

MASTER

LOGO

Pick up your personal copy of

LOGOSOFT
MASTER LOGO
for the
ACORN MASTER
& BBC MICRO

from stand 48

and save 50% off recommended retail price

1. STAND-ALONE SYSTEMS

LOGOsoft (LSL) LOGO for the BBC Micro, comprising a full LOGO interpreter on a single EPROM, two toolkit discs containing utilities, interfaces, demonstrations and applications, and one copy of the 234pp manual, *LOGO for the BBC Micro*.

normal price
£67.85

incl. VAT

special show price
£33.95

2. STAND-ALONE SYSTEMS FOR ACORN MASTER & BBC MICRO SIDEWAYS RAM

As (1) above, but supplied on disc for use in the Acorn Master or with 16k of sideways RAM in a single BBC Micro.

normal price
£46.00

incl. VAT

special show price
£23.00

ALSO AVAILABLE: network, site and Local Education Authority area licences. For full details pick up *What's New in LOGO* at the LOGOsoft stand, or talk to Chris Squire, Sales Director.

LOGOsoft

316a Richmond Road, Twickenham,
Middx, TW1 2PD. Tel: 01-891 0989

SPECIAL OFFER

1/2

PRICE

AT THE

4th OFFICIAL ACORN USER Exhibition

Barbican Centre, LONDON EC2.
24th-27th July, 1986.

STAND 48



BRITISH
BROADCASTING
CORPORATION
MASTER SERIES
MICROCOMPUTER

BBC MICRO

A C O R N

M A S T E R

T E C H N I C A L

L O G O

A letter to teachers and lecturers

Dear Teacher,

FREE LOGO TRIAL OFFER

There's only one way to tell if a piece of educational software is worth having: try it before you buy it. That's why LOGOsoft (LSL), Britain's premier LOGO publisher, are offering you the chance to trial LOGOsoft LOGO in your school for a month this autumn. This is a unique opportunity for you to evaluate for yourself a powerful and exciting piece of educational software.

The LOGOsoft package comprises a LOGO chip, two Toolkit discs containing demonstrations and applications, and a fully illustrated and easy to use manual. All this can be yours free for a month to play with and to work with: an ounce of hands-on practice is worth a pound of press reviews.

To find out what LOGO is all about this autumn order (on your establishment's letter head, please) your One Month Free Trial Copy from:

LOGO Free Trial Offer
LOGOsoft
316a Richmond Road
Twickenham TW1 2PD

Yours sincerely,



Chris Squire
Sales Director

P.S.: Please state clearly when you want the trial to start. All orders will be acknowledged and we will send you our free LOGO Fact Pack to read over the holidays.

P.P.S.: Stocks are limited, so write today to be sure of your copy!

6

OF THE BEST

S I X GOOD REASONS FOR CHOOSING LOGOSOFT MASTER LOGO

1

LOGOsoft (LSL) is the fastest and most efficient BBC LOGO. Its **Dynamic Memory Management** makes full use of the BBC workspace and runs recursive procedures in much greater depth. And LOGOsoft is fully compatible with the Acorn Master series.

2

LOGOsoft LOGO comes equipped with a lavishly illustrated 234-page manual, including a full *Technical Specification* with detailed descriptions of each primitive and examples. The manual also includes *The Young Person's Guide to LOGO*, the acclaimed introduction for beginners of all ages.

3

The LOGOsoft package includes two free **Toolkit Discs** and a 40-page Manual for intermediate and advanced LOGO users. The Toolkits contain an exciting range of interfaces, utilities and applications as well as software demonstrating the enormous scope of LOGO as a high level language.

4

LOGOsoft **Technical LOGO** is a control language smart enough to be used in industry, but simple enough to be used in schools. It is compatible with all the control interface boards found in schools and makes full use of LOGOsoft's superior speed and power.

5

LOGOsoft is the only BBC LOGO that can be used in combination with a **Concept Keyboard** to drive a **Valiant Turtle**. This is because the LOGOsoft turtle driver uses the BBC Micro's parallel interface to connect to the keyboard, and the serial interface to drive the turtle. These are two widely used educational devices which deserve to be linked with LOGO.

6

LOGOsoft LOGO comes in a variety of packages to suit every user. Apart from the stand-alone version on 16k ROM there are disc versions for sideways RAM and Acorn Master users, and Network, Site and Area licences available to education authorities. Phone Chris Squire on 01-891 0989 for further details.

