IR-SlaveE

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	TITLE : IR-SlaveE		
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Chapter 1

IR-SlaveE

1.1 IR-SlaveE.guide

```
                  IR-Slave 1.31

   (C) 1994 by Jürgen Frank und Michael Watzl

   The IR-Slave is freely distributable in the unregistered version.
The schematics for the hardare and the layout may not be freely
distributed.

   Please read the file "licence" located in the same drawer.

   Note: The IR-Slave is shareware. To use the IR-Slave you need the
hardware. See
                Hardware
                . If you want to use the IR-Slave you have to
register. See
                Registering
                .

   You use the IR-Slave on your own risk. No warranty can be given.



                 What Is IR-Slave

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1.2 IR-SlaveE.guide/What Is IR-Slave

```
                What Is IR-Slave
****************

   With the IR-Slave you can control your Amiga via any remote control!

   Therefore you can learn different infra-red signals of your remote
control (e.g. the remote control of your tv set) and assign different
commands/scripts to them.

   Then, whenever the IR-Slave hardware detects a infra red signal which
was been learned before, the assigned command/script will be executed.
You can for example show a picture when pressing the power key on a
remote control or start an arexx-script etc.

   The IR-Slave can also do its work hidden, because it is a commodity.
Up to 254 different commands can be learned.

   See
                Hardware
                .
```

1.3 IR-SlaveE.guide/Installation

```
Installation
************

   Requirements:

   * Kickstart 2.04

   * Workbench 2.1 or higher If you want to use the locale.library

   Installation:

   The installation is very easy. No additional libraries are needed -
no assigns must be done.

   The only thing which should be noticed is that the IR-Slave should
be copied to a directory which is in the path of the workbench (e.g.
sys:utilities/). Then the projects can be started from anywhere with a
doubleclick.

   For users of workbench 2.1 or higher:

   If you want to install the german catalog you have to copy
IR-Slave.catalog to
Locale:catalogs/deutsch/ or to catalogs/deutsch/ in the same directory
of the IR-Slave.

   If you want to install the german catalog it Locale: you have to
```

```
type:

     1> cd IR-Slave_Registered:
     1> copy catalogs/deutsch/ir-slave.catalog to Locale:catalogs/deutsch/
```

1.4 IR-SlaveE.guide/How To Use

```
                How To Use
**********


                 Menus

                 Gadgets

                 Tooltypes

                 ARexx-Port
```

1.5 IR-SlaveE.guide/Menus

```
Menus
=====

Project
-------

New
     Deletes all the commands. A new project can be edited.

Load...
     Loads an already existing project.

Save
     Saves the actually edited project with the current name.

Save as...
     Saves the actually edited project. The path/name can be given via
     a filerequester.

Info...
     Gives some information about the authors and the project.

Hide
     Closes the GUI of the IR-Slave. Although the IR-Slave stays
     active. To reopen the GUI use commodities exchange.

Quit
     Quits the IR-Slave.
```

```
Edit
----

New
     Creates a new ir-command-entry. In the "name"-gadget you can name
     this function - like "Tv set, power".

     In the action-gadget you can type a command to be executed when
     the specific ir signal is recognized. This line will be
     interpreted like a command line in the shell.

Cut
     The current entry will be cut to an internal buffer and can be
     inserted anywhere (with paste).

Copy
     Does the same as cut - the current entry stays in the list.

Paste
     The entry in the internal buffer will be inserted in the command
     list.

Sort
     The command list will be sorted.
```

1.6 IR-SlaveE.guide/Gadgets

```
                Gadgets
=======

Commands
--------

List
     Here, all the commands are listed by name. A '-' in front of the
     name means, that no ir-code is learned for this command.

Learn
     Use this gadget to assign an ir-code to an entry in the command
     list. Whenever the ir-signal is recognized by the hardware (and
     watching is enabled) the relating command will be executed.  See

                IR-Learning
                .

     After learning, the received ir data will be displayed.

Name
     Here you can type any name - this will help you to remember which
     command is assigned to which ir code.

Action/Test
     In this string gadget you can type a command line which will be
```

```
     executed whenever the specific infra red signal is recognized by
     the IR-Slave hardware (or by pressing the test gadget). This
     string will be interpreted as a command line typed in a shell.

