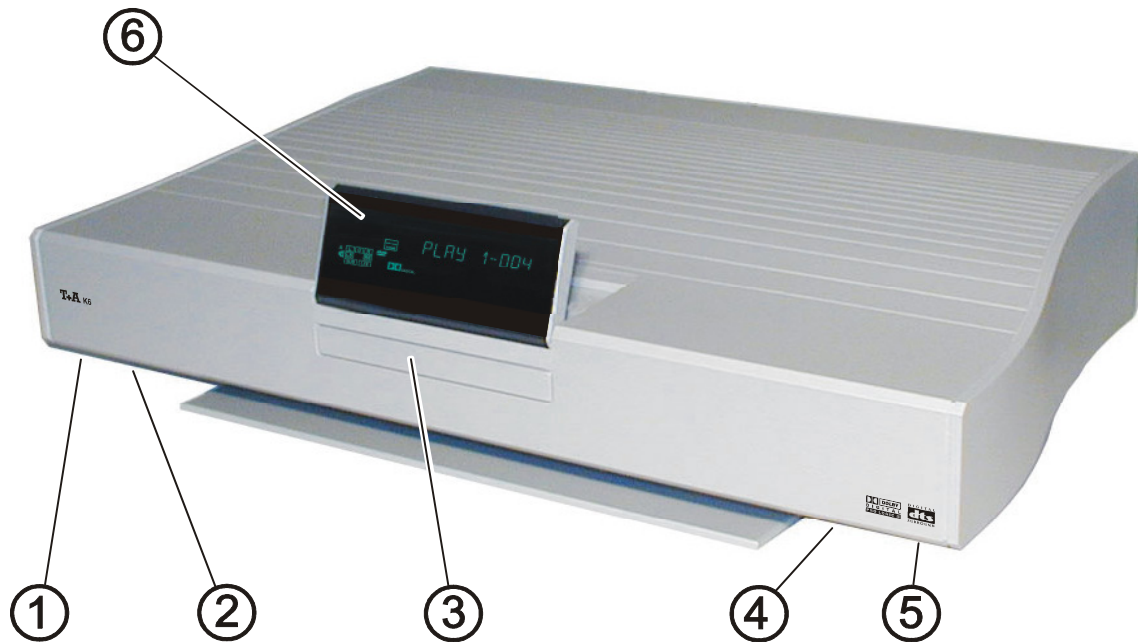
① Primary switch

The **K6** is normally switched on and off using the ⊙ button on the remote control handset.

The **K6** also features a primary switch (rocker switch) located on the left under the front panel. Operating the primary switch completely disconnects the **K6** from the mains supply, e.g. if you know you will be absent for a protracted period. The On and Off settings of the switch are marked on the rocker.

To use the machine you must first switch it on at the primary switch; it can then be switched on and off using the ⊙ button on the remote control handset.

Notes

If you switch off the **K6** at the primary switch, it still retains all the settings you have made. The integral clock continues to run for about two days.

If the **K6** is left switched off for a fairly long period the clock has to be re-set (manually, or automatically by RDS: see **'The tuner as alarm clock'**). The alarm function and the loop-through function for AV programme material (set-top box, video recorder) to the TV set are not available if the unit is turned off at the primary switch.

② Emergency buttons

To the right of the primary switch on the underside of the **K6** you will find three small buttons which can be used to control the machine in an emergency. These buttons can be used to operate the essential functions directly.

●   ● ●
Select   Change
button   button
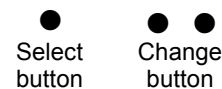
Press the **left Select button** to choose the function to be controlled, then use the two right buttons to alter the setting. The integral screen always displays the function which can be changed at any time:

VOLUME	Volume setting
SURND MODE	Select the decoder mode
SOURCE	Select the program source
STOP PLAY	Stop / Start CD/DVD playback
PREV NEXT	Skip track/title (disc mode) Switch program (tuner mode)
ALARM OFF	Switch alarm function OFF/ON
STDBY OFF	Switch unit to stand-by / switch unit off

Note

To leave the emergency control system simply wait for about 5 seconds after pressing the buttons.

③ CD / DVD drawer

Opening the drawer

To open the drawer first select the Disc Player as program source, then hold the (STOP) button on the remote control handset pressed in for about 2 seconds.

The drawer can also be opened by moving your hand close to the **sensor** ④ located below the unit's front panel.

Closing the drawer

Press the (OK) or (PLAY) button on the RC handset to close the drawer.

You can also close the drawer by giving it a gentle push.

④ Sensor

Infra-red sensor for opening the CD/DVD drawer.

⑤ Headphone socket

3.5 mm Ø barrel socket for stereo headphones with an impedance of at least 50 Ω.

This socket is also used to connect the calibration microphone for the automatic loudspeaker calibration process (see '*Configuration Menu*').

⑥ Multi-function screen

The integral screen provides information about the status of the **K6** and all its settings. The angle of inclination and brightness of the screen can be varied to ensure good legibility.

The screen runs back to its retracted setting when the unit is switched off; it reverts to the previously set position automatically when you switch on again.
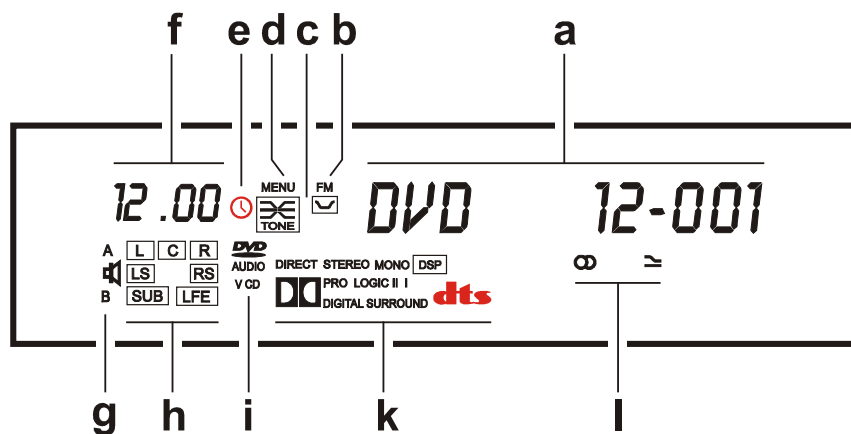
a   Main display

The main display provides context-sensitive information regarding the program source or the currently active process.

b   Tuner reception mode FM (VHF)

c   Tone control settings

These symbols indicate the current settings of the tone controls.

d   Menu symbol

Indicates that a device menu is open.

e   Timer symbol

Indicates that the timer is active.

f   Alarm time

When the timer is active this symbol indicates the alarm time. This only applies if the **K6** has been switched off from the RC handset, or is switched to stand-by mode.

g   Loudspeaker ◁ A and ◁ B

Indicates the status of the loudspeaker groups ◁ **A** and ◁ **B**.

h   Loudspeaker channels ◁ A

Displays the active loudspeaker channels for loudspeaker group ◁ **A**.
The display varies according to the content of the programme material currently playing..

i   Disc Player medium display

Indicates the type of disc (DVD, CD etc.) currently in the Disc Player.

k   Decoder mode

This display field informs you of the current operating mode of the surround decoder.
The decoder mode varies according to the settings you have made (surround, stereo, mono, sound field) and according to the sound format of the programme material currently playing.
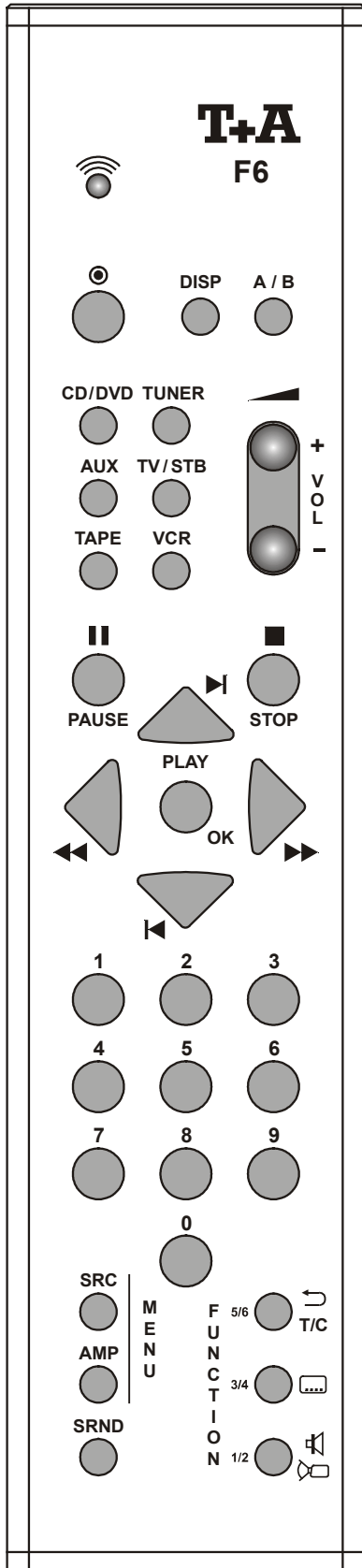
l   Tuner reception mode

ꏁ   glows when a stereo programme is picked up.
⌒   glows if the attenuator is switched on.

F6 remote control handset

The **F6** remote control handset controls all the functions of the **K6** DVD surround receiver. The adjustments you make are displayed on the integral screen and also on a TV set which is connected to the system.

Basic functions

◉ press briefly	Switches the **K6** on from the Off state *), and switches the unit to stand-by mode from the On state.
	In **stand-by mode** the **K6's** video pass-through circuit remains in operation, i.e. the programme from the selected video source continues to be passed to the TV set and video recorder, and can therefore still be viewed and/or recorded.
	The programme source being passed through the machine is indicated on the screen. It can be switched at any time using the **F6** RC handset.
	*) Note
	The pass-through function only works if the primary mains switch on the underside of the front panel is set to On.
◉ press for 2 sec.	**Switches the unit off.** In the Off state only the integral alarm timer remains in operation, and the integral screen displays the time of day. If the alarm function is active, the **K6** switches itself on automatically at the programmed alarm time.
DISP press for 2 sec.	Activates **screen angle adjustment**. The angle is adjusted using the ◀◁ and ▷▶ buttons.
DISP press again for 2 sec.	Activates **screen brightness adjustment**. The brightness is adjusted by pressing the ◀◁ and ▷▶ buttons briefly.

Source select

CD / DVD	Selects the integral CD/DVD player as programme source.
TUNER	Selects the integral tuner as programme source.
AUX press repeatedly if necessary	Selects the inputs AUX-A, AUX-PH and AUX-AV in turn and selects these units as program source.
TV / STB press repeatedly if necessary	Switches to inputs TV and STB (= SET TOP BOX, SAT receiver), and selects these devices as program source.
TAPE press repeatedly if necessary	Switches to the inputs TAPE 1 (analogue recorder) and TAPE 2 (digital recorder), and selects these devices as program source.
VCR	Switches to the VCR input (video recorder) and selects this as program source.

Amplifier functions

VOL + VOL -	Adjusts volume in 1dB increments.
A / B short press	Switches the loudspeaker outputs in the sequence ◁ **A** - ◁ **B** - ◁ **A+B**.
A / B press for 2 sec.	Switches off the loudspeaker outputs ◁ **A** and ◁ **B** (mute function).

Surround functions (see chapter '*Surround sound - explanatory notes*')

SRND short press	Displays the active surround mode on the integral screen.
SRND press short repeatedly	Cycles the current music signal through the possible surround modes.
SRND press long repeatedly	Cycles the current music signal through the possible surround modes in reverse order.

Menu control system

A menu control system is used to adjust the tone controls and the surround decoder settings, and also to set the basic configuration of the **K6**.

If the TV set connected to the system is switched on, all the menus are displayed page by page on its screen. They are also displayed line by line (using English abbreviations) on the integral screen of the **K6**.

The **'Main Menu'** contains all the functions required to operate the **K6** in normal daily use. Press the (AMP) button briefly to open this menu.

When you initially install the **K6** all the audio and video components of your surround system must be set up to suit each other, and the system then has to be adjusted to suit the acoustic characteristics of your listening room. All these processes are carried out using the **'Configuration Menu'** which is opened by holding the (AMP) button pressed in for approx. 2 seconds (see **'Configuration Menu'**).
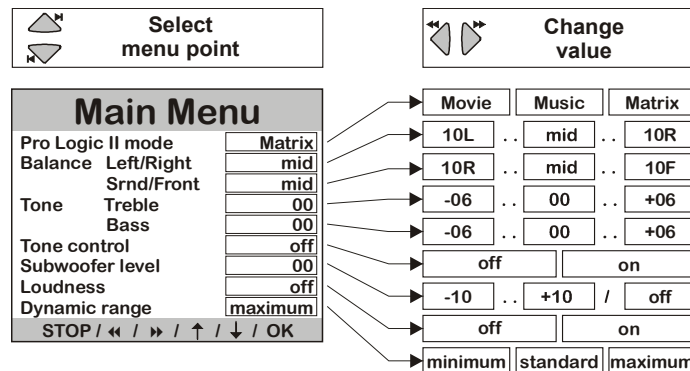
Main Menu

Operation:

(AMP) short press	**Open** Main Menu	e.g. *PP II MATRX*
△▷ ▽◁	Select menu point	
◀◁ / ▷▶	Change menu point	
(OK)	Activate selection	
or		
(STOP)	**Leave** Main Menu	

Explanation:

The **'Main Menu'** enables you to change settings of the **K6** which are occasionally required for daily listening. Press the (AMP) button briefly to open the **'Main Menu'**.

All changes take effect immediately.

If the TV set connected to the system is switched on, the menu appears on the TV screen. At the same time the integral screen displays the first menu point.

△▷ ▽◁	**Select menu point**	◀◁ ▷▶	**Change value**

Main Menu				
		Movie	Music	Matrix
Pro Logic II mode	Matrix			
Balance Left/Right	mid	10L	.. mid ..	10R
Srnd/Front	mid	10R	.. mid ..	10F
Tone Treble	00	-06	.. 00 ..	+06
Bass	00	-06	.. 00 ..	+06
Tone control	off	off		on
Subwoofer level	00	-10 .. +10	/	off
Loudness	off	off		on
Dynamic range	maximum	minimum	standard	maximum
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK				

ProLogic II mode:

This menu point enables you to set the Dolby ProLogic II decoder to suit varying programme material.

Movie   for films

Music   for music

Matrix   for mono programme material

Note
The unit stores the current **ProLogic II** mode for each source and sets this mode again, when the source is selected next time.

Balance left/right and surround/front:

These two menu points enable you to adjust the balance between the left/right and front/surround loudspeakers. Balance can be altered in 1 dB increments.

10L (left) . . . . . **10R** (right)

10R (surround) . . . . . **10F** (front)

Mitte (neutral setting)

Note
The purpose of this function is to compensate for a temporary problem, e.g. an unusual listening position, or a poorly produced recording. The basic settings for loudspeaker balance which apply to your listening situation should always be carried out in the **'Loudspeaker Balance Menu'**!

Tone controls - treble and bass:

These two menu points enable you to alter the treble and bass settings to compensate for tonal differences in programme material. The settings affect all channels, and the adjustment range is +/-6 dB in 1 dB increments.

Note

The basic settings for the tone controls should first be carried out in the *'Tone adjust Menu'*. The tone settings can be made separately for each channel, and compensate for permanently imperfect loudspeaker positioning and room influences.

Tone control on / off:

This menu point enables you switch the tone control on / off to toggle easily between Linear mode and Tone control mode.

Subwoofer level:

If you have switched on the subwoofer in the *'Loudspeaker Menu'*, you can adjust its volume here within the range -10 (dB) and + 10 (dB) in order to match the subwoofer to the acoustic conditions of your listening room and the volume of the other channels.

If the subwoofer is switched off in the *'Loudspeaker Menu'*, this menu point in the *'Main Menu'* is also set to $\boxed{\text{Off}}$, and the subwoofer level cannot be adjusted.

Note

It is essential to set the balance between the other channels (front, surround and center) in the *'Loudspeaker Balance Menu'* before you change this setting.

Loudness:

The term Loudness refers to an automatic volume-sensitive tone control designed to compensate for the frequency-dependent sensitivity of the human ear at very low volumes. You can switch Loudness on and off in this menu point.

$\boxed{\text{on}}$ Loudness switched on

$\boxed{\text{off}}$ Loudness switched off

Dynamic range:

Sound sources encoded using the **Dolby Digital process** may have a very wide dynamic range. This can be reduced in three stages to suit your circumstances, i.e. quiet passages are reproduced slightly louder at low volume, whereas loud passages are reduced in volume slightly. You can select any of the following dynamic ranges:

$\boxed{\text{minimum}}$ Greatly reduced dynamic range, e.g. for night-time listening.

$\boxed{\text{standard}}$ Standard dynamic range, medium compression.

$\boxed{\text{maximum}}$ Exploits maximum dynamic range provided by the sound source.

Surround sound - explanatory notes

General information

The following section is not concerned directly with the operation of your **K6**, but is rather intended to explain some of the terms which arise in connection with surround systems. It is intended to help you understand and exploit the facilities and capabilities of your **K6** to the full.

As we all know, a normal stereo recording has two channels - left and right. When stereo material is reproduced in your listening room, the entire sound event takes place on an imaginary stage which covers the space between the two loudspeakers.

The listener is able to locate specific sound events over the width of the stage; with good recordings there is also a slight impression of depth, i.e. behind the speakers. Nevertheless, normal stereophonic reproduction always leaves the listener isolated from the event.

As a result it is impossible to recreate the excitement of a live atmosphere, as in a real concert hall, since the acoustics of the concert hall are crucially influenced by sound reflections from the side and back walls, the floor, the ceiling, and from objects inside the hall.

The reflected sound comes from any number of directions - not just from the front. If a sound event is to be reproduced with real fidelity, it therefore follows that a proportion of the sound must emanate from all directions in the room, that the 'reflections' must be timed accurately, and that they must be generated at a realistic level.

Reproducing television sound via a conventional stereo system is problematic, because it is often impossible to locate dialogue on the screen itself.

A further point is that exotic sound effects have been in use in the cinema since the 1950's, using proper multi-channel sound systems. These effects are often crucial to the overall impact of a film, but they cannot be reproduced at home with a conventional stereo sound system.

Over the last few years surround technologies have been developed which make it possible to experience all these effects within the listener's own four walls, with the result that a far greater simulation of reality is possible than with conventional stereo.

For an effective surround system we always recommend the installation of a center loudspeaker, which is installed below or directly above the TV set. This loudspeaker helps greatly in locating particular sound events (especially dialogue) on the TV screen itself.

Types of reproduction

The **K6** makes available a range of different types of reproduction: **multi-channel mode, mono/stereo mode** and **sound fields.**

The surround receiver 'remembers' the setting for each input, and reverts to the mode of operation which was last used when you switch from one input to another.

Multi-channel mode (surround)

Mode of operation for the reproduction of multi-channel programmes (e.g. DOLBY Pro Logic, DOLBY DIGITAL, dts, etc.).

A **digital** multi-channel signal is detected by its encoding method, and the **K6** automatically sets the correct loudspeaker assignment. The current reproduction mode is displayed on the front panel screen.

For **analogue** input signals the correct mode of operation cannot be detected automatically by the decoder.

