

# **LControl**

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LANC/Control-L Interface for Amiga Computers  
Version 1.41

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## 1 What is LControl

LControl is a program to control video cameras via a special control hardware. The cameras must have a control-L or LANC interface (Sony kompatibel).

The hardware is very easy to construct. Schematics, construction kit or the complete hardware will be sendt to you after registering, See Appendix B [Registering], page 8.

The control hardware is connected to the parralel port. Two cameras can be connected to the hardware. You can switch between the two cameras via the software.

LControl is a commodity and it has an arexx port. Therefore LControl can work in the background and your camera can be "programmed" via arexx.

See also Appendix C [IR-Master-Support], page 9.

## 2 Installation

Requirements:

- Kickstart 2.04 or better
- Workbench 2.04 or better

1. Copy 'LControl' into any drawer you want.
2. Copy 'LANC.library' to 'LIBS:'
3. If you use WB2.1 or better: You do not need to install an english catalog - it is built in. For other languages (so far, only german is supported):

Copy the file 'lcontrol.catalog' from catalogs/<your language> to LOCALE:catalogs/<your language>.

When you copy LControl to the 'WBStartup'-drawer, you should also add the DONOTWAIT tooltype.

## 3 How To Use

### 3.1 Menus

#### 3.1.1 Project

*About...* Some information about the authors and the program

*Hide* Closes the LControl window. However LControl stays active.

*Fix position*

Snapshots the current position. This piece of information is saved in the tooltypes, See Section 3.4 [Tooltypes], page 6.

*Quit* Quits LControl

#### 3.1.2 Special

*Reset counter*

Resets the counter of the camera.

*Zoom in* Sends "Zoom In" to the camera

*Zoom out* Sends "Zoom Out" to the camera

*Record* Sends "Record" to the camera.

*Eject* Sends "Eject" to the camera.

*Gotomode*

In the submenu you can select one of these commands.

0 Play

1 Stop

2 Pause

3 Record

The selected command is sent when a successful "goto" was made.

*Goto* You may enter a counter. Then the tape is winded to this position an the command selected with gotomode is sent.

### 3.1.3 Special-II

Note:

All the commands in this menu refer directly to standard camera commands. Please look up their meaning in your camera's user manual.

## 3.2 Gadgets

<i>Swap</i>	Swaps to the other camera
<i>Play</i>	Sends a "Play"-command to the camera
<i>Stop</i>	Sends a "Stop"-command to the camera
<i>Pause</i>	Sends a "Pause"-command to the camera
<i>FREW</i>	Sends a "fast rewind" command to the camera
<i>FFOR</i>	Sends a "fast forward" to the camera
<i>PREW</i>	Sends a "picture rewind" to the camera
<i>PFOR</i>	Sends a "picture forward" to the camera
--	Sends a "slow motion rewind" to the camera
-	Sends a "single pic back" to the camera
+	Sends a "singse pic forward" to the camera
++	Sends a "slow motion forward" to the camera

## 3.3 ARexx Port

The name of the arexx port is 'LControl\_rexx'

So far, the following commands are supported:

'LC_QUIT'	Quits LControl
'LC_SHOW'	Opens the LControl window
'LC_HIDE'	Closes the LControl window

'LC\_ENABLE'  
Opens the LControl window and opens the arexx port (if closed)

'LC\_DISABLE'  
Closes the LControl window and the arexx port

'LC\_PLAY'

'LC\_STOP'

'LC\_PAUSE'

'LC\_FREW'

'LC\_FFOR'

'LC\_PREW'

'LC\_PFOR'

'LC\_PLUS'

'LC\_MINUS'

'LC\_SLOW'

'LC\_RSLOW'

'LC\_GETCOUNTER'  
the current counter will be returned in RESULT

'LC\_GETSTATUS'  
returns the current status in RESULT:  
NO CAMERA  
If no camera/hardware is connected  
CAMERA0: <action>  
Slot 1: active camera is connected.  
CAMERA1: <action>  
Slot 2: active camera is connected.

'LC\_RESET'  
resets the counter of the camera

'LC\_SWAP' swaps to the other camera

'LC\_ZOOMIN'  
Zooms in one step.

'LC\_ZOOMOUT'  
Zooms out one step.

'LC\_RECORD'  
Sends Record to the camera.

'LC\_EJECT'  
Sends Eject to the camera.

'LC\_GOTOMODE'

Expects a number (0,1,2 or 3) as parameter. See Section 3.1.3 [Menus], page 3.

'LC\_GOTO' Expects a counter as parameter. See Section 3.1.3 [Menus], page 3.

'LC\_INSAUDIO'

'LC\_INSVIDEO'

'LC\_ASSEMBLE'

'LC\_INSA\_LON'

'LC\_INSA\_LOFF'

'LC\_INSA\_RON'

'LC\_INSA\_ROFF'

'LC\_INSV\_ON'

'LC\_INSV\_OFF'

'LC\_ASSEMBLEON'

'LC\_ASSEMBLEOFF'

'LC\_RAWCOMMAND'

This command directly sends data to the camera.