Configuration
-------------

Protocol
     In this gadget you can type a file name for the protocol file of
     received ir signals.

Tolerance
     The higher this value is the exacter the received ir signal and
     the lerned signal must match. Values between 5 and 8 should work
     fine.

Code
     The half code is an optimized way to store the ir-data. This
     format is faster but does not work with all remote controls. So
     you should simply try if it works.

Watching
     If "watching" is switched on, the ir-slave recognizes ir signals.
     This works only when all ir-commands are learned.

Rate
     A high rate means that the hardware is checked very often for
     incoming ir signals. A low rate means that the hardware is not
     checked so often - uses less cpu power.
```

1.7 IR-SlaveE.guide/Tooltypes

```
                Tooltypes
=========

   If you start the ir slave by doubleclick the tooltypes of its icon
will be used. If you doubleclick on a project (or shift doubleclick it)
the tooltypes of the project will be used.

   If you start the ir slave from the shell, you can use the same
arguments as the tooltypes.
E.g. 1> IR-Slave demos/demo1.slaved CX_POPUP=NO CX_POPKEY=f10

   The following tooltypes are supported:

CX_POPUP=
    YES
          open GUI on startup

    NO
          start hidden

CX_POPKEY=
```

```
     Key on which the GUI should pop up. e.g. control s default ist
     lalt esc

PUBSCREEN=
     Name of a public screen which should be prefered for the GUI.

LEFT=
     Left edge of the gui window.

TOP=
     Top edge of the gui window.

RATE=
     See
                Gadgets
                .

TOLERANCE=
     See
                Gadgets
                , and
                IR-Learning
                .

OUTPUT=
     Protocol file. See
                Gadgets
                , and
                IR-Learning
                .

PROTOCOL=
    YES
          Echo all the received signals and report executed commands.

    NO
          Do create a log flie.

PROJECT=
     Only in the IR-Slave icon: Datafile which should be loaded on
     startup.
```

1.8 IR-SlaveE.guide/ARexx-Port

```
ARexx-Port
==========

   The IR-Slave may be programmed or controled by other applications
via the ARexx interface.

   The portname of the IR-Slave is IRSlave_rexx.

     COMMAND        PARAMETERS        FUNCTION
```

```
    ---------------------------------------------------------------------
    SL_QUIT         -                   quits the IR-Slave
    SL_SHOW         -                   opens the gui
    SL_HIDE         -                   hides the gui
    SL_MOVE         x y                 moves the gui to x/y
    SL_WATCHON      -                   switches watch mode on
    SL_WATCHOFF     -                   swtiches watch mode off
    SL_TOLERANCE    -                   returns actual tolerance in result
                    1-15                sets tolerance

    SL_RATE         -                   returns actual rate
                    1-16                sets rate
                                        (1 = 100%, 16 = 0%)
    SL_CODETYPE     -                   returns code type
                    0 or 1              sets code type
                                        (0 = half code, 1 = full code)
    SL_PROTOCOL     -                   returns protocol yes/no (1/0)
                    0 or 1              sets protocol option
    SL_OUTPUT       -                   returns the protcol file name
                    file name           sets the new protocol file name
    SL_LOAD         file name           load project (RC = 5 if failed)
    SL_SAVE         file name           save project (RC = 5 if failed)
    SL_NEW          -                   new project
    SL_ENTRY        -                   new entry
    SL_NAME         number              returns the name of entry 'number'
                    number new_name     sets the name for entry 'number'
    SL_ACTION       number              returns the actiosn string for entry number
                    number new_action   sets the action string for entry number
    SL_LEARN        number              starts learning for entry number
    SL_TEST         number              executes the action string of entry number
    SL_INFORM       text                writes text to the status bar
```

1.9 IR-SlaveE.guide/Hardware

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                Hardware
********

Gerneral Information
====================

   The hardware consists of a integrated receiver unit and some more
electrical stuff. The hardware is connected to the joystickport. The
hardware can only be ordered by the authors - See
                Registering
                . You may
order either documents for the hardware, the construction kit or the
complete hardware.

   The hardware does not need a PCB or SMD-parts.

   The hardware works with all remote controls which have a pulse
frequency between 30kHz and 40kHz and with a minimum impulse length of
20$\mathrm{\mu}$s (Philips, Blaupunkt, Panasonic etc.).  If you want to know if
your remote control will work with the ir-slave simply contact one of
```

the authors (Jürgen Frank).

