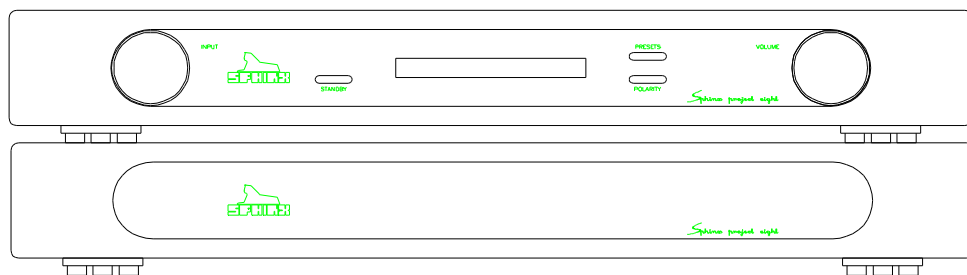


USER MANUAL

PROJECT EIGHT REFERENCE PRE-AMP



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Congratulations with your purchase of the Sphinx Project Eight!

You are now a member of an ever increasing group of quality conscious audiophiles using Sphinx products.

We are very proud of the tradition connected to the SPHINX name especially concerning audio quality perfection.

This manual will help you to gain a maximum amount of pleasure and quality from your new Sphinx Project Eight Reference Pre-Amp.

This Reference pre-amp uses the newest technologies and refined designs and is extremely simple to operate.

Such as the ultra-linear extremely low-noise Class A audio circuits, built from the finest hand-selected parts.

The signal path is completely balanced from input to output, and left and right are totally separated. Volume and balance control is done by means of precision relays, as is the input selection.

All settings and controls can also be done via the supplied Sphinx *Remote Control*.

To obtain the maximum quality from this power amp it is necessary to use it with top quality audio components. So preferably use it with other Sphinx components.

Please read this manual carefully before you install or use the Project Eight. It is important to familiarise yourself with the special functions, operation and possibilities of the Sphinx Project Eight.

Your local dealer will be able to answer any questions concerning other Sphinx audio components.

1. UNPACKING

Before leaving the factory every Project Eight is subjected to stringent and extensive technical and exterior quality inspections.

This ensures you will enjoy many years of high quality audio from a perfect looking product.

After unpacking your Project Eight we therefore recommend you carefully check it for any transport damage.

In case of damage: please contact your Sphinx dealer immediately and retain all packing materials for possible proof of damage and possible claims.

Even if the component is in perfect condition you still should keep the packing materials. If you need to transport your Project Eight at a later time it will be best protected by the original packing materials.

2. SPHINX WARRANTY CARD

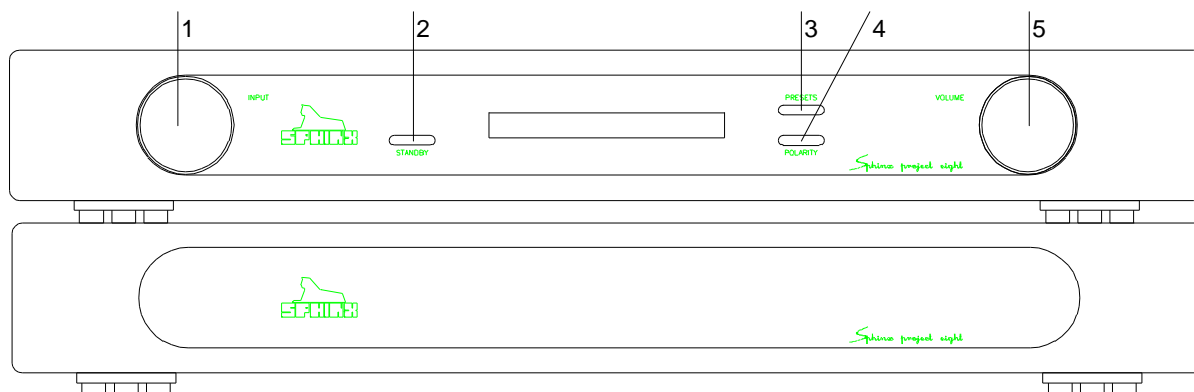
Please take this opportunity to fill out the enclosed warranty card now!

Follow the instructions on the card or consult your dealer.

Please send the card as soon as possible to the return address (within 14 days after purchase).