In this case the decoder always reverts to Dolby Pro Logic decoding. If the signal is actually in a different form (stereo, mono - see below), then the mode must be set manually instead of surround mode.
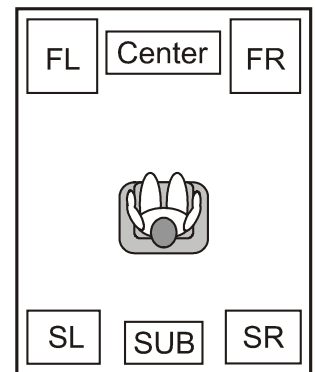
Dolby Pro Logic II Surround

In this process several independent signal channels are recorded using two channels and a special encoding process. Since this process only requires two recording channels, it is compatible with many picture / sound systems which are already widely in use (CD, video recorder, TV etc.).

The information is decoded at playback time and reproduced in the listening room via four (left, right, 2 x surround) loudspeakers, although five speakers (with an additional front center speaker) are preferable. Dolby Surround encoded material is currently available mainly in the film and video arena, recorded on video cassettes and DVDs, but many television programmes are now being produced and transmitted using Dolby Surround.

Dolby Digital

Dolby Digital is a digital multi-channel surround system which was developed specifically for spatial sound reproduction in connection with cinema films. The process utilises five separate sound channels: three front channels (left, center, right) and two surround channels. A sixth independent bass effect channel is also present, catering for low frequency effects (**LFE**). That is why such systems are said to offer **5.1** channels.

In comparison with Dolby Pro Logic, Dolby Digital provides two independent surround channels which provide genuine spatial stereo sound, offering the same realistic stereo reproduction as provided by the front channels.

The integral Dolby Digital decoder provides the means of obtaining a genuine digital Dolby stereo cinema presentation in your own living room. The discrete digital recording process and the five playback channels guarantee a very wide dynamic range and accurate spatial orientation.

The dynamic range is the difference in volume between the quietest and loudest passages of a recording. The original soundtrack of a film generally features an extremely wide dynamic range which the **K6** can reproduce in full.

Unfortunately not all listening rooms are suitable for exploiting the full dynamic range. For example, it may be necessary to take your neighbours' feelings into account - especially in the late evening hours.

For this reason it is possible to reduce the dynamic range of Dolby digital encoded sound sources in such a way that quiet passages (e.g. whispered conversations) are reproduced somewhat louder, while loud passages (e.g. gigantic explosions) are reduced in volume slightly (see *'Main Menu'*).

DIGITAL
dts
SURROUND **dts Digital Surround**

The **'dts'** multi-channel film sound system was originally developed to replace analogue film soundtracks, using digital soundtracks consisting of six discrete channels. This system has now been further developed to provide spatial sound reproduction in the home situation.

The six channels (**5.1**) are encoded / decoded in original quality, i.e. with 20-bit resolution, and recorded using only slight data compression. The 5.1 loudspeaker configuration, currently the standard arrangement for home cinema systems, is ideal for playback.

STEREO / MONO mode:

| Stereo | mode for **stereo** reproduction |

Note

In this mode a multi-channel signal is converted into a stereo signal (downmix), and reproduced via the main left and right loudspeakers.

| Mono | mode for **mono** reproduction
All channels are mixed down onto the Center loudspeaker ***)**. |

| Mono I | mode for **two-channel TV sound**
Generally **Channel I** transmits the synchronised sound. The signal from Channel I is reproduced via the Center loudspeaker ***)**; **Channel II** (original sound) is suppressed. |

| Mono II | mode for **two-channel TV sound**
Generally **Channel II** transmits the original sound. The signal from Channel II is reproduced via the Center loudspeaker ***)**; **Channel I** (original sound) is suppressed. |

Notes

*) If no Center speaker is present (see *'Loudspeaker Menu'*), the Center channel is mixed onto the left and right main speakers.

Not all signal sources (DVDs, CDs etc.) which are encoded with Dolby Digital or DTS Digital Surround contain the full 5.1 information. Even if the screen indicates that a channel is present, that does not necessarily mean that sound signals will constantly be produced from that loudspeaker.

In every mode of reproduction signals can be made available on the subwoofer channel, depending on the loudspeakers selected in the *'Loudspeaker Menu'*.

SOUND FIELD SIMULATION

The surround processes already described require programme material which is encoded using the appropriate system, but the **K6** also offers a facility to enhance the spatial effect available with conventional unencoded stereo recordings (CD, MC, VHF radio etc.). This it does by offering a range of artificial **sound field simulations**, including theatre, stadium, club etc. These sound fields are based on a precise analysis of the acoustics found in typical concert halls.

The digital signal processor of your **K6** is capable of simulating the spatial sound of these halls, and reproducing it via the five channels of your surround system. For example, if you select the **HALL** setting while watching a rock concert on television, you will have the illusion of sitting in the middle of the audience.

Note

The sound field simulation is not available for true multi-channel programs (DOLBY, dts)!

Your **K6** can generate the following sound fields:

Disco

This sound field is particularly suitable for providing an even spread of sound over a dance floor, using the front and surround loudspeakers. The sound signal is mixed and passed to the front and surround speakers without reflections and delays, and with equal power. The strongly concentrated sound reproduction generates an immediate, energy-charged atmosphere which is a great choice for any party.

Hall

A resonant concert hall with reflections from all directions. Ideal for reproducing a large orchestra, or the live atmosphere of a large rock concert hall - an excellent choice for highly dynamic rock music.

Theatre

This program combines the entire spectrum of clear voice reproduction with the full sound reproduction of an orchestra, without any unnatural echo. For better orientation the room sound is restricted slightly towards the rear.

Stadiun

Sound image with a narrow presence in the front region. Commentators and dialogues are localised on the screen. The rear resonance provides the impression of the public in the stadium. This sound field is also suitable for TV shows and music transmissions.

Club

The characteristic cellar jazz club atmosphere, with a pattern of sound reflection which is dominated by large floor and wall surfaces. Also good for simulating small halls.

Church

Simulation of the acoustic conditions of a large church with a long resonant period. This sound field is the perfect choice for sacred organ music.

Using the tuner

Listening to radio programmes

Operation:

TUNER	Switch on Tuner mode	*TUNER* Then e.g. *WDR 2*
◄▽	Switch to next-lower program	e.g. *NDR 1*
△►	Switch to next-higher program	e.g. *NDR 2*

0 to 9	**Optional**: enter the program number of the desired program	e.g. *BR 1*

Explanation:

Press the (TUNER) button on the RC handset to switch on the tuner; it will be set to the program which you last selected. The integral screen initially displays '*TUNER*', then the current radio program.

The integral screen now displays the RDS station name or the program number, together with the reception frequency.

Use the ◄▽ / △► buttons to switch to a different program ***)**; spot memories containing no program are automatically skipped. You can also call up a program by entering the desired program number directly using the numeric buttons.

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*) Note

You must first select all your preferred radio stations, tune them in accurately and store them under their own numbers before you can use this method to select radio programs. This process is described in *'Manual storing of radio programs'* and *'Automatic storing of radio programs'*.

Calling up additional tuner information

Operation:

With the tuner selected . . .

DISP press briefly	Brief display of program number and reception frequency	e.g. *P01 98-00*

▭	Switch radio text display on	*RADIOTEXT* or *RTEXT OFF*
	Switch radio text display off	

Explanation:

The integral screen can display three different types of information about the current radio station:

1. RDS station name   (standard display)
**2.** Program info(program number and reception frequency)
3. Radiotext

RDS station name

If the radio station broadcasts its RDS station name, the name is displayed on the integral screen.

Program info

The tuner screen can be switched temporarily to this display so that you can check the program number and the reception frequency of the current program. Press the (DISP) button briefly to do this.
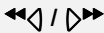
Radiotext

Press the (▭) button briefly to switch the Radiotext display for the current program on or off. The integral screen displays the message '*RADIOTEXT*' until a new message is displayed.

If the tuner cannot pick up Radiotext from the selected station, the integral screen waits one second before displaying the message '*NO RTEXT*'; it then reverts to displaying the current radio program. If you switch programs, the Radiotext display is automatically closed.

Program search

Operation:

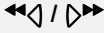| With Tuner selected . . .		
◀◀◁ / ▷▶▶ press for 2 sec	Start program search in appropriate direction (up or down)	e.g. **89-00**

Explanation:

If you hold one of the tuning buttons (◀◀◁ / ▷▶▶) pressed in **for about 2 seconds** when in Tuner mode, the **K6** starts a program search in the downward or upward direction. It stops automatically at the next high-quality station, and tunes it in accurately. If you release the tuning button at this moment, the tuner remains on this station. If you continue to hold it pressed in, the **K6** resumes the search after about 2 seconds.

The search can be stopped at any point by briefly pressing the **opposite** tuning button.

Briefly pressing any Program Select button activates the program you last selected.

Fine-tuning radio stations

Operation:

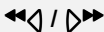| With Tuner selected . . .		
△▷ ◁▽	Call up the station which you wish to fine-tune	e.g. **P02 85-10**
0 to 9	**Optional:** enter the program to be tuned in directly	
◀◀◁ / ▷▶▶ press briefly	Fine-tune in direction of lower or higher frequency	e.g. **--+-- 89-00**

Explanation:

Under difficult reception conditions it may be necessary to carry out fine-tuning. With the fine-tune function you can adjust the tuning in 25 kHz increments, or slightly re-tune a station which you are picking up with interference. Press the ◀◀◁ or ▷▶▶ button briefly to do this.

The exact setting can be checked with the center display (**Tuning Indicator** adjacent to the frequency display). The station is correctly set and will be received at optimum quality when the cross symbol is in the center.

After carrying out fine-tuning the program must be stored again manually; see *'Manual storing of radio programs'.*

Setting the reception mode

Operation:

With Tuner selected . . .		
SRC press briefly	Call up Tuner Menu *)	e.g. **MODE NORM**
◀◀◁ / ▷▶▶	Select reception mode	**MODE NORM** or **MODE ATTEN** or **MODE MONO**
OK	Confirm selection and close **Tuner Menu**	e.g. **WDR 2**
or		
STOP	Leave **Tuner Menu** without changing reception mode	

*) The **Tuner Menu** is also displayed on the screen of a TV set connected to the system.

The following symbol combinations on the integral screen indicate the current reception mode:

◯◯	-	**Normal / Stereo**
◯◯	⌐	**Attenuator switched on**
-	-	**Mono reception**

Explanation:

The Tuner can be set to any of three different reception modes using the Tuner Menu.

The basic Tuner setting is **Normal / Stereo**. Under normal conditions this mode of reception produces outstanding sound quality.

If you have tuned to a transmitter which is close to an unusually powerful local station, you may suffer intermodulation effects (whistling and twittering sounds). In this case we recommend switching on the aerial attenuator (**Attenuator**).

If you have tuned to a very weak or very distant station which can only be picked up with serious hiss, we recommend that you switch to **MONO** mode as this markedly reduces background noise. The search threshold is automatically reduced if you select the **Mono** reception mode, and the automatic program search now stops at distant, weak and slightly noisy stations as well as powerful transmitters.

Manual storing of radio programs

Operation:

With Tuner selected . . .

Control	Action	Display
◄◄◁ / ◁►► press for 2 sec	Starts program search downwards or upwards within the frequency band	e.g. --+-- 98-00
SRC press briefly	Call up **Tuner Menu** *)	e.g. MODE NORM
◄▽	Call up **Program Menu** *)	PROGRAM
OK	Confirm selection	e.g. P01 98-00
◄◄◁ / ◁►►	Change Program Number if necessary	e.g. P02 98-00
0 to 9	**Optional:** enter Program Number directly	
OK	Store Program and close Tuner Menu	e.g. NDR 1

or

| STOP | Leave **Tuner Menu** without storing Program | |

*) The **Tuner Menu** and the **Program Menu** are also displayed on the screen of a TV set connected to the system (see illustrations on next page).

Explanation:

If you wish to operate the Tuner as described under *'Listening to radio programs'*, you must first tune in all your preferred radio stations accurately and store them under Program Numbers. You can store up to **60 radio stations** in this way.

In addition to the frequency the **K6** also stores the reception mode (see *'Setting the reception mode'*) and the RDS station name, provided that the name had been received in its complete form when the program was stored.

The Tuner Menu offers two facilities for storing programs:

1. Manual storing
2. Automatic storing (Autostore)

When **storing programs manually** you use the station search function initially to locate the desired radio station; if necessary waiting until the RDS station name appears in full on the screen.

The radio program can then be stored using the Program Menu; you can select any Program Number.

Automatic storing of radio programs (Autostore)

Operation:

With Tuner selected . . .

Control	Action	Display
SRC press briefly	Call up **Tuner Menu** *)	e.g. MODE NORM
◄▽	Call up **Program Menu** *)	PROGRAM
OK	Confirm selection	e.g. P01 90-60
◄▽	Call up **Autostore menu point**	e.g. P01 AUTO
◄◄◁ / ◁►►	Change initial Program Number if necessary	e.g. P01 90-60
0 to 9	**Optional:** enter Program Number directly	

then

| OK | Start Autostore and close **Tuner Menu** | e.g. --+-- 90-60 |

or

| STOP | Leave **Tuner Menu** without storing Program | |

*) The **Tuner Menu** and the **Program Menu** are also displayed on the screen of a TV set connected to the system (see illustrations on next page).

Explanation:

When you select **Autostore** function in the Tuner Menu the tuner automatically searches the entire VHF band for stations which can be received well in STEREO mode, and automatically stores the located stations. It carries out the process twice using different search thresholds.

The next step is to select a Program Number as starting point, i.e. the number from which the located programs are to be stored. If you wish to fill the program memory from the start, select the number 01.

At this point the **Autostore** function can still be interrupted by pressing the STOP button.

Pressing the OK button activates the **Autostore** function. The frequency display starts to increment (run upward).

This process may take a considerable time, as the tuner attempts to pick up the complete RDS station name for each transmitter it locates, and store the name at the same time. If necessary you can interrupt the **Autostore** process by pressing the ◄◄◁- or ◁►► button.

When the **Autostore** function is finished, the screen again displays the Program you last selected.

> **Note**
>
> The **K6** stores the radio stations in the order in which they are located by the **Autostore** function. You can subsequently re-arrange the sequence to suit your preference using the *'Exchanging Two Programs'* function.

Clearing (erasing) Programs

Operation:

With Tuner selected . . .		
SRC press briefly	Call up **Tuner Menu** *)	e.g. `MODE NORM`
☇	Call up **Program Menu** *)	`PROGRAM`
OK	Confirm selection	e.g. `P01 90-60`
☇	Press repeatedly until the display shown here appears on the screen	e.g. `P01 CLEAR`
◀◁ / ▷▶	Set the Program Number to be cleared	e.g. `P02 CLEAR`
0 to **9**	Optional: enter Program Number to be cleared directly	
then		
OK	Erase program (brief display)	`CLEARED`
	followed by	e.g. `P02 CLEAR`
and / or		
STOP	Leave **Tuner Menu** (without erasing program, if desired)	

*) The **Tuner Menu** and the **Program Menu** are also displayed on the screen of a TV set connected to the system (see illustrations on next page).

Explanation:

Programs containing stations received at poor quality, or the same stations on different frequencies, should be erased, or cleared.

To clear individual Programs call up the **Clear** function of the Tuner Menu. The flashing number is the Program Number to be cleared. You can either change it the ☇ / ☈ buttons, or enter the number directly using the numeric buttons.

Press the **OK** button to clear the Program. Press the **STOP** button to close the Tuner menu.
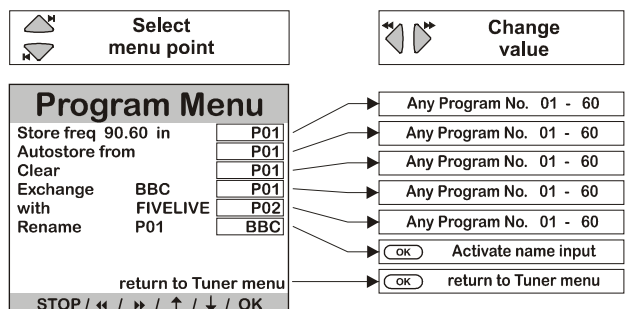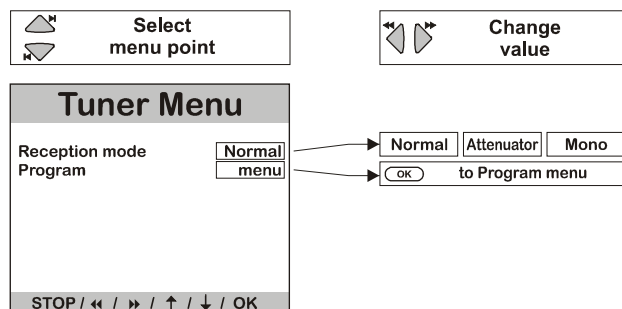

Notes

If you attempt to clear an invalid Program Number (XX) the screen will display an appropriate error message: `PXX ERROR`. The Tuner Menu then closes.

The tuner is unable to assess the quality at which individual stations are received, and for this reason the automatically stored Programs can also be adjusted manually. This also applies to transmitters whose full **RDS** station name was not picked up during the **Autostore** process, or which the station does not transmit in accordance with the **RDS** norm. To do this we recommend that you call up each Program and attempt to improve the reception quality by changing the reception mode (see *'Setting reception mode'*).
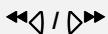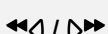
The Program can then be stored again manually; see '*Manual storing of radio programs*'. Programs containing poor-quality stations, or the same stations on different frequencies, should be cleared. If you carry out the **Autostore** process again, it ignores already stored frequencies. Under certain circumstances, e.g. when you move house, it may be necessary to clear all the Programs. This procedure is described in the section entitled '*Trouble-Shooting'*.

TV screen display of the Tuner Menu and Program Menu

△▽ Select menu point	◀◀ ▶▶ Change value

Tuner Menu

| Reception mode | Normal |
| Program | menu |

→ | Normal | Attenuator | Mono |
→ | **OK** to Program menu |

STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

△▽ Select menu point	◀◀ ▶▶ Change value

Program Menu

Store freq 90.60 in	P01
Autostore from	P01
Clear	P01
Exchange	BBC	P01
with	FIVELIVE	P02
Rename	P01	BBC

return to Tuner menu

STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

→ Any Program No. 01 - 60
→ Any Program No. 01 - 60
→ Any Program No. 01 - 60
→ Any Program No. 01 - 60
→ Any Program No. 01 - 60
→ **OK** Activate name input
→ **OK** return to Tuner menu

Exchanging two Programs

Operation:

With Tuner selected . . .

SRC press briefly	Call up **Tuner Menu** *)	e.g. *MODE NORM*
◄▽	Call up **Program Menu** *)	*PROGRAM*
OK	Confirm selection	e.g. *P07 105-60*
◄▽	Press repeatedly until the display shown here appears on the integral screen	e.g. *P07 EX P07*
◄◁ / ▷►	Set the first Program Number	e.g. *P01 EX P01*
0 to **9**	Optional: enter **first Program Number** directly	
◄▽	Continue by entering **second Program Number**	e.g. *P01 EX P01*
◄◁ / ▷►	Set the **second Program Number**	e.g. *P01 EX P05*
0 to **9**	Optional: enter **second Program Number** directly	

then

OK	Exchange programs (brief display)	*EXCHANGED*
	followed by	e.g. *P01 EX P01*

and / or

STOP	Leave **Tuner Menu** (without exchanging programs, if desired)	

*) The **Tuner Menu** and the **Program Menu** are also displayed on the screen of a TV set connected to the system (see illustrations on previous page).

