IR-Slave

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COLLABORATORS			
	TITLE : IR-Slave		
ACTION	*NAME*	*DATE*	*SIGNATURE*
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REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

IR-Slave

1.1 main

```
IR-Slave 1.0

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The IR-Slave is freely distributable in the unregistered
version.

Note: The IR-Slave is shareware. To use the IR-Slave you
need the hardware (see chapter 5). If you want to use the
IR-Slave you have to register.

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

1.2 contents

```
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```

1.3 1.

```
        1.      What is IR-Slave
        ========================
```

Whith 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 also Chapter 5 - The Hardware.

1.4 2.

```
        2.      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.

1.5   3.1

```
3.      Die Menus
=================
```

```
3.1     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.

1.6   3.2

```
3.2     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.

1.7 4.1.1

        4.   The Gadgets
        ===================

        4.1   Commands

        4.1.1   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.

1.8 4.1.2

        4.1.2   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.

        After learning, the received ir data will be displayed.

1.9 4.1.3

        4.1.3   Name

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

1.10 4.1.4

        4.1.4   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.
```

1.11 4.2.1

```
4.2      Configuration
--------------------

4.2.1    Protocol

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

1.12 4.2.2

```
4.2.2    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.
```

1.13 4.2.3

```
4.2.3    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.
```

1.14 4.2.4

```
4.2.4    Watching

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

1.15 4.2.5

```
4.2.5    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.
```

1.16 5.1

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      5. The Hardware
      ===============

      5.1 Gerneral Information
      ------------------------
```

The hardware consists of a receiver unit which is half SMD
(surface mounted device). The hw 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 without PCB, the contruction kit with PCB or the complete
hardware.

If you want to order a construction kit you should have some
experience with this electronical stuff! Although you need not
be a profi...

The hardware works with all remote controls which have a
pulse frequency between 30 kHz and 40 kHz 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 4-6m depending on your
remote control.

The ir-slave is compatible to the ir-master (also by Jürgen
Frank & Michael Watzl) and can be used both on a Y-adapter.

1.17 5.2

```
      5.2 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   -> Put your receiver to another
  interfearing field like   place...
  a monitor, bright light, etc.

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

1.18 6.

```
    6.      Learning ir commands
    ============================
```

- Choose an entry in the list

- Click on "learn"
    -> the pointer will be frozen

- 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.

- 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.

1.19 7.

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    7.      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> IRslave CX_POPUP=NO CX_POPKEY=f10 demo1.slaved

    The following tooltypes are supported:

```
        CX_POPUP=        "YES" or "NO"
                         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 chapter 4.2
        TOLERANCE=

        OUTPUT=          Protocol file, see chapter 4.2
        PROTOCOL=        YES|NO          see chapter 4.2

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

1.20 8.

```
        8.      Authors/Support
        =======================


        The ir slave paket is © 1994 by Juergen Frank & Michael Watzl
        It is "freely distributable" as long as no profit is made with
        distributing..
```

NO WARRANTY FOR ANY DAMAGE CAN BE GIVEN – YOU USE IRSLAVE AT YOUR OWN RISK.

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

    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
    Konradstr. 11
    86609 Donauwörth
    Germany
    Tel.: +49 906 5834
```

```
    Fax : +49 906 28851
```

Bugreports & suggestions can also be sendt to this address (and they are
welcome!).

If you have questions to the hardware contact

```
    Juergen Frank
    Wittelsbacherweg 7
    86609 Donauwoerth
    Germany
    Tel.: +49 906 1057
```

1.21   Registrieren..

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 / DM 25

    o newset version of this package + hardware pieces (w/o PCB)
      for the price of: $25 / DM 40

    o newset version of this package + hardware pieces (incl. PCB)
      for the price of: $28 / DM 45
```

o newset version of this package + complete hardware
  for the price of: $40 / DM 60

_____   _____
    date, locality   sign