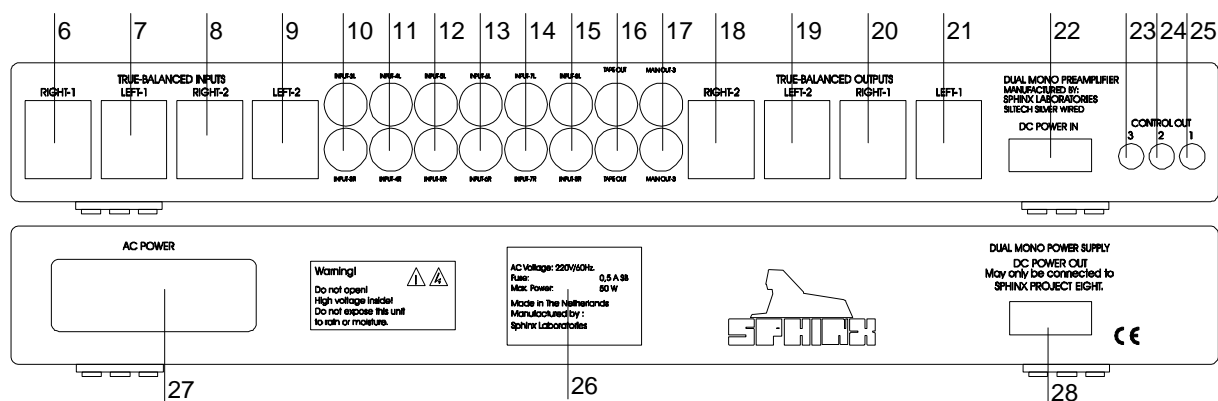
3. THE PRE-AMP AT A GLANCE

Front panel



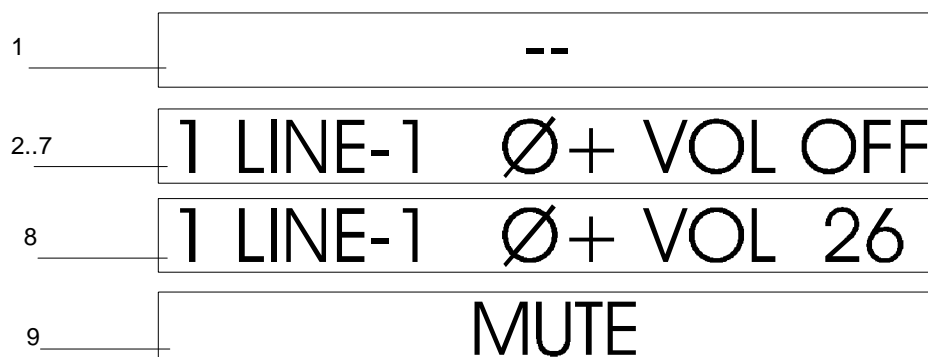
1. **INPUT:** With this rotary knob you select one of the inputs (1 - 8).
Turn clockwise for a higher numbered input, anti-clockwise for a lowered numbered input.
During *set-up* mode this knob is used to adjust several parameters.
2. **STANDBY:** To switch the component on and off.
When the component is 'off' (standby) this is indicated in the display by a small blue dot.
3. **PRESETS:** This button selects the *set-up* mode: the display automatically will show the first parameter to adjust.
Each press on the button selects the next parameter.
After the fifth press the *set-up* is deselected (see also Chapter 7. CHANGING PRESETS).
4. **POLARITY:** This button selects the polarity between + and - for the active input (as shown in display).
5. **VOLUME:** This rotary knob adjusts the volume level for the active input (as shown in display) from OFF to 99.

Rear panel



- INPUT RIGHT-1:** To connect the XLR signal cable (balanced cable) from the right output of the signal source for input 1.
- INPUT LEFT-1:** To connect the XLR signal cable (balanced cable) from the left output of the signal source for input 1.
- INPUT RIGHT-2:** To connect the XLR signal cable (balanced cable) from the right output of the signal source for input 2.
- INPUT LEFT-2:** To connect the XLR signal cable (balanced cable) from the left output of the signal source for input 2.
- INPUT-3L+R:** To connect the cinch signal cable from the signal source for input 3.
- INPUT-4L+R:** To connect the cinch signal cable from the signal source for input 4.
- INPUT-5L+R:** To connect the cinch signal cable from the signal source for input 5.
- INPUT-6L+R:** To connect the cinch signal cable from the signal source for input 6.
- INPUT-7L+R:** To connect the cinch signal cable from the signal source for input 7.
- INPUT-8L+R:** To connect the cinch signal cable from the signal source for input 8.
- TAPE OUT:** Connect this output with the input of the recorder.
- MAIN OUT-3L+R:** Connect this output with a cinch signal cable to the input of your power amp.
- OUT RIGHT-2:** To connect the XLR signal cable (balanced cable) from the right input of the extra power amp or surround processor.
- OUT LEFT-2:** To connect the XLR signal cable (balanced cable) from the left input of the extra power amp or surround processor.
- OUT RIGHT-1:** To connect the XLR signal cable (balanced cable) from the right input of the power amp.
- OUT LEFT-1:** To connect the XLR signal cable (balanced cable) from the left input of the power amp.
- DC POWER IN:** To connect the flat-cable coming from the power supply (see 28.).
- CONTROL OUT 3:** To connect the optical cable going to another Sphinx component.
- CONTROL OUT 2:** To connect the optical cable going to another Sphinx component.
- CONTROL OUT 1:** To connect the optical cable going to another Sphinx component.
- Manufacturers label:** This shows important data for the component such as serial number and mains power voltage.
- AC Power:** Connect the mains cable to a mains power outlet (100 - 240 VAC).
- DC POWER OUT:** To connect the flat-cable going to the pre-amp (see 22.).