   The range of the ir slave is about 10m depending on your remote control.

   The IR-Slave is compatible to the IR-Master (also by Jürgen Frank & Michael Watzl). They can be used both on a Y-Adapter.

Trouble shooting
================

   If your hardware won't work after it is finished so this may have one of the following reasons:

Error in the construction
     Check cable, connectors and components

Receiver to near to an interfearing field like a monitor, bright light, etc.
     Place the received to a sheltered place.

Amiga learns badly or not at all
     Batteries in the remote control are too weak

1.10 IR-SlaveE.guide/IR-Learning

IR-Learning
****

  1. Choose an entry in the list

  2. Click on "learn"
     ==> the pointer will be frozen

  3. Aim with your remote control on the sensor of the ir slave hardware. The distance should be about the half of the distance in the later use. So if you normally lie on your couch 4 meters away from your amiga - you shoul learn the commands with a distance of 2 meters.

  4. Press the button on the remote control and hold it down until the ir slave has recognized the signal. If you press the right mouse button the learn action will be cancelled.

   Important notes

   * It is possible that the ir-slave will not react on your actions the first time. In this case you should test the ir-slave with other remote controls an try other values for tolerance and rate.

   * Successful learning depends on the distance. So if it does not work fine you should try relearning in different distances between 1 and 2 meters.

```
   * If the batteries of the remote control are weak the ir signal is
     not very exact. This can lead to a incomplete learned ir signal.
     The ir slave won't recognize the signals correctly.

     In such a case you should use new batteries.

   If you own a tool by Akai, Blaupunkt, Fisher, Technics, Philips or
Sony you can be sure that they will work with the ir slave.
```

1.11 IR-SlaveE.guide/Appendix

```
                Anhang
******



                 Support & Bugreports

                 Registering

                 History
```

1.12 IR-SlaveE.guide/Support & Bugreports

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Support & Bugreports
********************

   New versions of the ir slave software can be downloaded in JESOLO-BBS

    Jesolo, BBS of the "Amiga Freunde Ries"
    24H online
    2400-19200 Baud, 8N1
    Tel: +49 906 28851

    Login: GAST

   The latest revision of the ir slave can be found in:

   /PD_POOL/PD-Anwendungen/ANW-Sonstiges/

   Or you can send a disk + stamps with a little letter (demanding a
software update) to:

         Michael Watzl           or  Juergen Frank
         Konradstr. 11               Wittelsbacherweg 7
         86609 Donauwoerth           86609 Donauwoerth
         Germany                     Germany
         Tel.: +49 906 5834          Tel: +49 906 1057

   Bugreports & suggestions can also be sendt to these addresses (and
```

they are welcome!).

If you have questions to the hardware contact Juergen Frank. For quiestions to the software and the gui contact Michael Watzl.

1.13 IR-SlaveE.guide/Registering

Registering
****

REGISTRATION-FORM:

[FIRM:] _____

NAME: _____

STEET: _____

ZIP: _____

CITY: _____

COUNTRY: _____

TEL: _____

I want to become registered user of the ir-slave, therefore

- o I enclose a check
  (european: euro cheque
  others : drawn on a german bank)

- o transfer payment to Michael Watzl:
  Raiffeisen-Volksbank Donauwoerth eG
  86609 Donauwoerth
  Acc: 4185455 Bank code: 722 901 00
  for payment reference use: "IR-SLAVE REGISTRATION"

Please send me:

- o newest version + documents for the hardware
  for the price of $15

- o newset version of this package + construction kit
  for the price of: $28 / DM 45

- o newset version of this package + complete hardware
  for the price of: $43 / DM 65

_____ _____

date, locality sign

1.14 IR-SlaveE.guide/History

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History
*******

     V1.0        first Release

     V1.1        localisation + german catalogs

     V1.2        bug fixes

     V1.3        ARexx-Port added
                 Hardware changed (compatible)
                 recognition of IR-Signals is now VERY VERY GOOD.

     V1.31       fixed little bug in protocol function
```

1.15 IR-SlaveE.guide/Index

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                Index
*****


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