

## IR-SCAN



### General

The IR scanner is used to train and save IR sequences in the IR-LINK-8 module. With the IR scanner the IR remotes of the one which can be steered media devices like video recorder, CD player, DVD player, cassette deck and so on. These informations can be saved in a table of the media module (IR-LINK-8) and can be used for steering via the ISYGLT BUS system.

In order to be able to work with the IR scanner the software IR-scan is used. These can to be downloaded as free of charge on the homepage [www.seebacher.de](http://www.seebacher.de).

### Operation

For teaching the IR remotes the IR scanner is connected to the PC via a serial interface (9pole cable 1:1 pin->bush). The IR scanner must be connected either with a power supply or an inserted battery. Now the software IR-scan will be started on the PC. You will get an empty project.

video recorder: play, stop, pause, <<und>>.

As a first step you must set, which functions are used. Here it decides whether only the necessary functions or all functions of the scanable remote maintenance are to be stored. In practice it worked satisfactorily to save only the needed functions. That are e.g. at a

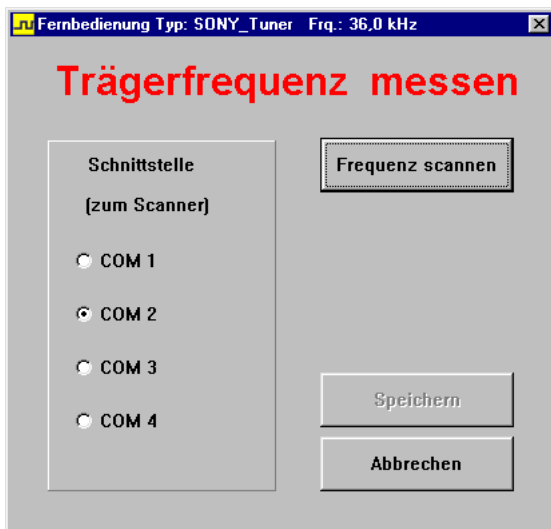
When the functions are fixed, the type of the first device will be set in the first frame and the function aside. For registering further devices through „doubleclicks“ a selection from devices already put on can do to be opened and one of it taken over. The continuous channel numbers are indicated in the column „button“. These are used for programming the master with the ProgrammDesigner.

Taste	Daten	Typ	Funktion
1	leer	SONY_Tuner	POWER
2	leer		
3	leer		
4	leer		
5	leer		
6	leer		
7	leer		
8	leer		
9	leer		
10	leer		
11	leer		
12	leer		
13	leer		
14	leer		

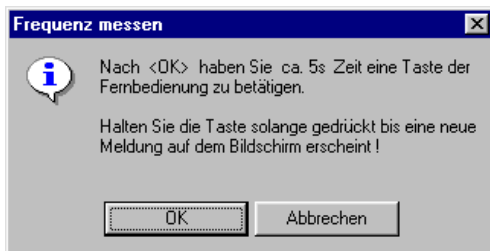
Typ: SONY\_Tuner    Funktion:    Freq.: 36,0kHz

After all the devices and functions were registered the training of the carrier frequency of the first device. Hereto you click with the right mouse button in the

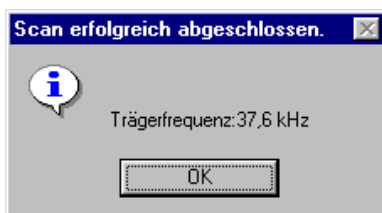
line of the respective device. Now a selection window appears, in that the point „frequency train“ must be selected.



Please set here the interface where the IR-scanner was connected. After the actuation of the button „frequency scan“ the following window appears.



If the IR-scanner was connected correctly and the remote control was activated you will get the following notification.

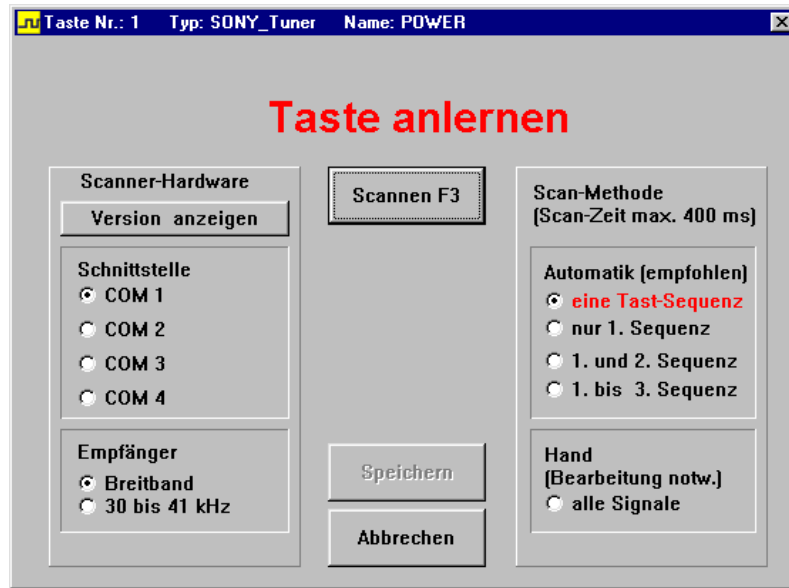


This report will only be verified with OK and is saved for all functions of this device type. If further devices