4. DISPLAY



1. --: Showing in the display's centre this indicates the Project Eight is in standby mode. You activate the Project Eight with the STANDBY button and the display will show

SPHINX PROJECT EIGHT

after which it switches to the last selected input before stand-by mode was selected.

2. **Input:** This is the number of the input selected with the INPUT knob (1 to 8).
3. **Name:** The assigned name of the selected input (max. 8 chars).
4. **AE +:** Indicates the polarity of the selected input being 'normal' (in-phase).
5. **AE -:** Indicates you have selected the *reverse* polarity (out-of-phase) for the input with the POLARITY button.
6. **OFF:** Indicates the volume control is 'off' so no signal is being outputted.
7. **VOL:** Indicates the volume control is set to the value shown at 8..
8. **1 - 99:** This indicates the value of the volume control in dB (1 = minimum and 99 maximum). The control has a resolution of 1 dB and a control span of 100 dB.
9. **MUTE:** As soon as you press the  button on the Remote all indications will disappear and the display shows "MUTE".

A press on the PRESETS button results in the following indication:

10. PROJECT EIGHT SET-UP:

This indication briefly shows after a press on PRESETS. You have selected the SET-UP mode.

More in depth information about the set-up mode you will find in Chapter 7. CHANGING PRESETS.

Another press on the STANDBY button deselects the SET-UP mode.

5. INSTALLATION AND CONNECTIONS

Installation

The Project Eight consists of two separate cabinets: the power supply (without knobs) and the pre-amp itself.

Position the power supply at the desired location with the pre-amp on top of it. The special rubber feet will prevent any damage to the power supply's top panel.

The Project Eight will not become very hot so placement is not critical. Although you should *not* place it on top of or near other heat radiating equipment (such as power amps) or in direct sunlight.

If you need to use the pre-amp in a closed cabinet or on a bookshelf you absolutely should provide unrestricted ventilation around the component.

To prevent any possible interference keep power supply cables away from all audio cables.

If all these conditions are met the Project Eight will perform to the extremely high standards it is designed for.

Connecting the mains cable

Before you connect the cable please check whether the mains voltage indicated on the manufacturers label on the rear panel is the same as your local mains voltage.

If not: please contact your dealer and do not connect the component to the mains.

Connect the special flat-cable between the power supply's DC POWER OUT (28.) and the pre-amp's DC POWER IN (22.).

Note: Each connector should 'click' into place.

This silver cable transports all DC voltages from power supply to pre-amp.

You switch the pre-amp on or off with the STANDBY button. This way the electronic circuits will be kept at optimum working temperature so you can enjoy maximum audio quality immediately after switching-on. On top of that it significantly increases the life span of the component.

Connect the mains cable after you have connected all other components in the system and have double-checked all connections (see Chapter 6.)

Audio connections

Before you start connecting equipment it is always wise to check whether all mains power cables of all components are disconnected from the mains outlets!

This will prevent any damage to the loudspeakers and amplifiers caused by incorrect wiring or settings.

Make sure you connect L and R properly. Most cinch cables use red for the right channel and white or black for left.

All cinch connectors on the Project Eight's rear panel have a red centre for the right channel and a white one for the left channel.

The XLR connectors are marked RIGHT and LEFT. When making the connections please refer to the descriptions for parts 6. up to 28. on page 5.

Connecting the power amp

There are three outputs: Main Out-3 (unbalanced cinch) and True Balanced Outputs-1 en -2 (balanced XLR's).

All three can be used simultaneously. In SET-UP mode you can select which ones are active: All Off, XLR or XLR+Cinch.