*And don't forget: when you install LOGOsoft LOGO you're not just buying a product: you'll be linked by the **LOGO Hotline** (0454 313 076) to the Bristol-based software team who designed and wrote LOGOsoft LOGO and who are still developing it and extending it today. LOGO is 'state of the art' computing - get a copy today and start exploring!*

LOGO ARC

EXTENSIONS

Interfacing Toolkit

BBC Buggy Driver

Cheetah Speech Chip Driver

Printer Screen Dump

Jessop Turtle Driver

Valiant Turtle Driver

Zero II Driver

Joystick Interface

Concept Keyboard Interface

All these facilities are included on the LOGOsoft

TOOLKIT DISC 1

DEMONSTRATIONS

Conversation

Graphics

Music

Data Files

All these facilities are included on the LOGOsoft

TOOLKIT DISC 2

LOGOsoft Master LOGO is the most efficient LOGO for the Micro and Acorn Machines. It is a real rival for speed of operation and machine memory. Its benchmark tests it against the IBM PC.

LOGOsoft is a genuine educational product — a new possibility for LOGO. Since its launch in November, LOGO has been continuing a variety of fascinating projects. It stands at the cutting edge of an encompassing the education of robotics, control, artificial intelligence, handling, and ... in a wide application for a high level.

The world of LOGO architecture is being developed. No other computer-based system offers a unique chance to participate in 'development'. And it is better designed for LOGOsoft Master.

LOGO

LOGO

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HI T E C T U R E

LOGO is the fastest and
around. On the BBC
Master it outscores all its
rivals in terms of perfor-
mance and utilisation of
resources. On many standard
systems it is even faster than
BBC LOGO!

The full LOGO: a quality
product with a host of exciting
features that appeal to
home micro users too.
In November 1984 LOGOsoft
has continuously expanded with a
range of new software. LOGOsoft
is the centre of a network
providing a complete range of LOGO:
artificial intelligence, data
management ... any other
level computer language.

LOGO is infinite, and its
capabilities are constantly redesigned.
New activity offers such a
wide range of participation in 'state of the
art' that no other implementation
can be compared for the purpose than
the Master LOGO.

LOGO
SOFT

LOGO

BBC MICRO

TECHNICAL LOGO

Technical LOGO is the control extension to LOGOsoft
LOGO for the Acorn Master and the BBC Micro.

Technical LOGO is very fast: it runs at 50 LOGO
primitives a second, which is fast enough to allow
control routines to respond to feedback. The 21 new
commands operate as LOGO primitives: they follow the
rules of LOGO syntax and they give standard LOGO
error messages. The 21 Technical LOGO primitives are:

ADVAL	reads the analogue input channel. It is already part of the LOGOsoft LOGO language and is included here for completeness.
COUNTBIT	counts the number of changes in the value of one line, controlled by the changing of another line.
CYTIME HITIME & LOTIME	gives the cycle time for a line and the time for which it was high or low.
?HITIME & ?LOTIME	gives the high or low times corresponding to the last HITIME, LOTIME or CYTIME command.
LASTOUT	gives the last value sent to the output port.
MOTOR	uses pulse width modification to control the speed and direction of DC motors.
PULSE	sends a continuous stream of pulses of a specified type to a specified line.
READPORT	reads the value of the input port.
RESET	resets all the ports to their original setting.
SCREEN & NOSCREEN	turn the screen display on and off.
SELECT	resets different input and output ports.
SENDPORT	sends a whole byte to the output port.
STATE	reads the state of a line of the input port.
TURNON & TURNOFF	control individual lines on the output port by operating either on bit numbers or a list of bit numbers.
WAIT	tells LOGO to wait for the interval given (measured in 100ths of a second).
?C	counts the number of times line b changes from high to low and back again
ZC	zeroises the count returned by ?C.

APPLICATIONS

Arithmetic Utilities

Data File Handling

Fractional Arithmetic

Graph Plotting

List Processing

List Sorting

Multiple Turtles

Normal Distribution

Property Lists

Rank Correlation Coefficient

Set Theory

Statistics

Transformational Geometry

Turtle Graphics

Vector & Matrix Algebra

Vector Graphics

Wrapped Turtle Graphics

All these facilities are
included on the LOGOsoft

TOOLKIT DISC 2

BRIT

BROADC

CORPO

MASTE

MICROCC

DOCUME

LOGOsoft Master LOGO documentation is the full manual, LOGO for the school, designed to be equally useful for the school. The 'Technical' manual contains detailed descriptions of the LOGO language, with examples of how to use it. It is the quintessential introduction for young, and not so young, users.