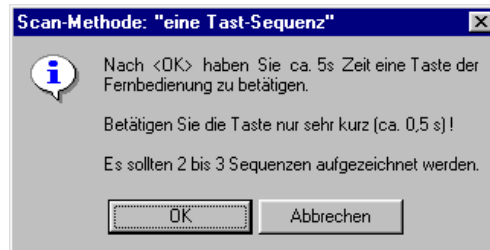
should be along-stored, they must be saved like the previous described ones.

The scanings of the intrinsic functions will be done also by selection of the menu point „train button

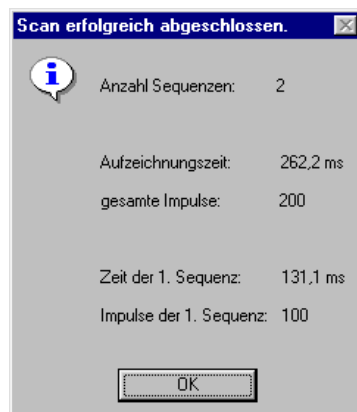
code“ with the right mouse button in the line of the respective function.



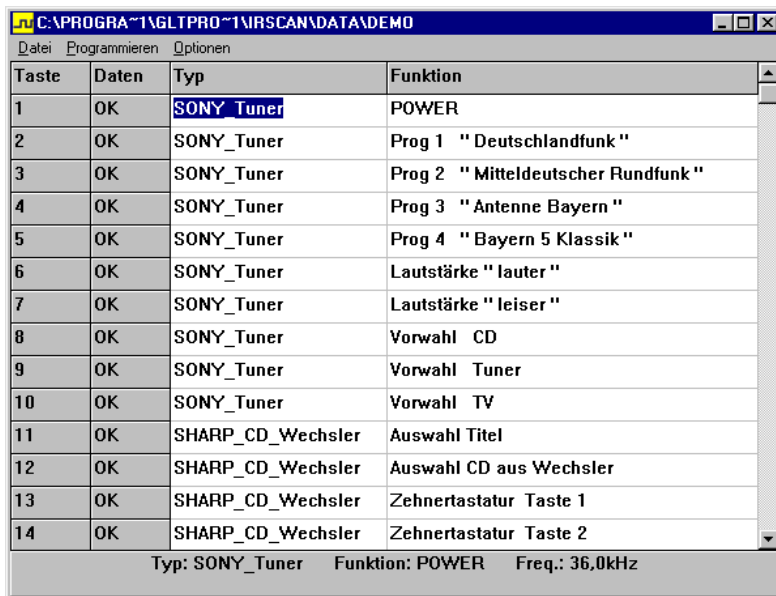
Only the button „scan“ will be actuated in normal operation.



If the sequences were recorded successfully, it appears the e.g. following window. (If not please replicate this point):



After hitting with „OK“ the functions can be saved, scanned new or cancel. If you selected save, the display in the field datas changes from „empty“ to „OK“.