If you do *not* use Main Out-3 we recommend you deselect this output with the SET-UP mode (select MAIN OUT: XLR ONLY).

Balanced

Use a balanced XLR cable to connect TRUE BALANCED OUTPUTS Right-1 and Left-1 to the corresponding inputs of the power amp.

Use a balanced XLR cable to connect TRUE BALANCED OUTPUTS Right-2 and Left-2 to the corresponding inputs of another component such as an extra power amp or surround processor.

Unbalanced

Use a normal cinch cable (but of the best quality!) to connect MAIN OUT-3 to the corresponding inputs of the power amp or any other component.

Connecting a recorder

Connect the recorder's inputs to the TAPE OUT outputs.

Connect the recorder's outputs to INPUT-4.

Connecting the inputs

There are two balanced and six unbalanced inputs. The default names are (as will be shown in the display):

1 = CD	5 = Aux-1
2 = SYMM-2	6 = Aux-2
3 = Tuner	7 = Aux-3
4 = Tape	8 = Aux-4

You can change these names however (see Chapter 7. CHANGING PRESETS).

Balanced

Use TRUE BALANCED INPUTS-1 and -2 to connect the balanced outputs of other signal sources.

Note: If your CD player does not have balanced outputs, connect it for example to INPUT-5.

You may connect any signal source to any input.

Unbalanced

The unbalanced inputs INPUT-3 up to INPUT-8 may be used for any unbalanced line level signal.

Connecting a turntable

There is no specific RIAA phono-input. When using a turntable you should pre-amplify the signal with a separate phono pre-amp (or *pre-pre-amp*). The turntable may be connected in two ways.

Balanced

Connect the balanced output of a phono pre-amp to TRUE BALANCED INPUT-2 (for example).

Unbalanced

Connect the unbalanced output of a phono pre-amp to one of the cinch inputs (INPUT-5 to INPUT-8). You may connect the phono pre-amp balanced and unbalanced simultaneously! Or you may use two different pre-amps.

Connecting a CD player

The CD player may be connected in two ways.

Balanced

Connect the balanced output of a CD player to TRUE BALANCED INPUT-1.

Unbalanced

Connect the unbalanced output of a CD player to INPUT-5.

You may connect the CD player balanced and unbalanced simultaneously! Or you may use two different CD players.

Connecting a tuner

Connect the unbalanced output of a tuner to INPUT-3.

If applicable you may connect the tuner's balanced outputs to TRUE BALANCED INPUT-2 (if not in use by another component)!

Connecting other signal sources

INPUT-6 to INPUT-8 are available for other signal sources.

Connecting the optical cables

The Project Eight has three CONTROL OUT optical connectors so it can remotely switch three other Sphinx components to stand-by.

When the CONTROL IN of a component is connected to the CONTROL OUT of the Project Eight with an optical cable you do not have to use that component's ON/OFF switch. As soon as the Project Eight is selected to stand-by the other component is also selected to stand-by.

CONTROL OUT-1: This output has a built-in delay of 1 sec and might for instance be used to control power amps. The delay will prevent any power-on transient from one of the signal sources from damaging the loudspeakers.

CONTROL OUT-2: This output is activated as soon as the Project Eight is switched.

CONTROL OUT-3: This output can be linked to a certain input via the AUTO ON mode (see Chapter 7, item 6.).

The effect is that only after you select the specific input on the Project Eight the signal source connected to that input is activated.

Ensure proper connection of the optical cables (from CONTROL OUT to CONTROL IN), otherwise the LED next to the STANDBY button (1) on the front panel may remain green although the stand-by mode is activated.

6. OPERATION

After you have finished connecting all components, you can power on the Project Eight. There is no separate mains power switch while the Project Eight should remain powered at all times.

That way all circuits will remain at optimum operating temperatures and the audio quality will be at 100% immediately after switching on. Additionally it significantly increases the life span of the component.

Connect the mains cable to a mains outlet. The display will show the following messages (*the first is the unique serial number which may also be found on the manufacturer's label on the rear panel of the power supply*):

**SR. NR. 08-xxxx-xxx
SPHINX PROJECT EIGHT
CURRENT SETTINGS:**

After which all inputs with their default settings are being displayed in ascending order. Then the text:

STANDBY

is shown of which the brightness is decreased in three steps before it disappears. The display then only shows
--

The Project Eight is now in stand-by mode.

Power on

You switch the Project Eight on with the STANDBY button. The display briefly shows

SPHINX PROJECT EIGHT

before it shows the settings for input 1:

1 CD A + VOL OFF

indicating respectively number and name of the input, polarity and volume level.