Explanation:

All the Tuner's Programs are stored in the order in which the **Autostore** function detected them.

You can re-arrange the order to suit your preference using the **Exchange** function. The process involves exchanging pairs of Programs (Prog. X and Prog. Y).

Call up the function, then select the **Program Number** (Prog. X) to which you wish to assign a new program.

Now set the **Program Number** (Prog. Y) at which the program in question is currently stored.

In both cases you can set the Program Numbers using the ◄◁ / ▷► buttons, or enter them directly using the numeric buttons.

At this point you can still interrupt the **Exchange** function by pressing the **STOP** button.

The two Programs are exchanged when you press the **OK** button.

Press the **STOP** button to close the Tuner menu.

Note

When you enter the first Program Number (Prog. X) the **K6** always sets the second Program Number (Prog. Y) to the same number. This is intended to avoid you exchanging Programs accidentally.

Renaming a Program

Operation:

|		
With Tuner selected . . .		
SRC press briefly	Call up **Tuner Menu** *)	e.g. *MODE NORM*
⏮▽	Call up **Program Menu** *)	*PROGRAM*
OK	Confirm selection	e.g. *P01 105-60*
⏮▽	Press repeatedly until the display shown here appears on the integral screen	e.g. *RENAME P01*
◀◁ / ▷▶	Select the Program Number whose name is to be edited	e.g. *RENAME P05*
0 to 9	**Optional:** enter Program Number directly	
OK	**Activate** name input	e.g. *WDR 4*
◀◁ / ▷▶	Change **input position**	e.g. *_ WDR 4*
⤴ ⏮▽	Change the **letter** at the input position	e.g. *M WDR 4*

Repeat the last two steps until the desired name is displayed on the screen, then

|		
OK	Store name and close **Tuner Menu**	e.g. *MEINNAME*
or		
STOP	Leave **Tuner Menu** without storing the name	

*) The **Tuner Menu** and the **Program Menu** are also displayed on the screen of a TV set connected to the system (see illustrations on previous page).

Explanation:

Not all radio transmitters broadcast the station name, and in such cases the integral screen displays the tuning indicator and the reception frequency instead of the station name. Other transmitters broadcast the station name as a moving script, which is at variance with the RDS norm.

If you wish to display a 'program name' on the integral screen in such cases, you can use the **K6's Rename** function. This process enables you to assign any name to each Program Number.

First call up the **Rename** function, then use the ◀◁ / ▷▶ buttons or the numeric buttons to enter the Program Number whose name is to be entered or changed.

Press the **OK** button, and you are ready to edit the name.

You will see a flashing pointer, or cursor, on the integral screen and the screen of a TV set connected to the system. This cursor indicates the **input position**, and you can move it using the ◀◁ / ▷▶ buttons.

Use the ⏮▽ and ⤴ buttons to change the letters at the input position.

You can now enter the name of your choice, between one and eight **letters** in length. The new name is stored when you press the **OK** button.

Note

A name you choose yourself takes priority over the RDS station name which the radio transmitter broadcasts, i.e. it **not** over-written by the RDS name. If you wish to erase your selected name you must clear the Program Number and store the program again under the same Program Number.

The Tuner as alarm clock

Operation:

(TUNER)	Switch on Tuner mode	*TUNER* then e.g. *WDR 2*
(SRC) press for 2 sec.	Open **Alarm Menu**	*BY RDS ON*
⬍	Select menu point	
◀◀◁ / ▷▶▶	Change menu point	
(OK)	Activate selection	
or		
(STOP)	Close **Alarm Menu**	

Explanation:

The **K6** includes a timer module which can switch the unit on at a pre-set time. The '*Alarm Menu*' provides access to all the settings which are required for the alarm function.

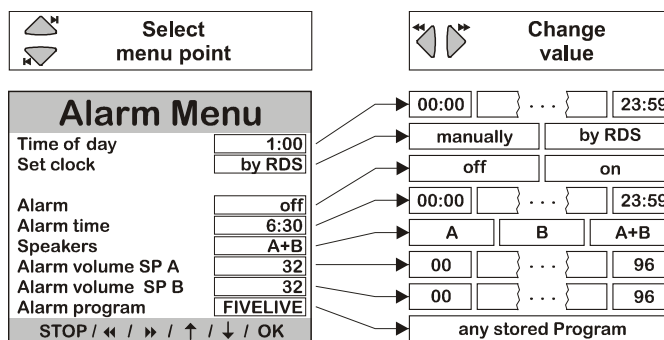The alarm function only works in Tuner mode. This is to ensure that a source signal is actually present when the unit is switched on by the timer!

Hold the (SRC) button pressed in until the '*Alarm Menu*' opens.

The menu appears on the TV set connected to the system; the integral screen shows the first menu point.

◁▷	Select menu point		◁ ▷	Change value

Alarm Menu

Time of day	1:00	→ 00:00 [ ] . . . [ ] 23:59
Set clock	by RDS	→ manually / by RDS
		→ off / on
Alarm	off	→ 00:00 [ ] . . . [ ] 23:59
Alarm time	6:30	→ A / B / A+B
Speakers	A+B	→ 00 [ ] . . . [ ] 96
Alarm volume SP A	32	→ 00 [ ] . . . [ ] 96
Alarm volume SP B	32	→ any stored Program
Alarm program	FIVELIVE	
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK		

Clock:

This function lets you set the internal clock manually to the correct time using the ◀◀◁ / ▷▶▶ buttons. At first the time changes slowly, but if you hold the button pressed in the rate of change increases.

Note
Setting the clock manually is only possible if you have selected [manual] in the *'Set clock'* menu point.

Setting the clock:

In this menu point you determine how the internal clock is to be set.

[manual] You can set the time of day manually in the *'Clock'* menu point

[by RDS] The time of day is read automatically from the RDS signal, and accepted by the **K6**; this only works if a high-quality RDS signal is present. If you pick this option you **cannot** change the time of day **manually**.

Alarm:

The alarm function can be switched on and off in this menu point.

[on] Alarm function switched on

[off] Alarm function switched off

Note
When the timer is switched on, the **Timer symbol** is displayed on the integral screen.

Alarm time:

This function lets you set the alarm time manually using the ◀◀◁ / ▷▶▶ buttons. At first the time changes slowly, but if you hold the button pressed in the rate of change increases.

Loudspeaker:

In this menu point you set which loudspeakers (◁ A / ◁ B) are active when the alarm is triggered.

[A] Loudspeakers **A** (in main room) switched on

[B] Loudspeakers **B** (in adjacent room) switched on

[A+B] Loudspeakers **A** and **B** switched on

Alarm volume ◁ A / ◁ B:

In this menu point you can adjust the alarm volume for speakers ◁ **A** (main room) and ◁ **B** (adjacent room) separately. However, this is only possible if you have already set the **Volume A/B** menu point to **split** in the '*Loudspeaker Menu'*. When you change the volume using the ◀◀◁ and ▷▶▶ buttons, the system immediately accepts the indicated level so that you can hear the new volume.

Program for alarm:

Selects the program which is to be selected when the alarm is triggered, using the ◀◀◁ / ▷▶▶ buttons.

The Disc Player

The integral Disc Player is a play-back device for digital audio and video media which comply with the universal DVD video standard. The player provides playback of movies at genuine cinema picture quality, and also offers stereo or multi-channel sound (according to medium).

All the unique features of DVD video, such as the choice of sound channel, choice of sub-title language plus different viewing angles (also depending on DVD type) are available.

You will soon discover that the disc player is amazingly simple to operate thanks to the **O**n-**S**creen **D**isplay function - i.e. on-screen menus - and the clearly legible integral screen.

In addition to DVDs you can also play audio CDs (including CD-R and CD/RW) and Photo CDs.

You can recognise the media which can be played by one or more of the following logos printed on the packaging.

The **K6** plays DVDs manufactured to the PAL and NTSC video norms, but your TV must support NTSC if such discs are to be played.
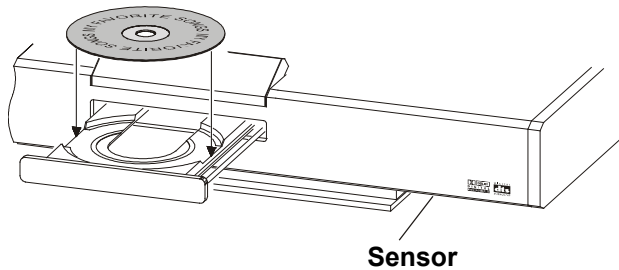
Using the Disc Player to play audio CDs

Inserting an audio CD

Operation:

(CD / DVD)	Select Disc mode	*DISC* then e.g. *NO DISC*
(STOP) press for 2 sec.	Open drawer	*OPEN*

Insert audio CD

Sensor

(OK)	Close drawer again and start playback	*CLOSING* then *READING* then e.g. *CD 16*

Explanation:

Audio CDs contain recordings of music, and they can be recognised by the logo shown here.

To select the Disc Player press the (CD/DVD) button on the RC handset.

Open the drawer by a long press on the (STOP) button *)** and insert a CD in the drawer **with the playable side facing down**. Check that it is **centrally located** in the appropriate recess in the drawer.

Close the drawer by pressing the (OK) button **)** briefly. Initially the **K6** gathers the information about the inserted CD (e.g. No. of tracks, track times etc.), then the CD starts playing.

---

*) Notes

The drawer can also be opened and closed by moving your hand close to the sensor under the front panel.

Calling up additional CD player information

Operation:

(CD / DVD)	Select Disc mode	*DISC* then e.g. *CD 16*
(DISP) press briefly	Switches integral screen display between track display and display of playing time	 *CD 16* *CD 3 - 15*

Explanation:

The screen **)** displays the passage of the CD in the machine which is currently being played. This information can be displayed in either of two different ways:

1. Track number   (number of current track)

2. Track time   (minutes and seconds of track currently playing)

To switch from one type of display to the other you must press the (DISP) button repeatedly.

The display type you select is retained until you press the (DISP) button briefly again, even if you insert a different CD or switch the machine off in the meantime.

*) If the TV set is switched on, the supplementary CD player information appears on the TV screen.

Playing a track

Operation:

Selecting a track

(CD / DVD)	Select Disc mode	*DISC* then e.g. *STOP 16*
(OK)	Start playback	e.g. *CD 1*
▽	Restart the current track, then play preceding tracks	e.g. *CD 1*
△	Play the next track	e.g. *CD 2*
(0) to (9)	**Optional**: enter the number of the desired track	e.g. *CD 7*

Search

▷▷	Search forward (press repeatedly if necessary)	
◁◁	Search back (press repeatedly if necessary)	
(OK)	End search, switch to play	

Pause function

(PAUSE)	Interrupt playback	*PAUSE*
(OK)	Resume playback	

End playback

(STOP)	End playback	*STOP 16*

Explanation:

Press the (OK) button to start CD playback from the first track.

Selecting a track

During playback you can jump from one track to another using the ▽ or △ buttons. However, you can also enter the number of the desired track directly using the numeric buttons.

Search

To search forward or back at higher speed press the ◁◁ or ▷▷ buttons during playback.

The search starts with reduced volume.

To switch to the next higher speed press the ◁◁ or ▷▷ button again. The search increases speed and the sound is muted.

The search rate and direction of searching are displayed constantly on the screen. Press one of the buttons (OK), (PAUSE), or (STOP) as desired to end the search.

Note

If the TV set is switched on, the search rate and direction are constantly displayed to the right of the top bar of the screen menu.

Interrupting playback

To interrupt playback press the (PAUSE) button; press the (OK) button to resume playback.

Ending playback

Press the (STOP) button at any time to end playback. Playback stops automatically after the last track of the CD.

Creating a playback program for a CD

The track select program enables you to re-arrange the playing sequence of the tracks of an audio CD. To do this you must switch to programming mode with a long press on the ⬭ OK button.

It is very easy to assemble the track select program with the help of the on-screen menu. Ensure that the TV set is switched on first.

Selecting tracks

Operation:

with CD inserted, but *stopped* . . .		
⬭ **OK** press for 2 sec.	Switch to **programming mode**	

Explanation:

You can program the desired tracks in the desired sequence under the point **'INPUT'**.

Note
The machine remembers the track select program you last created, and activates it automatically if the same CD is inserted again at a later date.

Playback variants (Repeat Track, Repeat Disc, Scan and Shuffle)

Operation:

With CD playing . . .		
(⟲ T/C) press repeatedly	Press repeatedly until the desired playback variant is displayed on the screen	
(OK)	Activate indicated play-back variant	

Explanation:

The **K6** offers several playback variants for the CD in the drive drawer. You can cycle through the variants on the integral screen by repeatedly pressing the (⟲ T/C) button. Press the (OK) button to select the displayed variant.

The following playback variants are available:

Integral-screen	Playback variant	OSD
NORM PLAY	Normal playback	
RPT TRACK	Repeat track	**repeat track**
RPT ALL	Repeat entire CD	**repeat disc**
SCAN	Sample all tracks	**scan**
SHUFFLE	Play tracks in random order	**shuffle**

Play A-B (Repeat passage)

Operation:

With CD playing . . .		
⟱/⟰ or ◀◁/▷▶	Search for start of desired passage	
(▷ ◁) press briefly	Set start marker	e.g. *A- 1*
⟱/⟰ or ◀◁/▷▶	If necessary search for the end of desired passage	
(▷ ◁) press briefly	Set end marker	e.g. *A-B 1*
(▷ ◁) press briefly	Interrupt play A-B and re-sume normal playback from current position	e.g. *A-B 1*
or		
(STOP)	End Play A-B and switch to Stop mode	e.g. *STOP 1*

Explanation:

In Play A-B mode you set two time markers on the **CD currently playing**. The passage between the two markers is then repeated constantly.

The first step is to locate the start point of the passage using the ⟱/⟰ or ◀◁/▷▶ buttons.

Set the start marker by briefly pressing the (▷ ◁) button. The screen shows '*A - '*.

Press the (▷ ◁) button again at the end of the passage. The screen shows '*A - B*'.

When you set the end marker the screen displays e.g. '*A-B 16*' and the passage between the two markers is constantly repeated.

You can interrupt the process at any time by pressing the (▷ ◁) button briefly. The CD then continues to play from the current position.

You can also stop the process by pressing the (STOP) button briefly; in this case the **K6** switches to Stop mode.

Using the Disc Player to play DVDs

Inserting a DVD

Operation:

(CD / DVD)	Select Disc mode	*DISC* then e.g. *NO DISC*
(STOP) press for 2 sec.	Open drawer	*OPEN*

Insert DVD

Sensor
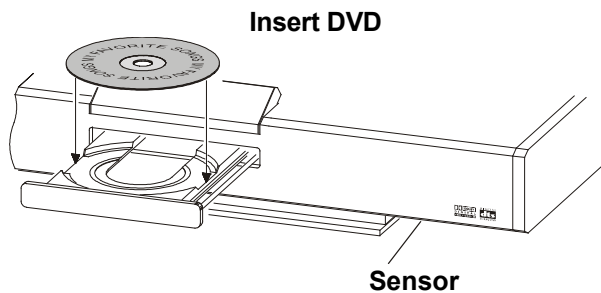
(OK)	Close drawer again and start playback	*CLOSING* then *READING* then *INFO*

Explanation:

You can recognise DVDs by the logo shown here. The DVD may contain one or more titles, and each title may contain one or more **chapters** (see illustration below); this depends on the type of material the DVD contains (films, video clips, TV series etc.).

The **K6** provides a simple, convenient means of accessing any titles or chapters.

To select the DVD player press the (CD / DVD) button briefly on the RC handset.

Open the drawer with a long press on the (STOP) button ***)** and insert a DVD in the drawer **with the playable side facing down**. Check that it is **centrally located** in the appropriate recess in the drawer.

Close the drawer by briefly pressing the (OK) button ***)**. The **K6** initially gathers information about the inserted DVD, then the DVD starts playing.

> ***) Notes**
>
> The drawer can also be opened and closed by moving your hand close to the sensor under the front panel.
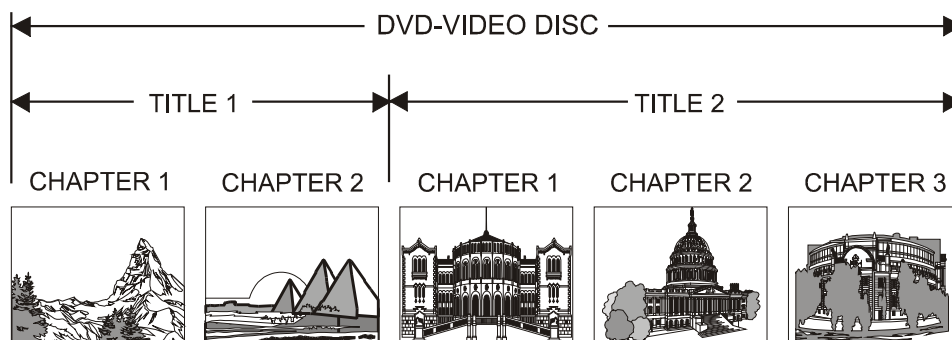
Important notes:

All the playing characteristics of the DVD are determined by the manufacturer of the disc. Different DVDs may exhibit marked differences from each other in terms of menu operation and playing behaviour (e.g. resume play, return to menu, end of play at end of title etc.).

For this reason these operating instructions can only describe the basic 'normal behaviour'.

If you encounter discs which do not comply with this description, please follow the on-screen operating notes provided by the DVD manufacturer.

Some DVDs feature a regional code implanted by the manufacturer, designed to limit the use of these discs to particular regions of the world. The **K6** plays all DVDs intended for the region the unit is intended for and all DVDs which feature no regional restriction.

If you insert a DVD in the disc drawer, and see a note on the screen informing you of an incorrect regional code, please contact your DVD supplier and exchange the DVD for a version approved for your region.

Calling up additional DVD player information

Operation:

With DVD playing . . .

DISP press briefly	Switches integral screen display	e.g. *DVD 1* or e.g. *DVD 0 - 10*

Explanation:

The integral screen shows which passage of the inserted DVD is currently being played. The information can be displayed in two different ways:

1. Title and Chapter number
2. Title time (display of minutes and seconds of the current title)

Press the **DISP** button repeatedly to switch from one type of display to the other.

The selected display mode is retained until you press the **DISP** button again, even if you insert another DVD or switch the **K6** off in the meantime.

Playing a title

Operation:

Selecting a title

(CD / DVD)	Select Disc mode	*DISC* then e.g. *DVD 10*
(OK)	Start playback	e.g. *DVD 1*

or

◁◁ △▷ ▷▷ ▽	Move to title which you would like to select	

or

(0) to (9)	Enter number of desired title directly	

Static and single pictures

(PAUSE)	Static picture (single picture)
(PAUSE)	Next single picture
(OK)	Resume playback

Ending playback

(STOP)	End playback Stop mode

Explanation:

Under normal circumstances playback starts automatically when you close the drawer.

Selecting a title

Some DVDs request you to select a particular menu point.