**WARNING:**Use this command only when you really know what you are doing!

Expects hexadecimal bytes as parameters. Example:

```
LC_Rawcommand ff 10 aa
```

This will send 255, 16 and 170 to your camera.

#### Basic VTR-commands

hex	command
00	CH-1/1
40	CH-2/2
20	CH-3/3
60	CH-4/4
10	CH-5/5
50	CH-6/6
30	CH-7/7
70	CH-8/8
08	CH-9/9
48	CH-10/10
28	CH-11
68	CH-12/CH/ENTER/#
18	CH-13/1-
58	CH-14/2-
38	CH-15
78	CH-16
04	CH-HIGH
44	CH-LOW
14	X3 OR 2X
54	POWER ON/OFF

22	SLOW 2
62	SLOW 3
32	HIGH DOUBLE SPEED
2A	ANT-SW
5A	ANT-VTR
3A	POWER ON
7A	POWER OFF
06	REVERSE
46	FORWARD
09	INDEX WRITE
49	INDEX ERASE
65	INDEX

### 3.4 Tooltypes

The following tooltypes are recognized:

**CX\_POPUP=**

"YES" or "NO"

YES        Pop window up on startup

NO         Start hidden

**CX\_POPKEY=**

Hotkey for LControl E.g.: `1shift f10`  $\mapsto$  left shift-key + F10

Default: `1command esc`.

**LEFT=xxx**

Leftedge of the window

**TOP=yyy** Topedge of the window

**PUBSCREEN=name**

If specified, LControl tries to open its gui on the pbulicscreen named '**name**'.

**GOTOMODE=**

Expects a decimal number (0,1,2 or 3) as parameter. See Section 3.1.3 [Menus], page 3, gotomode. You can specify the default command which should be sent when positioning with the goto-function.

**LIBNAME=**

This should always be set to "LANC". This is for further expansion (Rapid, Panasonic).

## Appendix A Support & Bugreports

### A.1 Support

You may simply send a disk and enough stamps to one of the following addresses to get the newest software version of LControl:

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

or Jürgen Frank  
Wittelsbacherweg 7  
86609 Donauwörth  
Tel.: +49 906 1057  
Germany

### A.2 Bugreports

Bugreports or suggestions are welcome and should be sent to one of the addresses above mentioned.

Please include a brief description of your computer and its configuration — this will help us to reproduce the bugs.

## Appendix B Registering

### REGISTRATION FORM (1.41)

NAME: -----

STREET: -----

ZIP-CODE: ----- CITY: -----

COUNTRY: ----- TEL: -----

I want to become registered user of LControl, therefore I

- o enclose a cheque  
   (europe: euro cheque  
   others: drawn on a german bank)
- o transfer payment to  
   Raiffeisen-Volksbank Donauwoerth eG  
   86609 Donauwoerth  
   Acc: 4185455   Bank code: 722 901 00  
   Comment"LCONTROL REGISTRIERUNG"

Please send me:

- o Latest version + scematics for the hardware  
   for \$12 / DM 20
- o Latest version + construction kit  
   for \$18 / DM 30
- o Latest version + complete Hardware  
   for \$25 / DM 40

Optional Hardware:

- [for the construction kit]
- o Two camera set [allows to connect two cameras and  
   switch between them]  
   plus \$3 / DM 5

- [for complete hardware]
- o Two camera set [allows to connect two cameras and  
   switch between them]  
   plus \$6 / DM 10

-----  
 locality, date

-----  
 sign

## Appendix C IR-Master-Support

Taken from "IR-Master.guide":

"The IR-Master project consists of two software components and a control hardware, which is connected to the joystick port of your Amiga.

At first you start editing your *virtual* remote control with the IR-Editor... This one is saved to disk then. Afterwards you activate the IR-Runner...

Your edited remote control opens as a window on the workbench. With this window you can interactively control your device[s], you can use the IR-Runner's **ARexx-port** for programming your devices... Finally you can send infra red codes from within other applications or edit scripts which will automatically control e.g. your video recorder.

Since version 2.5 of the IR-Master two new features were introduced: You can directly send commands to **LControl** and **Rapid**. This allows you to control video cameras supported with an **LANC/Control-Interface** and video recorders supported with an **GSE-Rapid-interface...**"

## Appendix D History

V1.00

first Release

V1.01

- arexx-command: GETSTATUS added
- fixed some minor bugs

V1.02

- Support for 2 cameras added [Switch]
- minor bugfixes

V1.05

- Zoom in/Zoom out added
- Record added

V1.1

- Goto added
- Better SWAP implementation

V1.2

[never released]

V1.3

- Now LControl uses a library (LANC.library)
- goto added (automatic positioning)
- many other minor bugfixes an features

V1.4

- localized

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