Selecting an input

You select the input with the large rotary knob INPUT:
clockwise a higher numbered input,
anti-clockwise a lower numbered input.
Upon reaching input 8 or 1 you can't 'roll over' to input 1 or 8 respectively.

As long as you move the knob only the display will change: the current selected input remains active. The new input only becomes active after you have selected it and release the INPUT knob. You will hear a 'click'. This is caused by the precision relays for the inputs: the 'old' one is released while the new one is energised.

Each input has it's own name. You can adjust the names to you own preferences and/or your audio-video system (see Chapter 7. CHANGING PRESETS).

Adjusting the volume level

The large VOLUME control to the right adjusts the volume level from OFF to 99 (maximum). The level change is immediate. Each step will produce a 'click' from a relay.

Changing the polarity

The polarity ('phase') of each input can be changed from + to - and back. You press the POLARITY button to right of the display.

Memory mode

The Project Eight has a MEMORY mode: it remembers all settings of each input. As soon as you select an input the last programmed settings are used. The pre-amp also automatically selects the last input that was active before you switched the component off with the stand-by button.

Power off

You switch the Project Eight off (to stand-by) with the STANDBY button (1).

7. CHANGING PRESETS

During the last quality inspection all settings (PRESETS) are being programmed into the Project Eight's memory.

These default settings are based on the most likely system configuration in use with most of the Project Eight owners.

These default presets will indefinitely remain in memory even after the mains power has been disconnected.

You may change these presets however so you can incorporate your Project Eight completely into your own system or if you need to add a new component to the existing system.

These user presets also remain in memory (in an EEPROM), even after the mains power has been disconnected.

Note: As soon as you have changed one setting and you do not need to change another you may quit the SET-UP mode by pressing the STANDBY button.

There are two types of presets: *general* which apply to the component as a whole and presets for each *input*.

General presets

The general presets you can change are the *channel balance*, the *active outputs*, the *tape output*, the *display brightness* and which input controls the optical Control Out-3 output.

After a brief press on the PRESETS button the display will show:

1. **PROJECT EIGHT SET-UP:** This indication will appear briefly to indicate you have selected the SET-UP mode. The display automatically shows the next indication...
2. **+0 dB BALANCE +0 dB:** This indicates the setting of the balance control, the left value (from +0 to -9) is for the left channel, the right value for the right channel.
The INPUT control now has become BALANCE control and by turning you can adjust the channel balance: anti-clockwise to decrease the right signal (the right-hand value decreases), clockwise to decrease the left signal (the left-hand value decreases).

Another press on PRESETS displays:

3. **MAIN OUT::** This shows the active outputs. You select the correct setting with the INPUT control:
ALL OFF : outputs off (muted)
XLR : XLR output active
XLR+CINCH : XLR plus cinch output active.

Another press on PRESETS displays:

4. **TAPE OUT: ON / OFF:** Indicates whether the tape output is active or not. You select the correct setting with the INPUT control.

Another press on PRESETS displays:

5. **BRIGHTNESS: 100/75/50/25%:** Indicates the brightness of the display. You select the correct setting with the INPUT control.

Another press on PRESETS displays:

6. **AUTO ON: INPUT ...:** Indicates which selected input activates CONTROL OUT-3 output. You select the correct setting with the INPUT control.

Another press on PRESETS displays:

7. **PROJECT EIGHT NORMAL:** This indication appears briefly to show you have quit SET-UP mode. The display automatically returns to the normal indication (see 1.).

All new settings are stored in memory and remain active until you change them.

After this the Project Eight functions normally, as does the INPUT control.

Input presets

For each input you may change the following settings: *name*, extra *boost* or *attenuation* and *polarity*.

To change the setting of one input you first select that input with the INPUT control. Then hold the PRESETS button depressed until the displays shows:

1. PROJECT EIGHT PRESETS

then release the button. The display now shows the setting of the selected input (e.g. 6):

2. 6 >AUX-2 <> +0 dB< AE +

The first field after the number is for the name, the second for the boost/attenuation and the third for the polarity.

Everything between >...< can be changed with the rotary controls.

With the INPUT control you may select a new name for the input from the table in the column to the right.

You may select any name for any input!

With the VOLUME control you may select the extra boost or attenuation between +9 dB and -9 dB. This way you can match the input sensitivity to the output level of the signal source. This will prevent the usually disturbing level differences you experience when changing from one input to another.

With the POLARITY button you may select the optimum polarity: '+' of '-'.

After changing the setting(s), you again press PRESETS and the displays shows:

3. PROJECT EIGHT NORMAL

after which the *new* settings for that input will be displayed (e.g.):

4. 6 CD-i AE - VOL OFF

You can now use the Project Eight normally.