If the possible selection points are numbered, press the appropriate numeric button, or use the ▽, △, ◁◁, ▷▷ buttons to highlight the selected menu point. Press the (OK) button to make the selection.

During playback the screen displays either tracks and chapters, or the elapsed playing time.

Static and single pictures

To display a static picture during playback press the (PAUSE) button briefly. Press the (PAUSE) button again briefly to call up the next individual picture. To resume normal playback press the (OK) button.

Ending playback

To end playback press the (STOP) button at any time.

A select list appears when you stop playback, with the last played title rack highlighted. To restart this title press the (OK) button.

You can directly select a title other than the last one played by entering its number in the title select list using the numeric buttons ((0) . . . (9)).

Selecting a Chapter

Operation:

With DVD playing . . .		
▽	Play the current chapter again, then play preceding chapters	
△	Play the next chapter	
(0) to (9)	**Optional**: enter the desired Chapter Number	

Note

If the number is a multi-digit one, press the buttons quickly in sequence.

Explanation:

If a title on a DVD consists of several chapters, you can select another chapter using the ▽ / △ buttons as follows:

To select the next chapter press the △ button during playback. When you reach the last chapter of a title, the **K6** moves to the first chapter of the next title when you press the △ button briefly.

To return to the start of the current chapter, press the ▽ button during playback; press the ▽ button again to select the previous chapter.

You can also enter the number of the chapter you wish to play using the numeric buttons to select a chapter directly.

Search

Operation:

With DVD playing . . .	
▷▶▶	Search **forward** (press repeatedly if necessary)
◀◀◁	Search **back** (press repeatedly if necessary)

Optional: end search by pressing:

OK	Switch playback on
or	
PAUSE	Pause mode
or	
STOP	Stop mode

Explanation:

You can invoke a search using the ◀◀◁ / ▷▶▶ buttons as follows:

For a search forward or back at higher speed press the ◀◀◁ or ▷▶▶ button during playback.

The search starts, sound is muted and the corresponding symbol appears on the screen.

Press the ◀◀◁ or ▷▶▶ buttons again to switch to a higher speed.

The symbol for search speed and direction is displayed on the screen for 2 seconds every time you press the ◀◀◁ or ▷▶▶ button.

To end the search press one of the buttons OK, PAUSE or STOP as desired.

Slow motion

Operation:

With DVD playing . . .	
PAUSE press for 2 sec.	Switch on slow motion - for different playback speeds press repeatedly for about 2 seconds

Optional: end slow motion by pressing:

OK	Switch on playback
or	
PAUSE	Pause mode
or	
◀◀◁ ▷▶▶	Search
or	
STOP	Stop mode

Explanation:

Slow motion playback speeds can be selected.

To play at reduced speed hold the PAUSE button pressed for 2 seconds; the sound is muted.

To switch to the other speeds hold the PAUSE button pressed again for about 2 seconds.

The playback speed is indicated on the screen as long as slow motion is active.

To leave slow motion playback press one of the buttons OK, PAUSE, ◀◀◁, ▷▶▶ or STOP as desired.

Camera angle

Operation:

with the angle symbol superimposed . . .	
◯ **0** ◯ to ◯ **9** ◯	Enter the number of the desired camera angle
or	
(▷ ◻) press for 2 sec.	Call up the camera angle symbol on the screen
then	
(▷ ◻) press for 2 sec., or ↙ / ↗ or ◯ **0** ◯ to ◯ **9** ◯	Select next camera angle

Explanation:

If the DVD or VCD contains scenes which were recorded using different camera angles, the camera angle symbol appears on the screen.

The numbers above the symbol on the screen indicate the number of available camera angles together with the currently selected camera angle.

As long as this symbol **with alternative camera angles** appears on the screen, the camera angle can be selected by entering the number directly using the numeric buttons (◯ **0** ◯ . . . ◯ **9** ◯). The angle symbol then indicates the new camera angle.

If the angle symbol is not superimposed automatically by the DVD, the symbol can be brought up on the screen at any time by a **long press** (approx. 2 seconds) on the (▷ ◻) button. It stays on the screen for about five seconds, allowing you to select the camera angle.

Switching audio channels

Operation:

with the DVD playing . . .	
(▷ ◻) press briefly	Open the audio channel select option
then	
(▷ ◻) press briefly	Repeated short presses switch to the available audio channels

Explanation:

Generally speaking, the audio channel (e.g. Dolby Digital, DTS, MPEG, Stereo etc.) is selected within the Disc Menu when you start the DVD. Please follow the operating notes included in the menu.

However, the audio channel and synchronous speech can also be changed during playback if the DVD contains alternatives.

A **short press** on the (▷ ◻) button brings up the symbol on the screen for about five seconds. During this period each **short press** on the (▷ ◻) button selects the next available **audio channel**.

Note
Some DVDs do not allow you to switch audio channels during playback. In this case you must use the *'Disc Menu Function'* to select a different audio channel.

Sub-title language

Operation:

With DVD playing . . .	
(⊡)	Open the select sub-title option
then	
(⊡)	Repeated brief presses switch to the available sub-titles.

Explanation:

Generally speaking, the sub-title language is selected within the Disc menu when you start the DVD. Please follow the operating notes included in the menu.

However, the sub-title language can also be changed during playback if the DVD contains alternatives.

Press the (⊡)–button during playback - the sub-title select point is displayed for about five seconds. During this period each further **short press** of the (⊡) button selects the next available **sub-title language**.

Note
Some DVDs do not allow you to switch the sub-title language during playback. In this case you must use the *'Disc Menu Function'* to select a different sub-title language.

Playback variants (Repeat Chapter, Repeat Title, Repeat Disc and Shuffle)

Operation:

With DVD playing . . .	
(↺ T/C) press repeatedly if required	Press repeatedly until the desired playback variant appears on the screen.
(OK)	Activate displayed play-back variant

Explanation:

The **K6** offers several playback variants for the DVD currently in the drive drawer. During playback you can cycle through the variants on the integral screen by repeatedly pressing the (↺ T/C) button. Press the (OK) button to select the displayed variant.
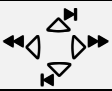
The following playback variants are available:

Integral screen	Playback variant
NORM PLAY	Normal playback
RPT CHAPTR	Repeat chapter
RPT TITLE	Repeat title
RPT ALL	Repeat entire DVD
SHUFFLE	Play titles in random order

Disc Menu Function

Operation:

With DVD playing or stopped . . .		
SRC press briefly	Call up **Disc Menu**	
◀◀ △◀ ▷▶ ◁ ▽	**Move to menu point** which you wish to select	
or		
0 to **9**	**Optional**: enter the desired menu point directly	
then		
OK	Activate menu point	
or		
SRC press briefly	Leave **Disc Menu**	

Alternative operation:

OK press for 2 sec.	Call up manual menu control system	*NAV*

then

operate the Disc Menu as described above.

then

OK press for 2 sec.	Terminate manual menu control system	

Explanation:

A DVD may contain Disc Menus which enable you to select individual **titles** and / or **chapters**. The menu may also offer alternative camera viewing angles, synchronous languages, sub-titles etc., depending on the DVD.

The Disc Menu Function of the DVD player enables you to select options from the Disc Menu. The first step is to press the blue **SRC** button briefly.

If the DVD contains a Select Menu, this will now appear on the screen.

Use the numeric buttons (**0** . . . **9**) or the cursor buttons ▽, △◀, ◀◀, ▷▶ to highlight your selection, then press the **OK** [**ENTER**] button.

Press the blue **SRC** button again briefly to leave the Select Menu.

> **Note**
>
> The *'Disc Menu Function'* can be accessed at any time - even during playback - so that you can change settings. Pressing the **SRC** button to close the *'Disc Menu Function'* takes you back to the film.

Explanation:

Some manufacturers plough their own furrow with Disc Menus, i.e. their discs refuse to be operated in the usual manner. These menus can be recognised by the fact that „INFO" does not appear on the integral screen. They may also relate to auxiliary functions such as games, for which the alternative menu control system must be used.

For such cases a long press on the **OK** button selects a manual menu control system which enables you to control even this type of DVD. After using the menu control system, this mode must be terminated again by a further long press (approx. 2 seconds) on the **OK** button, or by pressing the **STOP** button.

> **Note**
>
> During **manual menu control mode**, the △◀, ◀◀, ▷▶ and ▽ buttons serve only to operate menu control functions. The fast forward / rewind and track / chapter skip functions are not available in this mode.

Player Setup

SRC press for 2 sec.	Open menu	
△◁ ▽	Select menu point	
◁◁ / ▷▷	Change menu point	
OK	Activate selection	
or		
STOP	Leave menu	

Explanation:

The purpose of the *'Player Setup Menu'* is to enable you to adjust the basic settings of the integral Disc Player to suit your personal preference.

Note
The **K6** has to accept any changes which you make to the basic settings, and for this reason the DVD stops when you leave the *'Player Setup Menu'*. You then need to re-start playback.

△◁ ▽	**Select menu point**	◁◁ ▷▷	**Change value**

Player Setup

Audio language	english	→	english	deutsch	other languages	
Subtitle language	english	→	english	deutsch	other languages	
Aspect ratio	Letterbox 4:3	→	Letterbox 4:3	16:9	Pan Scan 4:3	
Autoplay	on	→	off	on		

STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK
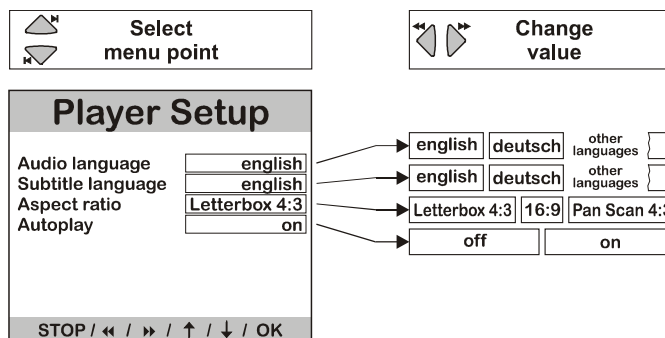
Audio language:

The sound is reproduced in your chosen language, provided that it is available on the DVD in the disc drawer. If not, speech reproduction switches to the first available synchronous language on the DVD.

Subtitle:

The sub-titles are displayed in your chosen language, provided that it is available on the DVD in the disc drawer. If not, the sub-title display switches to the first available language on the DVD.

Aspect ratio:
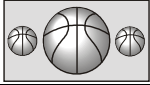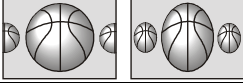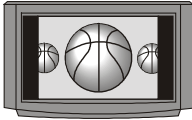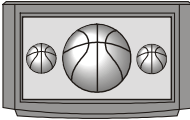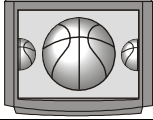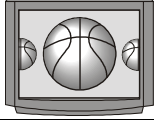
Default setting: **16:9** (wide-screen). If you have a conventional TV set (**4:3**) you can select either of the following settings:

- **Letterbox**, giving a *wide screen* view with black bars at top and bottom of the screen (**recommended setting**)
- Or **Pan-Scan**, giving full screen height but with the left and right edges of the picture cut off.

If a DVD contains picture data in Pan-Scan format, the picture will move horizontally across the screen in order to keep the focal point of the action visible on the screen at all times.

PBC:

This determines whether or not a VCD is to start automatically when inserted.

Optimum formats on each screen		
	Video format	**Film format**
Original material		
Material on Disc		
		Pan-Scan or distorted (anamorphic)
TV picture 16 : 9		
TV picture 4 : 3		
	Normal	**Pan-Scan**
		Letterbox

Using the Disc Player to play other media

Video-CDs (VCD) can be recognised by the logo shown here. The VCD may contain one or more tracks, and each track may contain one or more chapters; this depends on the type of material the DVD contains (films, video clips, TV series etc.). For historical reasons a title on the VCD is known as a **track** and a chapter as an **index**.

In general terms video CDs are controlled in a similar way to DVDs, but they do not offer a convenient disc menu for selecting tracks and indexes.

This means that the only buttons you are offered are those which control the drive mechanism, like a CD:

With VCD playing . . .

OK	Start playback
⏭ / ⏮	Play the next track / index Play the current track / index again
◀◀ / ▷▶	Search backwards / forwards
PAUSE	Pause mode
STOP	Stop mode

The pictures on a **Photo CD** are usually organised into **albums**. An album may consist of several **chapters** which are sub-divided into **pages**. Any one page may contain individual **pictures** for you to select.

When a Photo CD is inserted, it starts automatically and displays the album on the screen.

With Photo CD playing . . .
The album is displayed . . .

OK	Display first chapter of
⏭ / ⏮ ◀◀ / ▷▶	Select the chapter / picture
0 bis 9	**Optional**: enter directly using the numeric buttons.
SRC	Return to album

The picture is displayed . . .

⏭ / ⏮	Picture mirror
◀◀ / ▷▶	Picture rotation
SRC	Return to chapter page

Playing MP3 CDs

An MP3 CD can hold up to 32 album directories.

To select an album directory press the ◀◀ / ▶▶ buttons on the front panel (◀◀ / ▷▶ buttons on the remote control handset).

To select a title / track in an album directory, press the ⏮ / ⏭ buttons on the front panel (⏭ / ⏮ buttons on the remote control handset).

The desired album / track number can also be entered directly using the numeric buttons on the remote control handset.

- In Stop mode the numbers are used to select an album.
- In Play mode the numbers are used to select music tracks.

Note:

It may take more than 10 seconds for the machine to read the contents of an MP3 CD since one disc can contain a large number of collections of music tracks.

Only the first „session" of a multi-session disc is supported.

The following formats are supported:

- CDs to ISO 9660 format
- max. 30 characters
- max. file cascading: 8 levels
- max. ALB number 32
- supports VBR bit rate
- supported sampling frequencies for MP3 CD: 32 kHz, 44.1 kHz, 48 kHz
- supported bit rates for MP3 CD: 32, 64, 96, 128, 192, 256, 320 (kbps)

The following formats are **not** supported:

- Files such as *.WMA, *.AAC, *.DLF, *.M3U, *.PLS
- File names including Chinese characters
- Discs on which the recording session was not closed (Non Session Closed)
- Discs which were recorded using the UDF format
- Files which contain ID3V2 tags

Basic settings for the K6

Operation:

AMP press for 2 sec.	Open **Configuration Menu**		e.g. *M-OSD ON*
⏭⏮	Select menu point		
◀◀◁ / ▷▶▶	Change menu point		
OK	Activate selected point		

or

STOP	Leave **Configuration Menu**		

Explanation:

The *'Configuration Menu'* provides the means for you to set up and adjust all the audio and video components of your surround system so that they match each other perfectly, and also match the acoustic qualities of your listening room.

The matching process only needs to be carried out when you first install the system, or if you add or replace individual system components. The diagram below shows the overall menu structure.

> **Note**
>
> You must also configure your TV set correctly before you can operate the **K6** to its full potential.
>
> If the menus shown here are not displayed on the screen of your TV set, then your first step must be to set the video norm of the **K6** and the TV to match each other.
>
> This procedure is described in the sections *'Adjustments at the TV Set'*, *'Video Norm Menu'* and *'Trouble-Shooting'*.

Configuration

On-screen main menu	on
On-screen menu TVB	off
On-screen language	english
Setup assistent	start
Loudspeaker	menu
Volume A/B	linked
Video norm	menu
Inputs	menu

STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

Assistant

Main speaker	full range
Center speaker	satellite
Rear speaker	satellite
Subwoofer	on
Satellite high pass	80 Hz
Auto-setup	start

return to Configuration menu
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

Auto-setup

Spkr.	Level	Bass	Treble	Dist.
FL	00	00	00	0.00 m
Center	off			
FR	00	00	00	0.00 m
SR	00	00	00	0.00 m
SL	00	00	00	0.00 m

return to Assistant menu
STOP / OK

Loudspeaker

Main speaker	full range
Center speaker	satellite
Rear speaker	satellite
Subwoofer	on
Spk position	menu
Spk balance	menu
Tone adjust	menu
Volume A/B	split

return to Configuration menu
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

Spk position

FL	Center	FR
2.40 m	2.10 m	2.40 m
SL		SR
1.80 m	SUB	1.80 m
	2.40 m	

return to Loudspeaker menu
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

Video norm

TV out	RGB/Video

return to Configuration menu
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

Spk balance

FL	Center	FR
00 dB	00 dB	00 dB
SL		SR
00 dB		00 dB

return to Loudspeaker menu
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

Inputs

dig. Input	Source
DIG opt.	STB
DIG koax.	AUX-AV

For ext. analogue inputs only:

Calibration	start

return to Configuration menu
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

Tone adjust

FL	Center	FR
TRB 00	TRB 00	TRB 00
BAS 00	BAS 00	BAS 00
SL		SR
TRB 00		TRB 00
BAS 00		BAS 00

return to Loudspeaker menu
STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK

Configuration Menu

Select menu point			Change value	

Configuration

On-screen main menu	on	→	on	off
On-screen menu TVB	off	→	on	off
On-screen language	english	→	english	deutsch	other languages
Setup assistent	start	→	OK	starts Setup assistant
Loudspeaker	menu	→	OK	to Loudspeaker menu
Volume A/B	linked	→	linked	split
Video norm	menu	→	OK	to Video norm menu
Inputs	menu	→	OK	to Inputs menu

STOP / ◄◄ / ►► / ↑ / ↓ / OK

Switch TV output for On-Screen main menu on / off:

If you just wish to adjust the balance or tone controls temporarily, it is not essential to access the main menu (see *'Main Menu'* **menu control system**) on the TV screen, as this would superimpose it on the film you are watching. In most cases displaying the menu on the integral screen is perfectly adequate. This menu point enables you to switch the TV screen display of the Main Menu on and off.

Switch on-screen menu for VCR/TV B on / off:

A video recorder (VCR) or a TV set (e.g. in an adjacent room – room B) can be connected to the **VCR / TV B** SCART output. If you use this output for a VCR, any superimposed menus would be recorded along with the programme material, so as standard the on-screen menus are switched off for this output. However, if you connect a TV set to this output you will want to see the on-screen menus, and this menu point enables you to switch them on.

On-Screen Language:

The on-screen menus can be displayed on the screen in various languages. In this menu point you select the language you wish to see.

Setup assistant:

The *'Setup assistant'* menu point represents an alternative to the manual *'Loudspeaker Menu'* (see below). Calling up the Assistant invokes an automated routine for correctly setting up the individual loudspeaker channels of your surround system.

Loudspeaker:

The purpose of the *'Loudspeaker Menu'* is to control the distribution of the output signals to the loudspeaker system in your room. This menu is also used to adjust the loudspeakers to suit the spatial and acoustic characteristics of your listening room.

Volume A/B:

This menu point allows you to decide whether the volume controls for ◁ **A** and ◁ **B** are to work separately or linked together (see *'Adjacent Room Operation'*). Select one of the following settings:

split   if you wish to have independent control of the volume of ◁ **A** and ◁ **B** (**A/B**).

linked   if you prefer to control the volume of ◁ **A** and ◁ **B** (**A+B**) together.

Video norm:

The *'Video Norm Menu'* enables you to set all the video inputs and outputs of the **K6** to the appropriate video norm to suit the picture sources connected to it.

The *'Video Norm Menu'* also allows you to adjust the **K6** to suit the characteristics of your TV set.