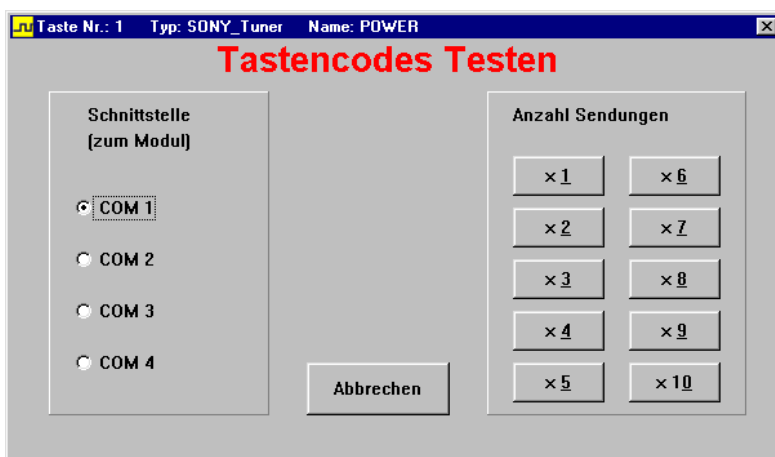


Taste	Daten	Typ	Funktion
1	OK	SONY_Tuner	POWER
2	OK	SONY_Tuner	Prog 1 " Deutschlandfunk "
3	OK	SONY_Tuner	Prog 2 " Mitteldeutscher Rundfunk "
4	OK	SONY_Tuner	Prog 3 " Antenne Bayern "
5	OK	SONY_Tuner	Prog 4 " Bayern 5 Klassik "
6	OK	SONY_Tuner	Lautstärke " lauter "
7	OK	SONY_Tuner	Lautstärke " leiser "
8	OK	SONY_Tuner	Vorwahl CD
9	OK	SONY_Tuner	Vorwahl Tuner
10	OK	SONY_Tuner	Vorwahl TV
11	OK	SHARP_CD_Wechsler	Auswahl Titel
12	OK	SHARP_CD_Wechsler	Auswahl CD aus Wechsler
13	OK	SHARP_CD_Wechsler	Zehnertastatur Taste 1
14	OK	SHARP_CD_Wechsler	Zehnertastatur Taste 2

Typ: SONY\_Tuner    Funktion: POWER    Freq.: 36,0kHz

After all the functions were trained (scanned) and the project was saved it is recommended at any case to test the trained functions. Hereto the IR-LINK-8 module must be connected to the IR scanner and the project datas must be broadcasted. >>program-

ming >> select interface and confirm with ok. If the program has been transmitted error free, you have to click with the right mouse button on the function, which must be checked. With the selection „function test“ the following window appears:



Taste Nr.: 1    Typ: SONY\_Tuner    Name: POWER

### Tastencodes Testen

**Schnittstelle [zum Modul]**

COM 1

COM 2

COM 3

COM 4

**Anzahl Sendungen**

Provided that the project was transmitted into the IR-Link-8 module and was connected correctly, min. one sending diode was connected with the IR-Link-8 module and has visual contact to functional device which can be checked.

By hitting the button „count sendings x1...x10“ you can check, whether and when the functions will be done safely. For example you can establish, if at a CD player, to page up of music titles, 1 or 2 sendings are necessary...

If against expectation anything doesn't work, you must train the function ones again (possibly press button shorter or longer...). With the function „train button“ it is possible to test other set ups to obtain the optimal result.

For information and downstream operations (requires a certain experience) it is possible, to present each sequence and to reoperation manual



With the functions „zoom“ and „start flank“ or „end point“ are changes possible.

#### All further functions would be to be mentioned:

- import button-code  
here it is possible to copy the functions of an already trained project (device) into a momentarily opened project.  
>> in the respective line press the right mouse button and select the menu point „import button code“  
>> select the project and fill in the respective function by double-click.
- print project list  
>> file >> print
- edit frequency  
>> option >> edit frequency  
here it is possible to set the carrier frequency manually

Typ	Frequenz (kHz)
Radiotone	36,0
SHARP_CD_Wechsler	36,0
SONY	40,0
SONY_Tuner	36,0
TELEFUNKEN	32,0

OK

- erase remote control
  - >> option >> erase frequency
  - here it is possible to erase a device out of the project

You can already infer from this short description, how simple the handling with this equipment is and which possibilities hereby opens.

All infrared of remote controlable devices can be addressed and served now also by the ISYGLT-BUS system directly. Complex conference room plants upon automatic operational sequence are hereby simple to realize.

Example:

Video presentation:

- beamer drives out of the ceiling, switches on and preset a video
- screen departs
- obfuscation departs
- light dimms at the scene „presentation“
- video recorder will be activated and time delayed switched to play.
- ...

End of the presentation:

- beamer switches off and will, after a cooling-off time, drive back in the ceiling again
- screen drives up
- obfuscation drives up
- light dims at the scene „meeting“
- video recorder switches to stop and than off
- ...

**Hereby you need more hands!!**

**Our system assumes that for you!!**

#### Connections

- 1 connection for the operating voltage (12 to 24V AC/DC)
- 1 COM connection (bush) for PC or notebook
- 1 COM connection (pin) for the media module IR-Link

#### Design

- plastic table casing

#### Technical data

Type	IR-SCAN
Art. Nr.	80087210
Operating voltage	12-24V AC/DC with optionally plug-on power supply, or batteries 4 x Mignon 1,5V (LR6 AA)
Current consumption	100mA
RS-232 (bush)	RS-232 from PC
RS-232 (pin)	RS-232 for IR-LINK-8 module
Dimenions	LxBxH 158x93x45mm
Weight	260g without batteries
Operating temperature	-10...+50°C
Storate temperature	-25...+70°C
Humidity	0 ...85 % r.F. non condensing
Protection grade	IP41
ESD immunity	Category 3 according to IEC-1000-4-2
EMV immunity	Use in typical industrial enviroment. Category 3 according to IEC-1000-4-4 (Test was carried out within a whole system)
CE sign	yes

**View**