All new settings will remain in memory.

You may change any setting at any time (e.g. when you have added a new component to your audio system).

Resetting the defaults

If you would like to return to the original factory (default) settings you should 'reset' the component.

Warning: This will erase all your personal settings!

So make a note of every setting as soon as you change it.

Hold the STANDBY button depressed and disconnect the mains cable from the mains outlet. While still holding the button depressed reconnect the mains cable.

Now release the STANDBY button and if all is well you will see all new defaults displayed (after CURRENT SETTINGS:) in the order of first eight names in the following table.

Table with input names

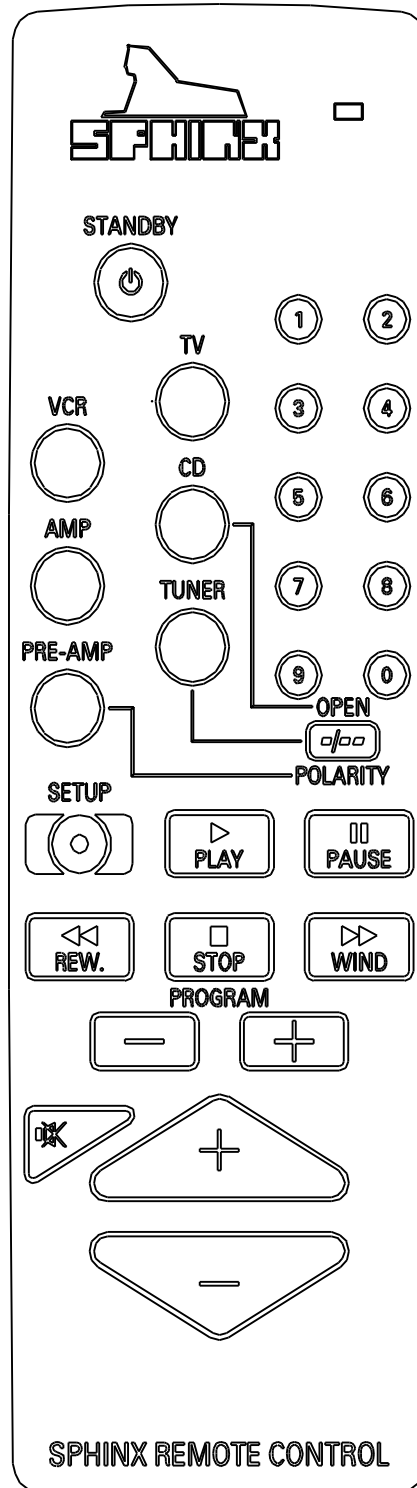
Name	Explanation
CD	CD player
SYMM-2	Balanced input 2
TUNER	Tuner
TAPE	Recorder
AUX-1	General line level input
AUX-2	General line level input
AUX-3	General line level input
AUX-4	General line level input
CD 1	CD player number 1
CD 2	CD player number 2
CD-i	CD-i player
CDPLAYER	Multi CD-player
CDR	CD-R recorder/player
CD-VIDEO	CD-V player
DAT	DAT recorder
DCC	DCC recorder
HDCCD	HDCCD player
LASERDISK	Laserdisc player
LINE	General line level input
LINE-1	General line level input
LINE-2	General line level input
MD	MD input (for turntable) *
PHONO	Signal from turntable *
PJ-1	<i>Project One</i>
PJ-3	<i>Project Three</i>
PJ-5	<i>Project Five</i>
PJ-7	<i>Project Seven</i>
PJ-9	<i>Project Nine</i>
PJ-20	<i>Project Twenty</i>
RADIO	Radio
SYMM-1	Balanced input 1
SURROUND	Surround decoder
TV SOUND	Stereo audio TV
VIDEO	Stereo audio VCR
*	<i>There is no real phono- or MD input, although it may be chosen as an option when ordering a Project Eight. These inputs can be used to connect a phono pre-pre-amp.</i>

SPHINX REMOTE CONTROL

This single Sphinx Remote Control lets you control all functions: not only of the Project Eight, but of all other Sphinx equipment.
Moreover: you may also use it to control other sorts of equipment (e.g. like TV and VCR) thanks to the 'learn' mode!
Only the following buttons and indications of the Remote apply to the Project Eight (the others will not function):