Inputs:

Some AV source devices supply a digital output signal. Alternative input sockets on the **K6** can be assigned to these source devices; these inputs are designed specifically for digital signals (coaxial or optical).

If you do this, the assigned digital signal is accepted and processed by the decoder instead of the analogue stereo input signal.

The alternative inputs are assigned in the *'Inputs Menu'*.

Assistant Menu

The purpose of the **T+A** Setup Assistant is to help you set up your surround system correctly. If you follow the steps described below, the **K6** will automatically calibrate your loudspeakers with the help of the measurement microphone supplied, and under normal listening room conditions this procedure will deliver optimum results from your system.

If the automatic calibration system is to work properly the following conditions must be satisfied: the measurement microphone must be set up with free space all round it,

close to your preferred listening position (e.g. on the living room table, or on the arm of an armchair). There must be straight-line visual contact between the microphone and each loudspeaker.

First connect the supplied microphone to the headphone socket on the right-hand side of the **K6**, below the front panel. Set a normal listening volume.

Call up the Setup Assistant and the menu shown below appears.

⬦ Select menu point		◁ ▷ Change value	

Assistant

Main speaker	full range	satellite	full range	
Center speaker	satellite	none	satellite	full range
Rear speaker	satellite	none	satellite	full range
Subwoofer	on	off	on	
Satellite high pass	80 Hz	50	60	. . .
Auto-setup	start	OK starts Auto-setup		
return to Configuration menu		OK return to Configuration menu		
STOP / ◁◁ / ▷▷ / ↑ / ↓ / OK				
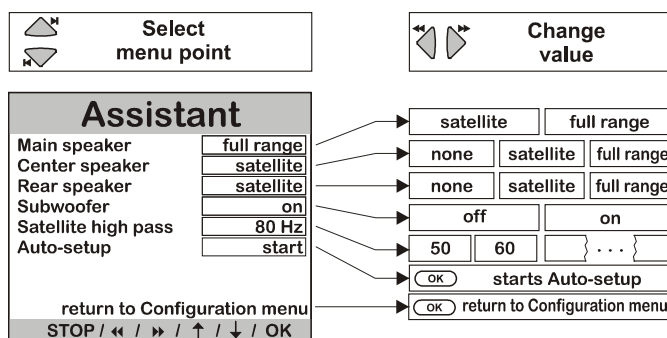
Main speaker:
Center speaker:
Rear speaker:
Subwoofer:
Satellite high pass:

The first step is to enter the size of your loudspeakers in the right-hand column of the menu (see *'Loudspeaker Menu'*), and state whether your system includes a subwoofer or not.

Auto-setup:

Now move to the *'Auto-setup'* menu point and press the OK button to activate the menu point.

To ensure that the calibration process can be carried out correctly it is essential to set the volume to the optimum level beforehand. To help set the correct level the **K6** generates a hissing signal on the front left channel. In the 'Volume' line on the screen you will see the currently set volume, following by a flashing indicator informing you which button to press. **'VOL+'** means that the volume is too low. **'VOL-'** means that it is too high. The calibration process is initiated by pressing the OK button, but this will not work until you see '**OK**' on the screen.

The **K6** will now carry out the automatic calibration process. During this period you will hear various test signals from your loudspeakers. The results could be falsified if any loud noises occur during the duration of the calibration process, so take care to keep the room quiet.

The on-screen *'Auto-setup'* display on your TV set keeps you constantly informed about the settings it has established. In the ⬚Level⬚ column you will see the set corrections (volume compensation), while the ⬚Dist.⬚ column lists the measured loudspeaker distances.

Auto-Setup

Volume				40 VOL+
Spk.	Lev	Bass	Treb	Dist.
FL	00	00	00	2.40 m
Center	off			
FR	00	00	00	2.40 m
SR	00	00	00	3.00 m
SL	00	00	00	3.00 m
return to Assistant menu				
STOP / OK				

Typical display of measured values
produced by the Auto-setup menu

Notes

If the calibration process was spoiled by extraneous sounds, or if implausible results are generated for whatever reason, you can re-start the calibration process at any time.

The distances established by the Assistant are calculated on the basis of acoustic reflection times. They may vary slightly from the true geometric distances due to signal delays in your loudspeakers.

If the automatic calibration process supplies invalid results due to difficult acoustic conditions in your listening room, we recommend that you should first try varying the microphone position and / or the volume setting in an attempt to obtain a valid result.

If this does not bring about an improvement, making automatic calibration impossible, you can still carry out the loudspeaker set-up procedure manually via the *'Loudspeaker Menu'*.

Loudspeaker Menu

The purpose of the *'Loudspeaker Menu'* is to distribute the output signals correctly to the loudspeakers which are present in your system.

This process generally only needs to be carried out when you first install the system, if you add or replace individual loudspeakers, or if there are changes to the acoustic conditions in your listening room (e.g. new furniture, carpets, curtains etc.).

Not all the possible loudspeakers (center, surround and subwoofer) are present in every system, and to ensure that no sound information is lost in such cases the absent components must be marked as ⟨none⟩ in the *'Loudspeaker Menu'*.

The Position, Balance and Tone adjust menu points also enable you to set up the loudspeakers accurately to suit the spatial and acoustic characteristics of your listening room.
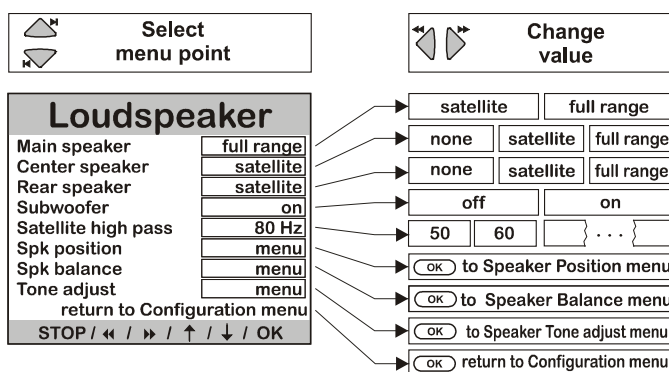
Main speaker:

Set the size and bass capability of the main loudspeakers at front left and front right. Select one of the following settings: *)

⟨satellite⟩   for small speakers whose bass response is necessarily limited. The low-frequency bass signals (below 80 Hz) of the main channels are mixed onto the subwoofer, if present.

⟨full range⟩   for larger speakers. The full frequency range is reproduced via the main channels without restriction.

Center speaker:

Set the size and bass capability of the center loudspeaker. Select one of the following settings: *)

⟨none⟩   if no center speaker is present. The center channel is mixed onto the left and right main loudspeakers.

⟨satellite⟩   for small speakers whose bass response is necessarily limited. The low-frequency bass signals (below 80 Hz) of the center channel are mixed onto the main loudspeakers and, if present the subwoofer.

⟨full range⟩   if the center speaker is approximately the same size as the main speakers. The full frequency range is reproduced via the main channels without restriction.

> **Note**
>
> If your system does not include a center speaker, the main speakers should not be set up too far away from the TV set, and should be positioned symmetrically either side of it. This is essential, otherwise dialogue will not appear to be centred on the screen.

Rear speaker:

Set the size and bass capability of the surround loud-speakers. Select one of the following settings: ***)**

| none | if your system does not include surround speakers. The surround channels are mixed onto the left and right main loudspeakers.

Note

Genuine surround sound is not possible without surround loudspeakers!

| satellite | for small surround speakers. The low-frequency bass signals (below 80 Hz) of the surround channels are mixed onto the main speakers and the subwoofer, if present.

| full range | if the bass response of the surround speakers is very good. The full frequency range is reproduced via the surround channels without restriction.

*) Note

To avoid meaningless settings, the menu does not allow you to set all possible combinations (**Main Speaker**, **Center Speaker** and **Rear Speaker**). The list below shows the **standard combinations**, but they can still be modified individually.

| Standard combinations |

1. Main, Center and Rear Speaker:.. **satellite**
   Subwoofer: .... **on**

2. Main Speaker:............................ **full range**
   Center and Rear Speaker: .... **satellite**
   Subwoofer: .... **off**

3. Main and Rear Speaker: .... **full range**
   Center:....................................... **ful range**
   .... or **satellite**
   Subwoofer: .... **on**

Subwoofer:

In this menu point you can set whether your loudspeaker system includes a subwoofer. Select one the following settings:

| on | if a subwoofer is present. The signals from the bass effect channel (**LFE**), and all the other low-frequency bass signals (below 80 Hz) which are below the range of normal full-range loudspeakers, are passed to the subwoofer channel.

| off | if your system does not include a subwoofer. The signals of the bass effect channel (**LFE**) and all the other low-frequency bass signals (below 80 Hz) are mixed onto the main loud-speakers.

Note

If you switch on the subwoofer in the **'Loudspeaker Menu'**, you can adjust its level in the **'Main Menu'** within the range -10(dB) and +10(dB), so that its volume matches that of the other channels.

Satellite high pass:

In this menu point you can set the cross-over frequency according to the requirements of your loudspeaker system.

| 50 | 60 | 70 | 80 | 90 | 100 | 120 | 150 | 180 | if a subwoofer is present. The signals from the bass effect channel (**LFE**), and all the other low-frequency bass signals below the chosen frequency of all loudspeakers with a size that is set to 'satellite', are passed to the sub-woofer channel.

| off | if your system does not include a subwoofer. The signals of the bass effect channel (**LFE**) and all the other low-frequency bass signals of all loudspeakers with a size that is set to 'sat-ellite' are mixed onto the main loudspeakers.

Note

For appropriate frequency setting please consult the user manual of your loudspeakers. The default value of this setting is 90 Hz.

If you switch on the subwoofer in the **'Loudspeaker Menu'**, you can adjust its level in the **'Main Menu'** within the range -10(dB) and +10(dB), so that its volume matches that of the other channels.

Spk position:

Activating this menu point takes you into a menu in which you can inform the **K6** of the position of the loud-speakers, i.e. you can enter the distance from the listen-ing position for each loudspeaker individually. This en-ables the system to compensate for delays due to une-qual distances from the listening position (see **'Loud-speaker Position Menu'**).

Spk balance:

This menu point leads you to a menu where you can set the balance between all the loudspeakers (see **'Loud-speaker Balance Menu'**).

Tone adjust:

This menu point takes you to a menu where you can set the tonal balance between the loudspeakers (see **'Tone mdjust Menu'**).

Loudspeaker Position Menu

In the **'Loudspeaker Position Menu'** you can enter the correct distance to the listening position for each loudspeaker separately (in 0.3 m increments).

This enables the system to compensate for delays due to unequal distances from the listening position.

△▽ (Select)	Select menu point

◁▷ (Change)	Change value

Spk position

FL 2.40 m	Center 2.10 m	FR 2.40 m
SL 1.80 m		SR 1.80 m
	SUB 2.40 m	

return to Loudspeaker menu
STOP / ◄◄ / ►► / ↑ / ↓ / OK

→ 0.00 . 0.3m increments . 12.00
→ 0.00 . 0.3m increments . 12.00
→ 0.00 . 0.3m increments . 12.00
→ 0.00 . 0.3m increments . 12.00
→ 0.00 . 0.3m increments . 12.00
→ 0.00 . 0.3m increments . 12.00
→ (OK) return to Loudspeaker menu
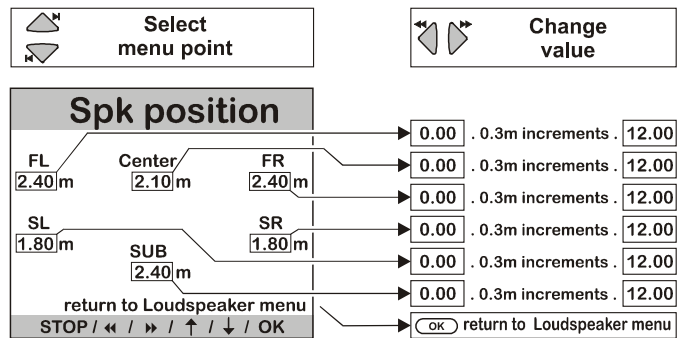
Measure the distance between the listening position and the loudspeakers which are present.
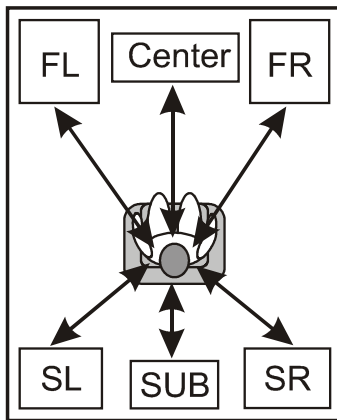
Enter the measured distances.

As can be seen in the diagram, the select buttons access the input positions in the following fixed sequence.

Output channels which are not in use (see **'Loudspeaker Menu'**) cannot be edited.

- Main loudspeaker, front left.................................. (**FL**)
- Center loudspeaker, front center .... (**Center**)
- Main loudspeaker, front right .... (**FR**)
- Surround loudspeaker, rear right .... (**SR**)
- Surround loudspeaker, rear left .... (**SL**)
- Active subwoofer (any position)....................... (**SUB**)

Enter the measured distances using the change buttons; the increment is 0.3 m.

> **Note**
>
> The maximum distance for any one loudspeaker to the listening position is 12 m. Greater distances than this cannot be recommended for acoustic reasons, and the system is not designed to compensate for such long delays.

Basic settings   38

Loudspeaker Balance Menu

If the DVD surround receiver is to supply a balanced sound image, it is important to adjust the volume of the individual channels carefully to each other.

The *'Loudspeaker Balance Menu'* is designed to set the exact levels of all channels.

△ ▽	**Select menu point**	
◁ ▷	**Change value**	

Spk balance

FL `00` dB   Center `00` dB   FR `00` dB

SL `00` dB   SR `00` dB

return to Loudspeaker menu
STOP / ◂◂ / ▸▸ / ↑ / ↓ / OK

-20(dB) . . `00(dB)` . . +10(dB)
-20(dB) . . `00(dB)` . . +10(dB)
-20(dB) . . `00(dB)` . . +10(dB)
-20(dB) . . `00(dB)` . . +10(dB)
-20(dB) . . `00(dB)` . . +10(dB)

(OK) return to Loudspeaker menu
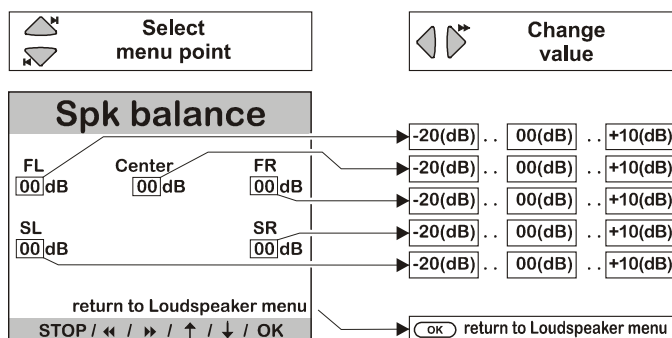
When you initially activate the *'Loudspeaker Balance Menu'* you will hear a two-second burst of hissing sound from the left main loudspeaker. You will find the corresponding input position after the first menu point.

'FL: `00` '.

As the diagram shows, the hiss then passes to the next speaker in the fixed order, and lasts two seconds in each case:

- Main loudspeaker, front left .... (**FL**)
- Center loudspeaker, front center .... (**Center**)
- Main loudspeaker, front right .... (**FR**)
- Surround loudspeaker, rear right .... (**SR**)
- Surround loudspeaker, rear left .... (**SL**)

The system skips any output channels which are not in use (see **'Loudspeaker Menu'**).

The menu indicates the corresponding input when the hiss sounds from each channel in turn. The value can be adjusted using the change buttons within the range `-20` to `+10`. Any change takes effect immediately.

The hiss continues to sound from the same channel for a further two seconds after you have corrected the volume before moving on to the next channel. The input position then changes with it.

You can also use the select buttons to select the channel to be corrected directly, instead of relying on the automatic cyclic switching system.

Set all the channels to give as close an impression of equal volume as possible.

Notes

The hissing sound is not suitable for assessing the volume of the bass channel, so the level of the subwoofer channel is adjusted separately in the *'Subwoofer Level'* menu point within the *'Main Menu'*.

The **K6** stores the set levels for each channel and applies them for surround reproduction. They are used for all surround modes.

Tone adjust Menu

The **K6** DVD surround receiver features an active (+/- 6dB) tone adjust system. This is designed to compensate for room influences or unfavourable loudspeaker positions on the quality of reproduction.

Tone values can be adjusted separately for all the output channels used by your system, and the system is therefore capable of compensating fully for the effects of different speaker locations.

⬘⬗	**Select** **menu point**	

◄◄ ►►	**Change** **value**	

Tone adjust

FL	Center	FR
TRB 00	TRB 00	TRB 00
BAS 00	BAS 00	BAS 00

SL		SR
TRB 00		TRB 00
BAS 00		BAS 00

return to Loudspeaker menu

STOP / ◄◄ / ►► / ↑ / ↓ / OK

-06(dB) . . 00(dB) . . +06(dB)
-06(dB) . . 00(dB) . . +06(dB)
-06(dB) . . 00(dB) . . +06(dB)
-06(dB) . . 00(dB) . . +06(dB)
-06(dB) . . 00(dB) . . +06(dB)

(ok) return to Loudspeaker menu
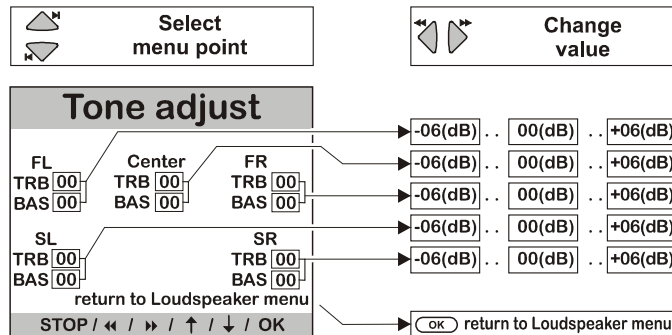
The first step is to select the sound source which you wish to use for adjusting the tone controls. This source should be active on all channels, so that the sound image is as realistic as possible, and any change in tone settings is immediately audible.

When you initially activate this menu point you will find the input position after the first menu point.

'FL TRB: 00 '.

You can now use the change buttons to alter the value within the range -06 to +06. Any change you make is immediately audible.

Use the select buttons to choose the input position you wish to adjust.

As can be seen in the diagram, the select buttons access the input positions in the following fixed sequence.

Output channels which are not in use (see *'Loudspeaker Menu'*) cannot be edited.

- Main loudspeaker front left   (FL)   Treble (**TRB**)
- Main loudspeaker front left   (FL)   Bass (**BAS**)
- Center loudspeaker front   (Center) Treble (**TRB**)
- Center loudspeaker front   (Center) Bass (**BAS**)
- Main loudspeaker front right   (FR)   Treble (**TRB**)
- Main loudspeaker front right   (FR)   Bass (**BAS**)
- Surround loudspeaker rear right (SR)   Treble (**TRB**)
- Surround loudspeaker rear right (SR)   Bass (**BAS**)
- Surround loudspeaker rear left (SR)   Treble (**TRB**)
- Surround loudspeaker rear left (SR)   Bass (**BAS**)

Set the values for treble (**TRB**) and bass (**BAS**) for all the channels with the aim of producing a well balanced sound image.