The 40pp LOGOsoft Toolkit contains descriptions of utilities, extensions, and applications software for advanced LOGO users. Each utility is described in full detail, with helpful comment lines within the software itself.

The LOGOsoft A4 reference manual provides a concise description of the LOGO language for reference while programming. The primitive vocabulary is explained, while the other features are described in detail. The description of the LOGO language, punctuation, Technical Toolkit.

LOGO USER, an occasional magazine, reports on exciting developments in the LOGO world. By filling in the card, LOGOsoft users get

LOGO is more than just Turtle Graphics — it is a powerful applications in the fields of maths

BRITISH CASTING RATION SERIES COMPUTER

PRESENTATION

0's primary
ly-illustrated 234-page
BBC Micro. It is
useful at home or at
'specification' contains
every primitive with
them, while the
n's **Guide to LOGO** is
duction to the language
ung, LOGO pioneers.

Toolkit Manual introduces
onstration and
r intermediate and
Each facility is
supplementing the
which you will find in the

nce card contains a
ne language for instant
aming. The whole
efined on a single
side carries an essential
D Editor, LOGO
LOGO and the LOGOsoft

onal magazine covering
n LOGO in Britain and
ing in their registration
a free 3-issue subscription.

To be released AUTUMN 1986

NETWORK LOGO

LOGOsoft LOGO is available on disc to run on networks using sideways RAM. It requires a minimum of 16k sideways RAM per machine.

The licence fee per network is £40 plus £15 per manual supplied. The minimum package is LOGOsoft LOGO on disc, plus the toolkit discs, plus four manuals. Minimum fee is £100. All prices are subject to VAT.

Examples of total cost:

For an 8-station network ...

Cost of minimum package	£100.00
Cost per station	£12.50

For a 15-station network ...

Cost of licence plus 6 manuals	£160.00
Cost per station	£10.67

SIDEWAYS RAM LOGO

LOGOsoft LOGO is available on disc for use on a BBC Micro equipped with 16k of sideways RAM. The disc-based version costs £40.00 (plus VAT).

For £59 (plus VAT) LOGOsoft will supply Sideways RAM LOGO on disc plus a free RAMAMP sideways RAM module.

ICONIC LOGO

LOGOsoft are currently developing the world's first Iconic LOGO for use with the Microvitec Touch Screen. Users will be able to enter LOGO commands by touching the appropriate Icon on the screen, greatly increasing the speed and convenience of LOGO programming.

To be released AUTUMN 1986

an instantly accessible high-level language with
, robotics, control and artificial intelligence.

LOGOSOFT

Designing LOGOsoft (LSL) LOGO was a family affair for Kay and Paul Crowe and their daughters Lucy and Elizabeth. Kay and Paul had worked in computers for over fifteen years – time enough to realise that the conventional approach to computer programming, particularly in education, left everything to be desired.

In an interview in **LOGO USER** (Autumn 1985) Kay Crowe described her reaction when she first read about LOGO:

"One of my colleagues at work saw a review of Mindstorms in Byte and photocopied it for me. We read the review and it looked very interesting. We managed to obtain a copy of Mindstorms as soon as it was published in Britain (1981) and we just sat there reading it in total amazement that someone had managed to get all those ideas down on paper. We kept saying 'Hey, listen to this. Have you read this bit?' It was full of things we had felt for years, about teaching computers and programming. We felt we wanted to give a copy to every teacher in the country."

Kay and Paul are developing extensions to LOGOsoft (LSL) LOGO at their computer consultancy, CATSOFT, based near Bristol. They also operate the LOGO Hotline (0454 313 076), giving advice and support to LOGOsoft users.



This COUPON is WORTH

£ 3 3 . 9 0

off LOGOSOFT

MASTER LOGO

Before 1 August 1986

LOGOsoft's special exhibition offer closes on 1 August 1986, so post this coupon today to make sure of your discount. Please tick version required:

- £35.95 for BBC LOGO on ROM
- £25.00 for LOGO on Disc for the Acorn Master
- £25.00 for LOGO on dJsc for BBC Sideways RAM.

(prices include VAT and £2 p & p)

Please send cash with order to:

Exhibition Special Offer, LOGOsoft, 316a Richmond Road, Twickenham, Middlesex TW1 2PD.

- Remember: send your name and address.
- Orders must be postmarked on or before 31 July 1986 to qualify.