Buttons and LED indication

1. **LED:** As soon as you press a button this LED will blink *green*: the Remote is functioning.
When blinking *green/red*: batteries running low.
When blinking *red*: change batteries (see Batteries).
2. **STANDBY:** Use this button to switch the Project Eight to stand-by.
3. **PRE-AMP:** To select the pre-amp. All buttons pressed hereafter will only control the pre-amp functions.
4. **1 - 8:** To select inputs input 1 to 8 (*Note: 9 and 0 do not function*).
5. **POLARITY:** To change the polarity of the selected input from + to - (as indicated in the display).
6. **SET-UP:** To activate the SET-UP mode, pressing this button has the same effect as pressing the PRESETS button on the front panel.
7. **PROGRAM - / +:** After activating the SET-UP mode you can change the parameters with these two buttons: they have the same effect as the INPUT control on the front panel.
8. **MUTE:** Pressing this button mutes the outputs (temporarily) and you will not hear any sound. The display shows "MUTE". Another press on this button un-mutes the outputs.
9. **+** button: Pressing this big triangle-shaped button has the same effect as clockwise rotating the VOLUME control on the front panel. You will increase the volume. The VOL value in the display increases (up to max. 99).
10. **-** button: Pressing this big triangle-shaped button has the same effect as anti-clockwise rotating the VOLUME control on the front panel. You will decrease the volume. The VOL value in the display decreases (up to min. OFF).



Operation

The Sphinx Remote is used for several different models and can therefore transmit different control codes, depending on which model has been selected with the select buttons (3.).

Important: Always press the PRE-AMP button before you send a command (even if you only have one Sphinx component).

If not it is possible that although the Remote will send a signal (LED blinks) nothing happens because the transmitted signal is not 'recognised' by the component.

Indoors the Remote may be used up to a distance of 7 meter, provided there is no strong sunlight in the room and if you aim the Remote at the component.

Always aim the Remote straight at the front panel of the component, the maximum offset angle is 30°.

Selecting without switching

Suppose for instance that you would like to select the Tuner to Radio 4 without interrupting the CD playback.


In that case you momentarily depress (not longer than 0.5 sec) the 'TUNER' button and the '4' button. The same procedure is used for the other system components (TV, VCR).

Only when you depress the select button longer than 0.5 sec the system will select a different signal source (in our example you will then hear the Tuner playback).


To 'learn' the commands

This Sphinx Remote Control is not only pre-programmed for all Sphinx components, but you can also remotely control your TV and VCR. The Remote Control is able to 'learn' the commands from each of the specific remote controls. This will simplify the daily use of your audio/video system enormously.

The following paragraphs explain how you can 'teach' the Remote Control all those TV- and VCR-specific commands (but only after you have placed the batteries in the Remote Control!).

1. Place both the Sphinx Remote Control and the other remote (of TV or VCR) flat on a table, facing each other with a spacing of no more than 2 cm.
Note: Please do not do this in direct sunlight or under strong lighting conditions.
2. Simultaneously press the Remote's  and TV buttons.
The orange LED at the top right-hand of the Remote will light.

3. Momentarily press the first button on the Remote to be programmed.
The orange LED blinks.
4. Then keep the appropriate button on the other remote depressed until the LED becomes green. After releasing the button the LED will blink orange and you may program the next button.
5. If the LED is red, repeat steps 3 and 4. If it still remains red please refer to **"Remote does not 'learn'"**.
6. Repeat steps 3 and 4 until all necessary buttons are programmed.
Note: Do not forget to program the STANDBY button!
Note: Do not forget to program the TV button with the "ON"-command!
7. When you are finished press any two buttons on the Remote to return to Normal mode.
The LED will now be turned off.

Repeat steps 1 to 7 to program the remote of the VCR (in step 2. you should press the  and VCR buttons). When this is finished your Sphinx Remote Control is ready for use.


How to operate the Remote Control with the different Sphinx components will be explained in the corresponding User Manual of each component.

Changing a command

This is done in exactly the same way as described in the preceding paragraph TO LEARN, but you now only do it for a certain command and a certain system component.

Erasing all commands of one component

You want to erase the commands of one system component (for instance because you have bought a new TV).

Simultaneously depress the , Stand-by and component select button (in our example 'TV'). This enables the Remote Control to re-'learn' the commands of the new unit (see also TO LEARN...).

WARNING!:

If you depress one of the other component select buttons (than TV or VCR) you will erase the commands for a Sphinx audio component! You may only do this if you do not have that specific Sphinx model, but one from another brand and want to program the commands of its remote control.

The LED during Normal mode

- Blinks *green*: Remote sends a command.
- Blinks *green/red*: batteries are low, you have to change them within a few days.
- Blinks *red*: replace batteries immediately. Replace them within 30 minutes or else all information in memory will be erased!