Note

After changing the tone adjust settings we recommend that you call up the *'Loudspeaker Balance Menu'* again in order to check once more the balance between all the channels; correct them where necessary.

Video Norm Menu

In the world of video a whole series of different video norms has become established. The most important are **Standard Video** (also known as FBAS, CVBS or Composite), **S-Video** (also known as Y/C or S-VHS), and **RGB** (Red/Green/Blue component video). The **K6** supports all three of these video norms.

To ensure that you obtain first-class picture quality it is essential to set the same video norm for the TV set, the **K6** and any source devices (SAT receiver etc.) connected to it. Some TV sets also support the combined use of several norms (e.g. RGB and CVBS or S-Video and CVBS).

To avoid compatibility problems, and to ensure that all source devices and on-screen menus are displayed correctly on your TV screen, we recommend that you use one of the following configurations.

1. Standard Video Configuration

This configuration is supported by practically all AV devices, and represents the simplest solution (see table for settings).

2. S-Video (Y/C) and Standard Video (CVBS)

This configuration requires a TV set with automatic S-Video / CVBS switching. Source devices which support S-Video should be set to S-Video, and any other source devices to CVBS. In this case the integral DVD player and the S-Video source devices automatically use the S-Video norm, with its inherently higher quality.

3. RGB and Standard Video (CVBS)

This configuration provides the highest quality of all, but does require a TV set with automatic RGB / CVBS switching (RGB priority switching - **T+A** TV sets include this facility). RGB-capable source devices are switched to RGB mode, and any other source devices to CVBS. In this case the integral DVD player and the RGB source devices automatically use the RGB norm, with its inherently high quality.

Var.	TV set	K6	external source device
1	Standard-Video	RGB/Video	CVBS
2	Automatic S-Video/CVBS-Switching	S-Video	S-Video (Y/C) or CVBS
3	Automatic RGB/CVBS-switching	RGB/Video	RGB Or CVBS

◁◺ᴺ / ◿▽	Select menu point		◀◁ / ▷▶	Change value

Video norm

TV out   RGB/Video → RGB / Video   S-Video

return to Configuration menu → (OK) return to Configuration menu

STOP / ◀◀ / ▶▶ / ↑ / ↓ / OK
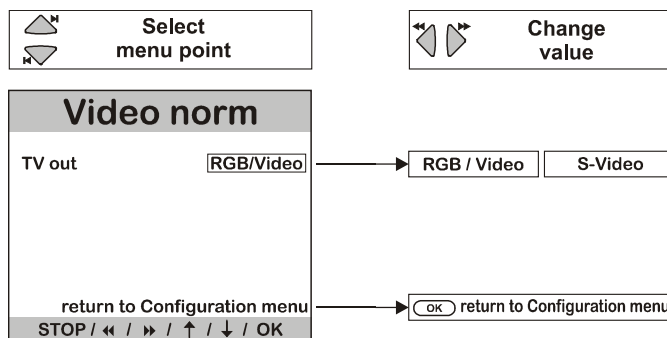
TV out:

RGB / Video   For TV sets with RGB or Video socket

S-Video   For TV sets with S-Video socket

Notes

Some AV source devices generate a signal at this SCART output which switches the TV set connected to them from television reception to SCART picture and sound mode, and in some cases also changes the video format (4:3 / 16:9). TV sets vary in the way they exploit this signal, and you will need to consult your TV operating instructions.

In **RGB/Video** mode the signal produced by the source device is passed on unchanged to the **TV** socket of the DVD surround receiver.

In **S-Video** mode the **K6** always passes the switching signal to the **TV** socket of the DVD surround receiver.

If you encounter compatibility problems between the TV sets and AV source devices connected to the **K6**, we always recommend that you use the standard video norm for all devices, since all video equipment supports this mode; see also **'Trouble-Shooting'**.

Inputs Menu

Four **AV source devices** (providing picture and analogue sound signals) can be connected to the DVD surround receiver; alternative input sockets can be assigned to these source devices on the **K6**; these inputs (co-axial or optical) are suitable for digital signals.

If the **K6** is set up in this way the signal from the digital source device is accepted and processed instead of the analogue stereo input signal.

The alternative inputs are assigned in the *'Inputs Menu'*.

| △△◣ ▽ | Select menu point | | ◂◂ ▷ ▷▷ | Change value |

```
            Inputs
dig. Input              Source

DIG opt.                   STB      →    --- TV VCR/TVB STB AUX-AV
DIG koax.                AUX-AV     →    --- TV VCR/TVB STB AUX-AV

For ext. analogue inputs only:
Calibration               start     →    ( OK )      starts Calibration

         return to Configuration menu →  ( OK ) return to Configuration menu
  STOP / ◂◂ / ▷▷ / ↑ / ↓ / OK
```
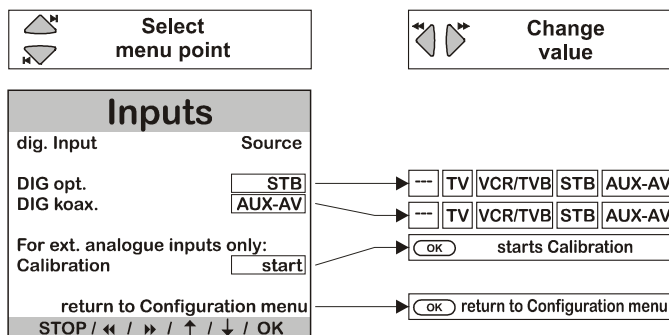
Digital inputs

The on-screen menu lists the digital inputs of the **K6** on the left - **DIG opt.** and **DIG coax**.

Each digital input can be assigned to one of the following AV inputs:

| --- | | TV | | VCR/TVB | | STB | | AUX-AV |

| --- | ➢ | no assignment |
| STB | ➢ | set-top box |

Calibration:

When an external source device providing an analogue sound signal is connected to the **K6**, the best possible reproduction quality can only be obtained if the analogue / digital converter of the **K6** is matched accurately to the output level of the source device.

The **K6** features an automatic calibration function to carry out this process. This is the calibration procedure:

1. Select the desired analogue **audio or AV source device** and play a fortissimo (extremely loud) passage of music.

2. Call up the *'Inputs Menu'*, move to **Calibration start** and press the (OK) button.

3. The screen displays the **active** message as long as the calibration process continues.

Notes

The automatic calibration function can be used for **all external analogue audio and AV source devices (TAPE 1, AUX 1, AUX 2 / PHONO, STB, TV, VCR / TVB** and **AUX / AV),** provided that you have not assigned a digital input to that socket. We recommend that you carry out the procedure for all devices connected to these inputs.

The integral tuner is already calibrated correctly; the **K6** therefore does not allow you to calibrate this source device.

If, in spite of calibration, a source device shows signs of overloading (distortion), you will see the following message displayed briefly on the integral screen:

'OVERLOAD '.

If this happens, the analogue/digital converter needs to be re-calibrated to suit the source device in question.

Installation
Using the system for the first time
Safety notes

This section describes all those matters which are of fundamental importance when setting up and first using the equipment. This information is not relevant in daily use, but you should nevertheless read and note it before using the equipment for the first time.

Approved usage

This device is designed exclusively for reproducing sound and/or pictures in the domestic environment. It must be operated in a dry indoor room which meets all the recommendations stated in these instructions.

Where the equipment is to be used for other purposes, especially in the medical field or for any purpose where safety is an issue, it is essential to establish the unit's suitability for this application with the manufacturer, and to obtain prior written approval for such usage.

T+A equipment which includes a radio or television receiving section must be operated within the regulations laid down by the Post Office and the Telecommunications authorities in the country in which it is used. This unit may only be used to receive or reproduce those transmissions which are intended for public consumption.

The reception or reproduction of other transmissions (e.g. police radio or mobile radio broadcasts) is prohibited.

This device fulfils the currently valid European norms and German technical regulations, and carries the C€ symbol as proof of this. Please check that this sticker is in place.

The C€ sticker is your guarantee that the device meets in full the specification applicable to it in terms of electromagnetic radiation. This means that your device will not interfere with, nor be interfered by, other receiving equipment.

If, in spite of these measures, you encounter reception interference when using your equipment, please contact your local branch of the German Federal Office for Post and Telecommunications (or the equivalent in your country) in the first instance.

The only permissible method of disposing of this product is to take it to your local collection centre for electrical waste.

General notes on setting up the K6:

Carefully unpack the **K6** and store the original packing materials carefully. The carton and packing are specially designed for this unit and will be needed again if you wish to move the equipment at any time. Please be sure to read the safety notes in these instructions.

If the unit gets very cold (e.g. when being transported), condensation may form inside it. Please do not switch it on until it has had plenty of time to warm up to room temperature, so that any condensation evaporates completely.

Before placing the unit on a sensitive surface, please check the compatibility of the lacquer and the unit's feet at a non-visible point.

The **K6** should be set up on a rigid, level base. If you are placing the unit on resonance absorbers or de-coupling components make sure that they do not compromise its stability.

The unit should be set up in a dry, well-ventilated site, out of direct sunlight and away from radiators. It must not be located close to heat-producing objects or devices, or anything which is heat-sensitive or highly inflammable.

⚠	**Any heat build-up will shorten the life of the unit and could be a source of danger.**

When installing the unit on a shelf or in a cupboard it is essential to provide an adequate flow of cooling air, to ensure that the heat produced by the unit is dissipated effectively. For this reason there must be at least 10 cm free space to both sides, behind and above the case.

The unit must be set up in such a way that none of the connections can be touched - especially by children. Please be sure to read and observe the notes and information contained in the section *'Setting up, using the K6 for the first time'.*

FC Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE
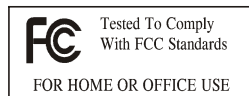
FCC Information to the user

(for use in the United States of America only)

Class B digital device – instructions:

Note: 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 form that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notes on wiring the system:

Be sure to push all plugs firmly into their sockets. Loose connections can cause hum and other unwanted noises.

Before wiring up the system remove the back panel, which is simply clipped in place.

Deploy all mains cables, loudspeaker cables and remote control cables as far as possible from low-level cables (inter-connects) and aerial cables. Never route them over or under the receiver. Mains cables must be deployed in such a way that there is no risk of people tripping over them, or of furniture causing damage. Particular care is required with connectors, distribution panels and the unit's sockets and other connectors.

Please connect the unit to a correctly earthed mains socket using the mains cable supplied.

When wiring is complete. fit the back panel in the original position again.

If you encounter problems when setting up and using the **K6** for the first time, please remember that the cause is often simple, and equally simple to eliminate. Please refer to the section of these instructions entitled **'Trouble-shooting'**.

Swivel back panel out

Raise back panel vertically

Locating pin

Swivel back panel in

Locating pin

Push back panel down vertically
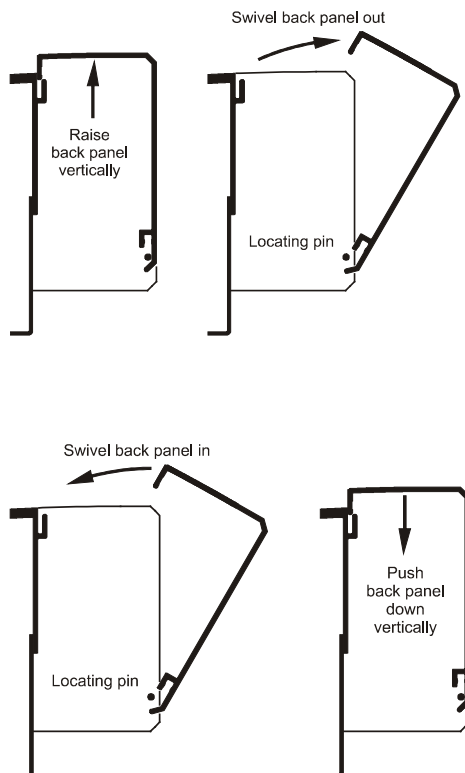
Safety notes

Please read right through these operating instructions carefully before you attempt to use your new equipment. Note in particular the information regarding setting up and operating the unit, and the safety notes.

The power supply required for this machine is printed on the mains supply socket. The unit must never be connected to a power supply which does not meet this specification. If the **K6** is not to be used for a long period, disconnect it from the mains supply at the wall socket.

Liquid or foreign bodies must never be allowed inside the case. Mains voltage is present inside the unit, and there is a risk of lethal electric shock. Do not exert undue force on the mains connectors.

Protect the unit from drips and splashes of water; never place flower vases or fluid containers on the unit.

This device should never be used without proper supervision. The **K6** should be set up well out of the reach of small children. This applies to all electrical equipment.

The unit should only ever be opened by a qualified specialist technician. Repairs and fuse replacements should be entrusted to an authorised **T·A** specialist workshop. With the exception of the connections and procedures described in these instructions, no work of any kind may be carried out on the **K6** by unqualified persons.

If the unit is damaged, or if you suspect that it is not functioning correctly, immediately disconnect the mains plug at the wall socket, and ask an authorised **T·A** specialist workshop to check it.

The unit may be damaged by excess voltage in the power supply, the cable network or in aerial systems, as may occur during thunderstorms (lightning strikes) or due to static discharges. Special power supply units and excess voltage protectors such as the **T·A** **'Power Bar'** mains distribution panel offer some degree of protection from damage to equipment due to the hazards described above.

However, if you require absolute security from damage due to excess voltage, the only solution is to disconnect the unit from the mains power supply and any aerial systems. If you believe there is a danger of excess voltage (e.g. when an electrical storm is building up) disconnect the **K6** from the mains and the aerial socket.

All mains power supply and aerial systems to which the unit is connected must meet the currently valid regulations, and must be installed by an approved electrical installer.

Rear panel connections
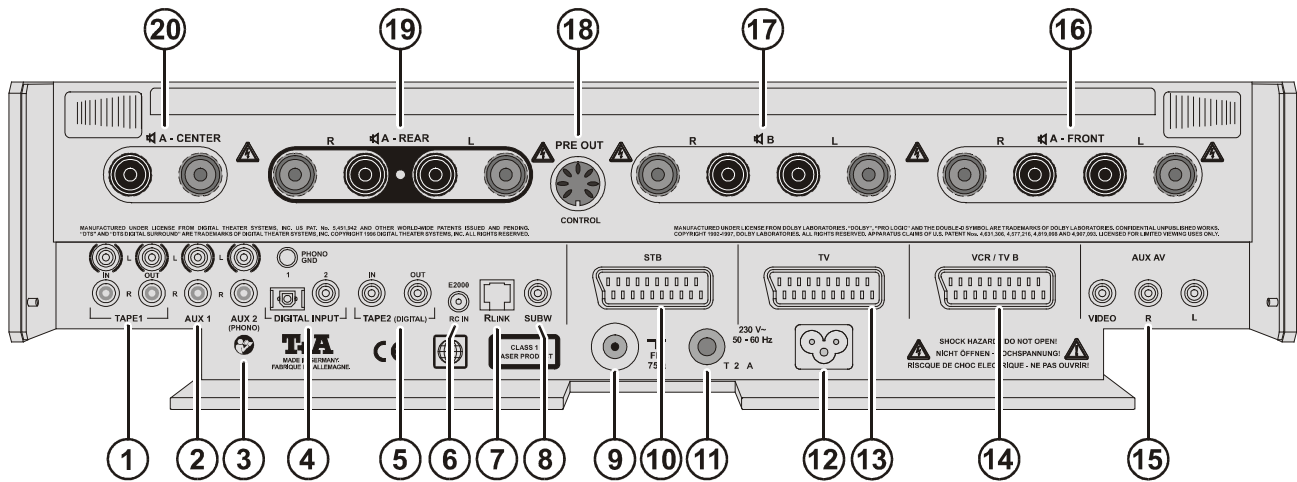
① TAPE 1   (CINCH)

Input / output sockets to connect an analogue recorder (tape, cassette etc.).

② AUX 1   (CINCH)

Universal analogue stereo sound input.

③ AUX 2 (PHONO)   (CINCH)

Universal analogue stereo sound input. This input can be upgraded to a Phono input by installing a **T+A** Phono MM or Phono MC module.

④ DIGITAL INPUT (OPTISCH and COAXIAL)

Inputs for digital source devices. Both inputs can be assigned to the AV inputs (VCR / TV B, SET-TOP BOX, TV or AUX AV) (see **'Inputs Menu'**).

⑤ TAPE 2 (DIGITAL)   (CINCH)

Input / output sockets for connecting a digital recorder (MD, DAT, CD recorder etc.).

⑥ RC IN (E2000)

Input socket for the **T+A E 2000** remote control receiver (optional accessory) for use in an adjacent room.

⑦ RLINK

Control output socket for connecting **T+A** devices with the **RLINK** control system.

⑧ SUBWOOFER OUTPUT   (CINCH)

Output for connecting an active subwoofer.

⑨ FM ANT - aerial input

The **K6** features a 75 Ohm **VHF** aerial input (domestic aerial or cable).

⑩ STB   (SCART [1])

Socket for connecting a set-top box (SAT or cable receiver) with SCART connection [1].

⑪ MAINS FUSE

It is essential to use a replacement fuse rated exactly as printed on the case.

⑫ MAINS INPUT

The mains cable is connected to this socket. When connecting the unit to the mains it is essential to read and observe the notes in the sections *'Setting up, using the K6 for the first time'* and *'Safety Notes'*.

⑬ TV   (SCART [1])

Input / output socket for connecting a TV set with SCART connector.

⑭ VCR / TV B   (SCART [1])

Socket for connecting a video recorder.
Alternatively: connection for a TV set in an **adjacent room**.

⑮ AUX AV   (STEREO CINCH and VIDEO)

Input for connecting an additional AV source device.

---

[1] Note

If your AV device does not feature a SCART socket, use a SCART adaptor cable connected to the VIDEO (Cinch) or S-VIDEO (Hosiden) input / output socket of your AV device. Ask your specialist **T+A** dealer for advice if you are not sure.

---

⑯ 🔊 A - FRONT

Terminals for front loudspeakers [2]

⑰ 🔊 B

Terminals for loudspeakers in adjacent room [2]

⑱ PRE OUT (CONTROL)

Connection for **T+A** active loudspeakers, to be used as front speakers in the main listening room.

Note

This socket also supplies a switching signal which can be used to activate other devices (e.g. projectors, projection screens etc.) automatically via the **K6** (see *'Appendix B'*).

---

⑲ 🔊 A - REAR

Terminals for surround loudspeakers [2]

⑳ 🔊 A - CENTER

Terminals for center loudspeaker [2]

Note:

If the loudspeakers are to be used in countries outside the EU the red/black stoppers can be removed from the loudspeaker terminals. The speakers can then be connected using banana plugs.

The stoppers are simply a push-fit in the terminals, and can be prised out from the rear using a suitable tool such as a knife blade.

---

[2] Notes

The impedance of the loudspeakers connected to the **K6** should not be less than 4 Ω (DIN rating).

It is essential to check that the screw terminals are firmly tightened, and that there are no stray strands of cable which could cause a short-circuit.

The terminals also feature cross-holes into which standard insulated 'banana plugs' (4mm) can be fitted from the underside.

The **T+A** accessory range includes a selection of high-quality cables which are an exact match to **T+A** equipment.

Typical wiring diagram: Standard arrangement (main room)

Use of banana plugs: see the section entitled '*Rear panel connections*'.

TV 920

SCART KABEL
SCART CABLE
CÂBLE SCART

EURO 1

EURO 2

EURO 3

75 Ohm

DC 12..19V
400mA

Audio

230V 50/60Hz   Service

FRONT RECHTS
FRONT RIGHT
AVANT DROITE

FRONT LINKS
FRONT LEFT
AVANT GAUCHE

CENTER / CENTRE

K6

CENTER

A · REAR

PRE OUT

B

A · FRONT

CONTROL

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PHONO
GND

IN   OUT

TAPE1   AUX 1   AUX 2
(PHONO)

DIGITAL IN

IN   OUT

TAPE2 (DIGITAL)

RC   RLINK   S

CLASS
LASER PRODUCT

STB

TV

VCR / TV B

AUX AV

230 V~
50 · 60 Hz

FM
75Ω

T 2 A

VIDEO   R   L

SHOCK HAZARD · DO NOT OPEN!
NICHT ÖFFNEN · HOCHSPANNUNG!
RISCQUE DE CHOC ELECTRIQUE · NE PAS OUVRIR!

MADE IN GER
FABRIQUE EN AL

UKW-ANTENNE
FM AERIAL
F.M. ANTENNE

CINCH AUDIO KABEL
COAXIAL AUDIO CABLE
CÂBLE COAX AUDIO

AKTIVER SUBWOOFER
ACTIVE SUBWOOFER
BOUMEUR ACTIF

SURROUND REAR RECHTS
SURROUND REAR RIGHT
SURROUND ARRIÈR DROITE

SURROUND REAR LINKS
SURROUND REAR LEFT
SURROUND ARRIÈR GAUCHE

Typical wiring diagram: Connecting active loudspeakers

TV 920

SCART KABEL
SCART CABLE
CÂBLE SCART

EURO 1

EURO 2

EURO 3

75 Ohm

DC 12..19V
400mA

Audio

230V 50/60Hz   Service

AKTIVLAUTSPRECHER FRONT RECHTS
ACTIVE SPEAKER FRONT RIGHT
HAUTE-PARLEUR ACTIF AVANT DROITE

AKTIVLAUTSPRECHER FRONT LINKS
ACTIVE SPEAKER FRONT LEFT
HAUTE-PARLEUR ACTIF AVANT GAUCHE

CENTER / CENTRE

K6

CENTER   R   A - REAR   L   PR OUT   R   B   L   R   A - FRONT   L

CONTROL

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IN   OUT   L   L   L   PHONO   IN   OUT   E200...   STB   TV   VCR / TV B   AUX AV
R   R   R   GND   1

TAPE1   AUX 1   AUX 2   DIGITAL IN   TAPE2 (DIGITAL)   RC   RLINK   S...W   VIDEO   R   L
(PHONO)

230 V~
50 - 60 Hz

FM
75Ω   T 2 A

SHOCK HAZARD - DO NOT OPEN!
NICHT ÖFFNEN - HOCHSPANNUNG!
RISCQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR!

MADE IN GER...
FABRIQUE EN AL...GNE.

CLASS
LASER PR...CT

UKW-ANTENNE
FM AERIAL
F.M. ANTENNE

CINCH AUDIO KABEL
COAXIAL AUDIO CABLE
CÂBLE COAX AUDIO

AKTIVER SUBWOOFER
ACTIVE SUBWOOFER
SUBWOOFER ACTIF

SURROUND REAR RECHTS
SURROUND REAR RIGHT
SURROUND ARRIÈR DROITE

SURROUND REAR LINKS
SURROUND REAR LEFT
SURROUND ARRIÈR GAUCHE

Adjustments at the TV set

Your TV set must be correctly configured in order to operate correctly with the **K6**. The necessary settings are as follows:

Selecting the AV input

You must select an AV input on your TV set which supports the video norm you have set on the **K6**. Some 16:9 TV sets use a switching signal (pin 8 of the SCART socket) to switch the video format. Use the SCART socket on the TV set which supports this switching function, and set the TV set appropriately ***)**.

Decoder mode

Your TV set must pass the signals it receives to the SCART socket, so that you can view and hear the terrestrial programmes received by the TV set via the **K6**. This will also ensure that you will be able to see the on-screen menu system of the **K6** in TV mode. You may need to change this setting manually with some TV sets, i.e. set it to **'Operation with external decoder' *)**.

Select the video norm to suit the connected source devices

If you have a source device which generates different video norms, but a TV set which is not multi-norm capable, you may have to select the standard video norm for all devices, as all equipment generally supports this norm.

*) The steps required to configure your TV set in this way are described in the operating instructions supplied with the set.

If you have a **T+A** TV set of the types **TV 720, TV 820** or **TV 920**, please carry out the following adjustments:

Configuring the TV 720, TV 820 or TV 920		
No.	**F1 button**	**Select / activate menu point**
1	M	Call up *'TV'* menu
2	PIP red	Equipm. configuration
3	yellow	Device connection
4	blue	Euro 1
5	⬆⬇	Decoder A
6	OK	Store
7	PIP red	Signal type selection
8	⬆⬇	Decoder A controls AV operation
9	OK	Store
10	M	Return to **'Equipm. configuration'** menu
11	PIP red	further
12	yellow	RGB priority
13	◀◁▷▶	yes
14	OK	Store
15	M	Return to **'Equipm. configuration'** menu
16	M	Return to *'TV'* menu
17	white	Station settings
18	blue	TV station table
19	⬆⬇	Select program positions ****)**
20	white	Signal ****)**
21	blue	Aerial ****)**
22	◀◁▷▶	Aerial via Decoder A ****)**
23	OK	Store ****)**
24	TV	Leave menu

**) Steps 19-23 have to be repeated for all program positions you wish to use!

Typical wiring diagrams: Source device connection

CINCH DIGITAL KABEL
COAXIAL DIGITAL CABLE
CÂBLE COAX NUMERIQUE

DIGITALRECORDER
DIGITAL RECORDER
RECORDUER NUMERIQUE

Connecting a digital recorder

CINCH AUDIO KABEL
COAXIAL AUDIO CABLE
CÂBLE COAX AUDIO

ANALOGRECORDER
ANALOGUE RECORDER
RECORDUER ANALOGIQUE
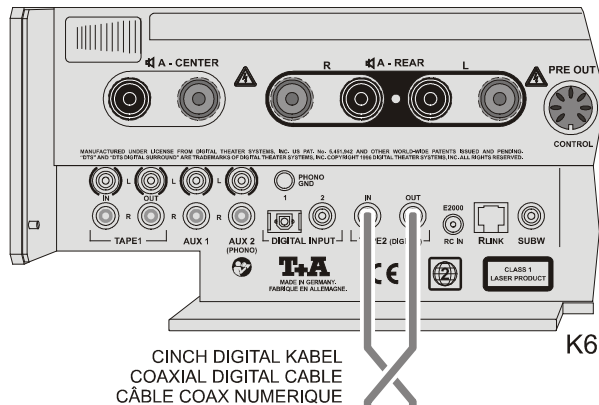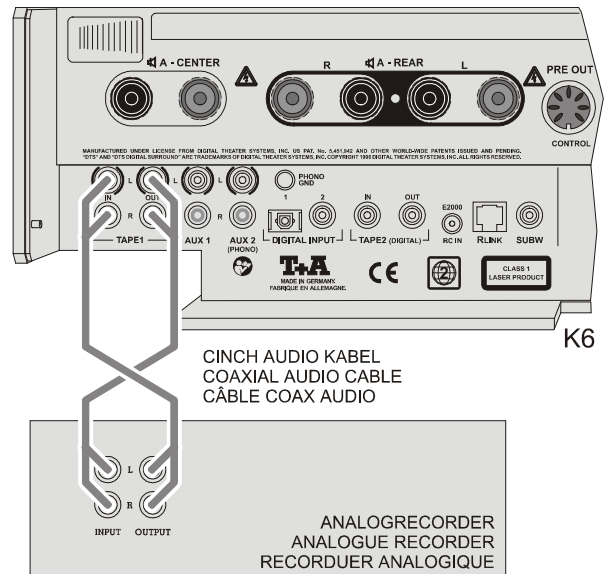
Connecting an analogue recorder

CINCH AUDIO KABEL
COAXIAL AUDIO CABLE
CÂBLE COAX AUDIO

MASSE KABEL
GROUND CABLE
CÂBLE MASSE
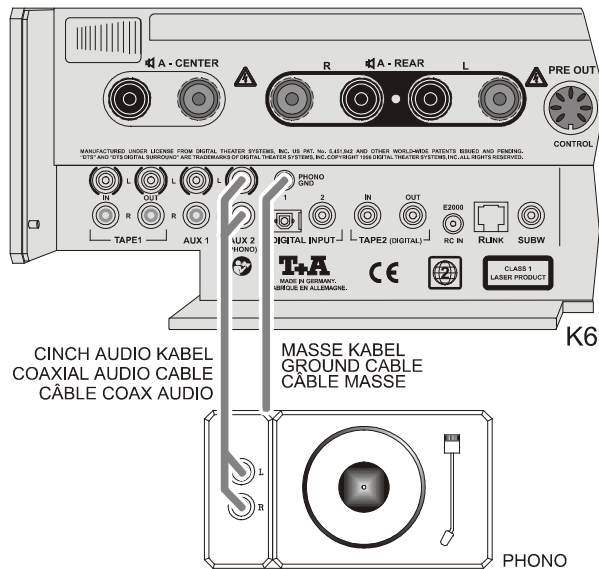
PHONO

Phono module (type PHE) MM or MC (optional acces-sory) required.

Connecting a turn table

SCART KABEL
SCART CABLE
CÂBLE SCART

*)

ANALOG OUTPUT   DIGITAL OUTPUT   SCART
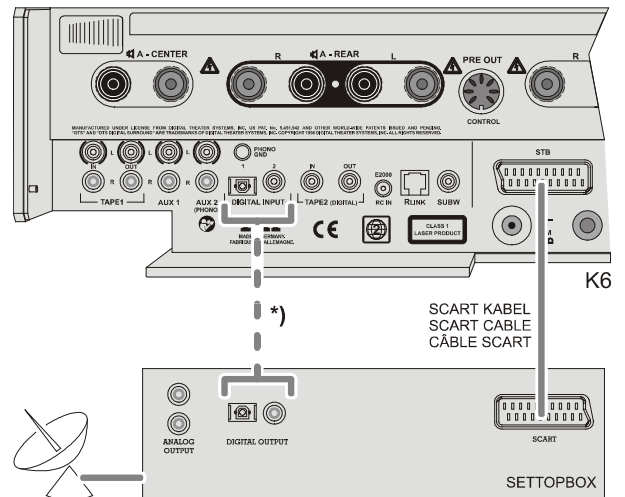
SETTOPBOX

***) If a digital output is present:
Use a Cinch digital cable or an optical cable**

Connecting a set-top box

Typical wiring diagram: adjacent room operation

The **K6** can provide sound in an adjacent room.

The **K6** is set up in the main room (**Room A**), i.e. the room in which the speakers connected to loudspeaker output ◁ **A** are located.

The adjacent room (**Room B**) houses the speakers which are connected to loudspeaker output ◁ **B**. If you wish to control the **K6** from the adjacent room by remote control, you need to install an **E 2000** remote control receiver (optional accessory) in Room B, and connect it to the **RC IN** remote control input socket on the **K6**.

You now need to access the *'Loudspeaker Menu'* and set the **split** mode for volume in the menu point **Volume A/B**. This makes it possible to alter the volume in the **adjacent room only**; in the main room you can **only alter the volume in that room**.

A TV set in the adjacent room can also be connected to the **K6** (not in S-Video mode).

In this case the TV is connected to the SCART socket marked **VCR/TV B**. If you have already connected a video recorder to this socket, the second TV can be connected to any unused AV output on the VCR.

In this case the on-screen menu for Room B should be switched off (see *'Configuration Menu'*), otherwise you may find that your recordings accidentally include superimposed on-screen menus.

To simplify the cabling, or as a superior solution if the route to the TV set in the adjacent room is very long, it is possible to transmit the TV signal using an RF modulator and a 75 Ω cable, or by a radio system. Please ask your specialist **T+A** dealer for details.

RAUM B (NEBENRAUM)
ROOM B (ADJACENT ROOM)
PIÈCE B (PIÈCE ANNEXE)

TV 920

FRONT RECHTS
FRONT RIGHT
AVANT DROITE

FRONT LINKS
FRONT LEFT
AVANT GAUCHE

SCART KABEL
SCART CABLE
CÂBLE SCART

E 2000

RAUM A (HAUPTRAUM)
ROOM A (MAIN ROOM)
PIÈCE A (PIÈCE PRINCIPALE)

K6

VIDEORECORDER
MAGNÉTOSCOPE

EURO AV1   EURO AV2
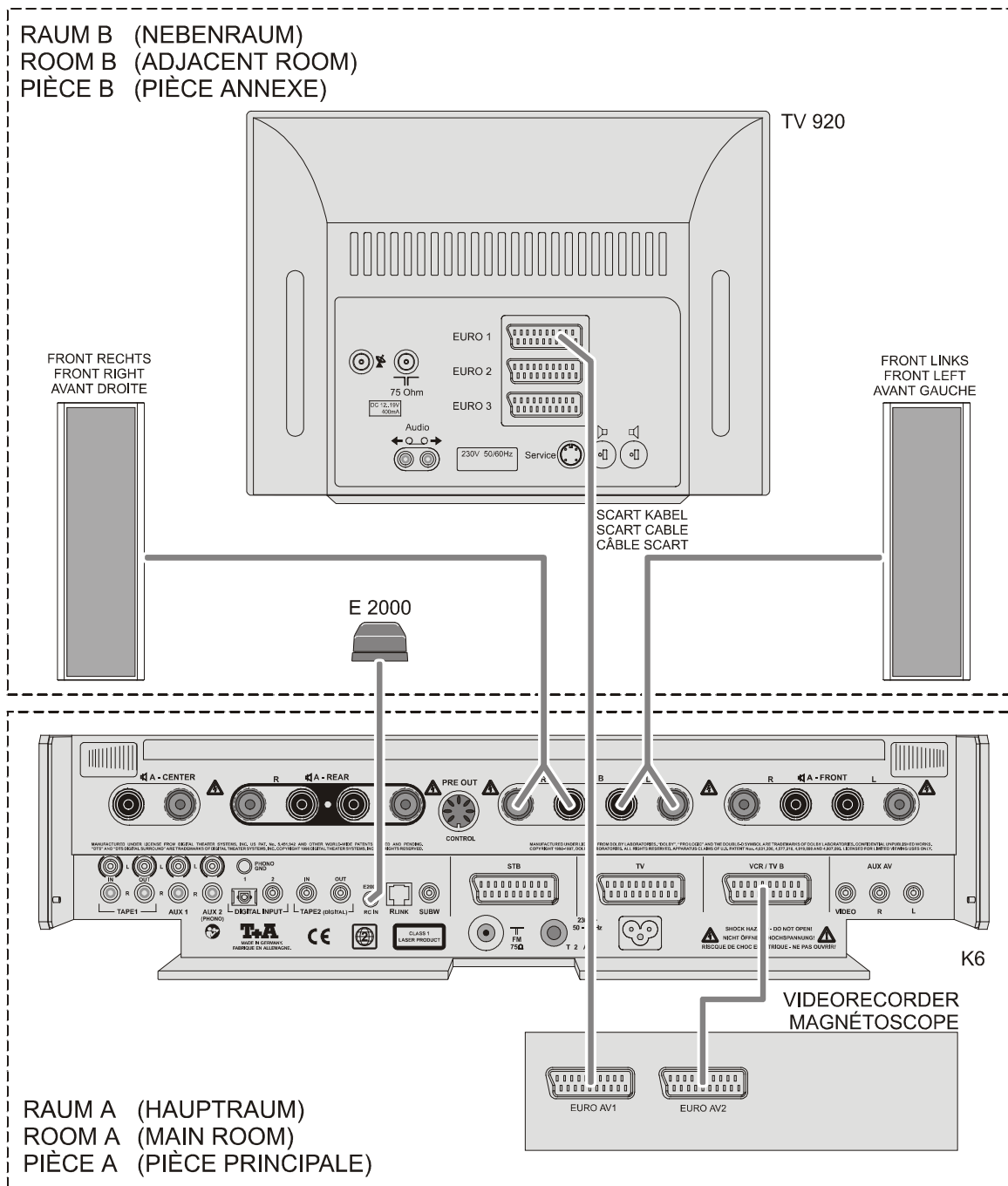
Device approval and conformity with EC directives

In its original condition the unit meets all currently valid German and European regulations. It is approved for use as stipulated within the EC.

By attaching the CE symbol to the machine, **T+A** declares its conformity with the EC directives **89/336/EEC**, amended by **91/263/EEC** and **93/68/EEC**, and **73/23/EEC**, amended by **93/68/EEC** and the national laws based on those directives.

The original, unaltered factory serial number must be present on the outside of the unit, and must be clearly legible. The serial number is a constituent part of our conformity declaration and therefore of the approval for operation of the device. The serial numbers on the device and in the original **T+A** documentation supplied with it (in particular the inspection and guarantee certificates), must not be removed or modified, and must match exactly.

Infringing any of these conditions invalidates **T+A** conformity and approval, and the unit may not then be operated within the EC. Improper use of the equipment renders the user liable to penalty under current EC and national laws.

Any modifications or repairs to the unit, or any other intervention by a workshop or other third party not authorised by **T+A**, invalidates the approval and operational permit for the equipment.

Only genuine **T+A** accessories may be connected to the decoder, or such auxiliary equipment which is itself approved, and fulfils all currently valid legal requirements.

When used in conjunction with auxiliary devices or as part of a system, this unit may only be used for the purposes stated in the section entitled *'Approved usage'*.

Care of the K6

Always disconnect the unit from the mains supply before cleaning it. The surfaces of the case should be wiped clean with a soft, dry cloth only. Never use abrasive or solvent-based cleaners! Before switching the unit on

again check carefully that no short-circuits exist at the terminals, and that you have not disturbed any connections.

Switching the remote control address

Switching the K6

If the **K6** responds to the remote control commands intended for another piece of equipment (TV or video recorder),it can be switched to an alternative remote control address. This is the procedure:

Switch the **K6** off, and then on again. Immediately after switching on, press the **left-hand select button** under the machine's front panel, and hold it pressed in until a running script appears on the integral screen.

●   ● ●
Select   Change
button   buttons
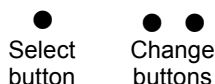
Release the switch, and hold the **left select button** pressed in again until the K6 switches to the next remote control address. The message on the integral screen (**'RC-ADR 1'** or **'RC-ADR 2'**) tells you the address (**RC-ADR**) to which the K6 has now switched.

Switching the remote control address

Now you must set up the address of the **F6** RC handset to match the **K6**:

Hold the ⬭OK button and the numeric button ⬭3 pressed in simultaneously. After about 10 seconds the LED will flash. Now press the numeric button ⬭1 or ⬭2.

Pressing the numeric button ⬭1 sets the remote control system to the standard RC address (*RC-ADR 1*), whereas button ⬭2 sets the alternative address (*RC-ADR 2*). The LED goes out to confirm that you have switched the setting.