The LED during 'Learn' mode

- Indicates *orange*: Remote is in 'Learn' mode.
- Blinks *orange*: Remote awaits the command to be 'learned' from the other remote control.
- Indicates *green*: the new command has been 'learned'.
- Indicates *red*: the new command has NOT been 'learned'.
- Blinks for 10 sec *red*, *yellow* and *green*: memory full, you cannot program new commands.
Note: You can still change any commands already programmed.

Batteries

The two batteries have a life span of approx. one year during normal use, but shorter when used more intensely.

Replacement batteries: 1.5 V, model AAA. You may also use rechargeable 1.5 V batteries.

Do not leave the battery compartment empty for more than 30 minutes or else all information in memory will be erased!

Note: Position the new batteries exactly as shown in the illustration at the bottom of the battery compartment, otherwise the memory might be erased completely!

Other things worth knowing...

The 'advanced user' will understand that you can program any function for any button! You are thus able to custom configure the Remote Control and use it for several pieces of equipment. The memory holds a maximum of 120 commands.

Warning: If you don't know exactly what you are doing, please consult your Sphinx dealer!

When encountering problems...

Remote Control does not work

Wrong component selected	Select the correct one
Wrong Remote mode ('Learn' instead of Normal)	Select correct mode
Wrong command programmed	Reprogram with Learn mode
Distance to component exceeds 7 m	Use Remote at closer range
Angle between Remote and component exceeds $\pm 30^\circ$	Decrease angle
Sensor window on front dirty	Clean window
Batteries empty or incorrectly placed	use new batteries or replace the old correctly
Strong (sun)light in room	Shade off
Component is not switched on (!)	Switch it on
Memory erased	Reprogram completely

Remote Control does not 'learn'

Wrong Remote mode (Normal instead of 'Learn')	Select correct mode
Distance between two remotes exceeds 2 cm	Place them closer together
Signal to be learned is not infrared	'Learning' only possible with infrared systems
Sensor window on front dirty	Clean window
Batteries of remote(s) empty	Use new batteries
Strong (sun)light hits sensor window	Shade off

Component reacts differently than expected or not at all

Wrong component selected	Select the correct one
Wrong command programmed	Reprogram with Learn mode
Component or Remote does not function	Check component with it's original remote
Batteries of remote empty	Use new batteries

CARE AND MAINTENANCE

Clean the exterior with a soft, lint-free, anti-static cloth. Do not use force while wiping the surface. To remove difficult stains use a few drops of detergent on a moist cloth, sweep carefully and wipe dry afterwards.

If some scratching occurs, please first consult your Sphinx dealer. He can give you advice about possible solutions.

Do not use polishing or cleaning agents: they may damage the sensitive acrylic finish.

Do not use aerosol cleaning agents.
Most contain solvents which might actively react and damage the acrylic finish.

TECHNICAL SPECIFICATIONS

Bandwidth	0 - 500,000 Hz (+0/-3 dB)
Phase response error	<0.5°
Gain	20 dB max.
THD+N (IHF-A)	<0.008% (2nd harm., @ 100 kHz and 6 V into 600 Ω) <0.0015% (2nd harm., 10 - 20,000 Hz and 6 V into 600 Ω)
IMD	<0.0015%
S/N ratio (IHF-A)	>110 dB
Channel separation	>110 Db
Inputs	2x XLR balanced 6x WBT cinch unbalanced 0.16 V (-18 dBV) XLR: 10 kΩ / cinch: 50 kΩ adjustable between -9 dB and +9 dB
level, nominal (for 1 V output)	
impedance	
sensitivity (programmable for each input)	
Outputs	2x XLR balanced 1x WBT cinch unbalanced 1x cinch Tape 10 V max. (20 dBV) (1 - 100,000 Hz, THD <0.001%) <10 Ω
level	
impedance	
Volume control	relay-controlled in steps of 1 dB range 99 dB less than 0.01 dB
channel imbalance	
Sphinx Control	3x optical OUT-1: 1 sec delayed OUT-2: normal OUT-3: programmable via Auto On
Remote control	full function
Mechanical decoupling of housings	Transrotor absorbing 'pucks'
Power supply	external, in completely separate housing
Supply capacitance	148,000 µF total
Power consumption	50 W
Dimensions (h x w x d)	68 x 482 x 328 mm (one housing only)
Weight	11 kg

This unit conforms to the EMC interference regulations from the EU and to the CE standards.
This unit complies with safety regulation VDE 0860 and thus with international safety regulation IEC 65.

Technical specifications can be changed by SPHINX without prior notice if technical developments make this necessary.

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