Changing the batteries

To open the battery compartment disconnect the latch by pressing in, then lift the cover out. Remove the old cells and fit three new dry cells of the **LR 03 (MICRO)** type in the battery compartment, taking care to fit them with correct polarity. Please remember that **all the cells must be replaced** at the same time.
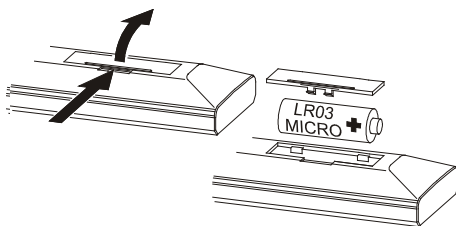
Note
If you have already re-set the remote control system to Address 2 (see above), you will need to repeat the change procedure after fitting new batteries.

Disposing of exhausted batteries
Exhausted batteries must never be thrown into the household waste! They should be returned to the battery vendor (specialist dealer) or your local toxic waste collection point, so that they can be recycled or disposed in a proper way. Most local authorities provide collection centres for such waste, and some provide pick-up vehicles for old batteries.

Appendix A
Trouble-shooting

Many problems have a simple cause and a correspondingly simple solution. The following section describes a few difficulties you may encounter, and the measures you need to take to cure them.

If you find it impossible to solve a problem with the help of these notes please disconnect the unit from the mains and ask your authorised **T+A** specialist dealer for advice.

General problems:

Problem:	Machine does not switch on.
Cause:	Mains cable not plugged in correctly.
Remedy:	Check connections, push plugs in firmly.

Problem:	Machine does not respond when buttons are pressed.
Cause:	Static discharge or powerful interference (e.g. lightning) have corrupted the processor memory.
Remedy:	**Reset machine**: disconnect mains plug, wait about 1 minute and re-connect. Switch unit on again.

Problem:	Machine responds correctly to manual operation of the buttons, but does not respond to remote control commands.
Cause 1:	Incorrectly inserted batteries or flat batteries in the remote control handset.
Remedy:	Re-install batteries correctly or fit new ones.
Cause 2:	No visual contact between remote control transmitter and the **K6**'s remote control receiver.
Remedy:	Ensure direct line-of-sight contact between remote control transmitter and receiver. Note that glass doors may prevent the system working properly. Maximum range between transmitter and receiver approx. 8 metres. Position the receiver in such a way that it is not subjected to direct sunlight or strong artificial lighting. Fluorescent and energy-saving lamps are powerful sources of interference.

Problem:	No output signal at the loudspeakers; the speaker indicators A◁B on the integral screen flash.
Cause 1:	The unit is overheating, and the protection circuit has tripped.
Remedy:	Reduce volume and wait for about 20 seconds. If the unit does not switch on again automatically, it has become too hot and should be left switched off for a few minutes to cool down.

Cause 2:	Short-circuit in the speaker cables, e.g. stray wire ends touching at the speaker terminals, or mechanical damage to the cables.
Remedy:	Check speaker cables and terminals, twist wire ends together neatly, replace damaged cables.

Problem:	The device switches itself off automatically.
Cause:	The Protection circuit has tripped, typically due to long-term overheating.
Remedy:	Leave the unit switched off for several minutes and improve the ventilation.

Sound problems:

Problem:	Loud humming noise from the loudspeakers.
Cause:	Poor contact between the Cinch plugs and sockets, or a faulty Cinch cable.
Remedy:	Please check all connections and cables thoroughly.

Problem:	No sound signal via the digital output.
Cause:	Digital plug not connected correctly to the digital output socket of the device.
Remedy:	Check connections against wiring diagram; push all connectors in firmly.

Problem:	No sound from center, or center sound signal too quiet.
Cause:	Center speaker not connected, but activated in *'Loudspeaker Menu'*.
Remedy:	Connect center loudspeaker, or disable center speaker in *'Loudspeaker Menu'*.

Problem:	No sound from individual loudspeaker..
Cause 1:	Loudspeaker not activated in *'Loudspeaker Menu'*.
Remedy:	Call up *'Loudspeaker Menu'* and enter the type of loudspeaker connected.
Cause 2:	Loudspeaker cable not connected correctly, or short-circuit in speaker cable.
Remedy:	Check connection and speaker cable, correct if necessary.

Cause 3:	**K6** not set to surround mode.
Remedy:	Set to surround mode, or select one of the sound fields.
Cause 4:	Programme contains no information on the auxiliary channels (e.g. stereo material).
Remedy:	If you wish, call up the **'Main Menu'** and select a sound field.
Cause 5:	The level for the channel affected is set too low.
Remedy:	Call up **'Loudspeaker Balance Menu'** and raise the level.

Problem:	**No bass, or inadequate bass.**
Cause 1:	No subwoofer connected, but activated in **'Loudspeaker Menu'**.
Remedy:	Connect subwoofer, or disable subwoofer in **'Loudspeaker Menu'**.
Cause 2:	Size of loudspeakers entered incorrectly in **'Loudspeaker Menu'**.
Remedy:	Call up **'Loudspeaker Menu'** and check that settings match the loudspeakers in your system; correct if necessary.

Problem:	**The signal from an analogue source device occasionally suffers distortion during very loud passages. The integral screen shows** **'OVERLOAD'**
Cause:	The analogue/digital converter is overloading.
Remedy:	Re-calibrate the analogue/digital converter to this source device. See **'Inputs Menu'**.

Picture problems:

Problem:	**'Main Menu'** not displayed on the television screen.
Cause:	On-screen display of **'Main Menu'** switched off in **'Configuration Menu'**.
Remedy:	Call up **'Configuration Menu'** and switch on '**On-screen Menu**'.

Problem:	**No picture from some or all source devices.**
Cause:	Source devices not supplying the switching signal which the TV set requires to switch over to AV mode.
Remedy:	Set television to **'constant AV operation'** mode.

Problem:	**Neither on-screen menu nor other external programs appear on the TV screen. TV only shows those stations which are received via its own aerial.**
Cause 1:	Video cable not connected properly.
Remedy:	Push in all connectors firmly.
Cause 2:	The TV set does not switch automatically to the AV input.
Remedy:	Set the TV to **'AV mode'**.

Problem:	**Picture unstable.**
Cause:	Synchronisation signal absent.
Remedy:	Push connector in firmly, or set TV to **'AV mode'**.

Problem:	**Monochrome picture only.**
Cause:	Incompatible video norms set on the TV, the **K6** and the source device.
Remedy:	Set TV, **K6** and source device to the same video norm.
Note:	If problems persist, set the **K6** to the '**RGB / Video**' norm; select the video norm '**Video**' (occasionally also termed '**CVBS**' or '**Composite**') on the TV set and the source device.

Problem:	**Nothing appears on the integral screen.**
Cause:	The screen is switched off.
Remedy:	Switch the screen on again (see ⬭DISP button).

Problem:	**The automatic 4:3 / 16:9 format switch does not work.**
Cause 1:	The TV set is not exploiting the switching signal supplied through the SCART cable.
Remedy:	Switch TV set to '**controlled AV operation**' mode, or switch TV set manually.
Cause 2:	The source device is not supplying the requisite switching signal.
Remedy:	Switch TV set manually.
Cause 3:	You are using the wrong cables. The switching signals are only passed via SCART cables.
Remedy:	Use SCART cables.

Problem:	When playing an NTSC-DVD the on-screen menu is distorted.
Cause:	The TV set does not feature automatic format detection for NTSC, and has been set manually to NTSC. The **K6's** on-screen menus are only generated in PAL format, so this operation is not possible.
Remedy:	Use a TV set with automatic PAL / NTSC format switching, or use the **K6's** integral screen.

Problem:	No OSD menus (screen stays dark when a menu is called up)
Cause:	The TV set has no automatic RGB / CVBS switching, and is configured for RGB.
Remedy:	Set the TV set to CVBS mode (see also *'Adjustments at the TV set'*).

Problem:	OSD menu black / white only
Cause:	The TV set has no automatic S-Video / CVBS switching, and is configured for S-Video.
Remedy:	Set the TV set to CVBS mode (see also *'Adjustments at the TV set'*).

Problem:	Picture from an external source device correct, but no sound audible through the K6.
Cause 1:	No sound connection between source device and **K6**.
Remedy:	Complete the sound connection (analogue or digital depending on mode); see section entitled *'Setting up, using the K6 for the first time'*.
Cause 2:	No sound input, or the wrong sound input, has been assigned to the video input in the *'Inputs Menu'*.
Remedy:	Check the sound input to which the source device is connected. Call up the *'Inputs Menu'* and carry out the correct assignment.
Cause 3:	The loudspeakers are switched off.
Remedy:	Switch on the speakers using the (A/B) button.

Problems in DVD / CD mode:

Problem:	The disc does not play after the drawer is closed.
Cause 1:	Disc not correctly inserted.
Remedy:	Insert disc centrally, printed face up.
Cause 2:	Disc dirty.
Remedy:	Carefully wipe disc with a soft cloth, working from the center to the edge. Insert and try again.
Cause 3:	Disc damaged in Table of Contents area (TOC).
Remedy:	Disc is unusable.
Cause 4:	Device has cooled down severely (e.g. after being transported), and condensation has formed on the laser pick-up optics.
Remedy:	Leave the unit in a warm, well ventilated place for about 1 hour to warm up.

Problem:	Disc stops playing or 'skips'.
Cause:	Disc is dirty or damaged.
Remedy:	Clean the disc. Damage cannot be repaired.

Problem:	Black / white or distorted image when playing a DVD or VCD.
Cause:	The TV set is not set to the same video norm (PAL / NTSC) as the disc, or cannot process its video norm.
Remedy:	Use a multi-norm TV set. These units switch to the current video norm automatically, or can be switched manually.

Problem:	Distorted picture.
Cause:	The disc is soiled, e.g. by finger marks.
Remedy:	Clean disc with a soft cloth, wiping in straight lines from center to edge.

Problem:	The device does not return to the start screen after removing the disc.
Cause:	The program may be waiting for insertion of a further disc.
Remedy:	Insert next disc.

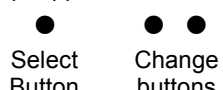| Problem:	**The picture is too small, or not shown completely (cut off).**
Cause 1:	The DVD in the drawer is not set to the video format (**4:3** or **16:9**) of the connected TV set.
Remedy:	Set the correct video format in the **'Player Setup Menu'**.
Cause 2:	Many DVDs contain film versions in different video formats on the front and back faces.
Remedy:	Turn the DVD over, or set the correct video format in the **'Player Setup Menu'**.
Cause 3:	TV is set to the wrong picture format.
Remedy:	Set TV to correct video format, i.e. the format matching the DVD.

Problem:	**Some functions are not carried out by the K6.**
Cause 1:	Function not available for this DVD.
Cause 2:	Function (e.g. camera angle, sub-titles etc.) not present on this DVD.
Remedy:	No remedy.

Problem:	**After inserting a DVD a note on incorrect regional code appears.**
Cause:	The DVD is not approved for use in Europe.
Remedy:	Return disc to your DVD dealer and exchange it for a European version.

Problem:	**In rare cases the disc menu function of the DVD cannot be operated if the video format is set to 'Pan Scan'.**
Remedy:	Change picture format to 'Letterbox'; then call up the disc menu function again.

Problems in Tuner mode:
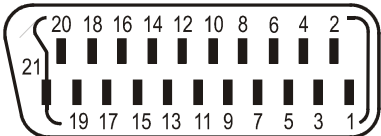
Problem:	**Very few stations, or even none at all, can be received.**
Cause:	The aerial system or aerial cable is defective.
Remedy:	Check the aerial cable for good contact in the aerial socket and on the **K6** itself. There must be no damage, and no kinks in the cable. If necessary fit a new aerial cable.
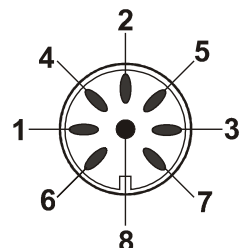
Problem:	**After a house move the integral screen still displays the old program names - but the stations can no longer be picked up.**
Cause:	Programs with station names and reception frequencies are still stored in the **K6**, but they can no longer be received in the new locality.
Remedy 1:	Clear the programs which cannot be received individually (see **'Clearing Programs'**).
Remedy 2:	Clear all stored programs: Switch the **K6** off, then on again. After switching on press the **Select button** below the unit's front panel until a running script appears on the screen. ● ● ● Select Change Button buttons Now hold the **left change button** pressed in until the integral screen displays the message: *'PRES - CLEAR'* Finally press the ⬭OK⬭ button on the remote control handset for about three seconds, until the screen reverts to the normal display. All the stored programs have now been cleared.

Problem:	**The RDS station name does not appear on the integral screen.**
Cause 1:	The station does not broadcast RDS information, or the station is not correctly tuned.
Remedy:	Tune in the station so that the tuning indicator is central.
Cause 2:	The station is received with interference, or the field strength is too low.
Remedy:	Select stations which can be picked up without background hiss and interference.

Problem:	**When you switch programs, the RDS station name is not displayed correctly.**
Cause:	The transmitter is broadcasting the RDS station name as a running script, which is contrary to the norm.
Remedy:	Rename program (see **'Renaming a program'**).

Appendix B
Pin assignments

SCART

View from outside

Pin	VCR / TB B		SET TOP BOX		TV	
	RGB / Video	**S-Video**	**RGB / Video**	**S-Video**	**RGB / Video**	**S-Video**
1	Audio Out (R)	Audio Out (R)	---	---	Audio Out (R)	Audio Out (R)
2	Audio In (R)	Audio In (R)	Audio In (R)	Audio In (R)	Audio In (R)	Audio In (R)
3	Audio Out (L)	Audio Out (L)	---	---	Audio Out (L)	Audio Out (L)
4	Audio Gnd.	Audio Gnd.	Audio Gnd.	Audio Gnd.	Audio Gnd.	Audio Gnd.
5	Gnd.	Chroma Out Gnd.	Blue In Gnd.	Gnd.	Blue Out Gnd.	Chroma In Gnd.
6	Audio In (L)	Audio In (L)	Audio In (L)	Audio In (L)	Audio In (L)	Audio In (L)
7	---	Chroma Out	Blue In	---	Blue Out	Chroma In
8	Switch voltage	Switch voltage	Switch voltage	Switch voltage	Switch voltage	Switch voltage
9	Gnd.	Gnd.	Green In Gnd.	Gnd.	Green Out Gnd.	Gnd.
10	Control signal	Control signal	Control signal	Control signal	Control signal	Control signal
11	---	---	Green In	---	Green Out	---
12	---	---	---	---	---	---
13	Gnd.	Chroma In Gnd.	Red In Gnd.	Gnd.	Red Out Gnd.	Chroma Out Gnd.
14	Gnd.	Gnd.	Blanking Gnd.	Gnd.	Blanking Gnd.	Gnd.
15	---	Chroma In	Red In	Chroma In	Red Out	Chroma Out
16	---	---	Blanking	---	Blanking	---
17	Video Out Gnd.	Lumin. Out Gnd.	Gnd.	Gnd.	Video Out Gnd.	Lumin. Out Gnd.
18	Video In Gnd.	Lumin. In Gnd.	Video In Gnd.	Lumin. In Gnd.	Video In Gnd.	Lumin. In Gnd.
19	Video Out	Luminance Out	---	---	Video Out	Luminance Out
20	Video In	Luminance In	Video In	Luminance In	Video In	Luminance In
21	Gnd.	Gnd.	Gnd.	Gnd.	Gnd.	Gnd.

PRE OUT CONTROL
View from outside

Pin	Signal
1	
2	Pre out *Gnd.*
3	Pre out *Front left*
4	Speaker mute control signal (0 / +8V)
5	Pre out *Front right*
6	
7	Control Gnd.
8	*'On control'* signal (0 / +5V)

Appendix C
Specification

Connections

AV sockets	SCART	3	*Video:* RGB, S-VIDEO, CVBS	*Audio:* Stereo
AV sockets	Cinch	1	*Video:* CVBS	*Audio:* Stereo
Audio inputs	Cinch	2	Analogue Stereo	1 x phono (optional)
Digital inputs	optical	1	Multi-channel and Stereo-PCM (SP/DIF), 44.1 kHz and 48 kHz	
	coaxial	2	Multi-channel and Stereo-PCM (SP/DIF), 44.1 kHz and 48 kHz	
Audio recorder outputs	digital	1	Stereo-PCM SP/DIF	
	analogue	1	Stereo analogue	
Active subwoofer output		1		
Loudspeaker output	5-ch. surround	1	für Passivlautsprecher 4 Ω - 8 Ω	
	2-ch. stereo	1	für Passivlautsprecher 4 Ω - 8 Ω	
	DIN 8-pin.	1	für **T+A** Aktivlautsprecher	
Headphone socket		1	für Stereokopfhörer >32 Ω	

Decoder / pre-amplifier

A/D converter	2 channel, 20 Bit, 48 kHz
D/A converter	192 kHz / 24 Bit
Decoder type	56 Bit signal processor
Operational modes	Dolby Pro Logic II, Dolby Digital, dts, Stereo, Mono, two-channel TV sound, sound fields
Frequency response	1 Hz ... 22 kHz
Total harmonic distortion	< 0.008 %
Signal : noise ratio (A- / unweighted)	> 102 dB / > 97 dB
Channel separation	> 80 dB
Volume control	analogue, in 1.0 dB increments
Tone controls	Fully digital, channel-separate

Output stages

		5 for main room	2 for adjacent room
Nominal output / channel	4 Ω / 8 Ω	80 W / 45 W	15 W / 10 W
Peak output	4 Ω / 8 Ω	90 W / 50 W	20 W / 15 W
Frequency response (+0 -3dB)		2 Hz - 150 kHz	
Slew rate		30 V / µs	
Damping factor		> 300	
Total harmonic distortion		< 0.015 %	

Tuner

Sensitivity, mono / stereo	1.5 µV / 45 µV
Signal : noise ratio (A-w.), St/Mo	68 / 73 dB
Frequency response	5 Hz - 15 kHz
Total harmonic distortion, St/Mo	0.2 / 0.15 %
RDS functions	Station name, Radiotext, automatic time adjust

DVD

Mechanism	Close-tolerance linear mechanism, 2 separate GaA/As semi-conductor lasers (785 nm / 10 mW CD, 650 nm / 7 mW DVD)
Playable media	DVD-Video, CD, CD-R, CD/RW, VCD, MP3 CD; PAL and NTSC
Frequency response	20 Hz - 20 kHz
Effective system dynamic range	98 dB

Miscellaneous

Mains power supply	230 V / 50-60 Hz, 550 VA
	Timer with alarm function, automatic calibration function for analogue inputs, automatic volume calibration for loudspeakers
	on-screen menus in PAL
Dimensions (H x W x D)	12.5 x 56.0 x 33.0 cm (screen retracted)
	15.0 x 56.0 x 33.0 cm (screen extended)
Available finishes	Silver eloxided aluminium / black eloxided aluminium
Accessories	**F6** remote control handset, calibration microphone, mains cable, headphone adaptor, wire aerial, SCART cable, operating instructions, quality control and guarantee certificates
Optional accessories	Type PHE phono module, MM or MC

We reserve the right to alter specifications.

T+A elektroakustik GmbH & Co KG
Herford
Deutschland * Germany * Allemagne

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http://www.luxmanual.com

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