

# RESEARCH MACHINES COMPUTER SYSTEMS

HRG HARDWARE AND SOFTWARE ORDERING INFORMATION

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ORDERING HRG HARDWARE FOR AN EXISTING SYSTEM

If you wish to add HRG hardware to an existing system, you must check that you have a bus terminator board and a bus cable with sufficient plugs. You may need extra bus plugs if you are ordering the HRG standard black and white board AND a PAL/UHF board. Note that the RGB board mounts directly onto the rear panel in 'black case' 380Zs, and does not take up a board slot or a bus cable plug.

A bus terminator board and 7-way bus cable (to provide extra plugs) are available from RML. To simplify the existing situation, in future we shall only supply this bus cable, which has the maximum number of plugs. Bus cables may be exchanged for the difference in price between the one you originally purchased and the one you now require, plus a handling charge. Please see below for prices.

FURTHER INFORMATION ABOUT THE RGB BOARD

This is a board which plugs into the HRG (black and white) board to provide RGB (red, green and blue) outputs (and sync. if necessary) and can connect directly to an RGB colour monitor. In black case 380Zs the board is mounted on the rear panel by an integral bracket which holds four 'BNC' sockets. Thus, it does not use up any board slots. Cables will be required to connect the RGB BNC sockets to an RGB monitor. Many RGB monitors have BNC sockets for their inputs and for this we offer separately, a set of four three metre BNC to BNC cables lengths. Various types of connectors may be found on RGB monitors and customers may have to obtain the necessary cables from their monitor suppliers.

The RGB board has a cable which plugs into the same socket on the HRG (black and white) board, normally used by the PAL/UHF board. To allow both boards to be used simultaneously, the RGB board has an extra socket on the relevant cable, into which the cable from the PAL/UHF board can be plugged.

ORDERING HRG SOFTWARE

Please note that not all RML software will necessarily be available with HRG support. Existing customers will be able to upgrade to versions which support HRG, as they become available. An upgrade charge may be made and in some cases the original cassette or disk will have to be returned as proof of purchase.

Those who would like to order HRG software for a new system must first make sure that the language they wish to use on the system supports HRG. Please telephone the Sales Office for up to date information.

#### NEW AND EXISTING FORTRAN CUSTOMERS

HRG Version 1 support for Fortran has the form of a linkable module. It is not supplied either automatically or free of charge to new or existing customers. It must be purchased as a separate item.

#### Ordering Information:

1. Order 'HRG Version 1 support for Fortran for MDS (or FDS)'.
2. NO original master disk should be returned.

#### Documentation Supplied:

Release Notes only. The HRG Reference Manual is sent out automatically with each HRG board.

#### NEW AND EXISTING ALGOL CUSTOMERS

HRG Version 1 support for Algol has the form of a new version of the runtime system. It is not supplied either automatically or free of charge of new or existing customers. It must be purchased as a separate item.

#### Ordering Information:

1. Order 'HRG Version 1 support for Algol for MDS (or FDS)'.
2. NO original master disk should be returned.

#### Documentation Supplied:

Release Notes only. The HRG Reference Manual is sent out automatically with each HRG board.

#### ASSEMBLY LANGUAGE SOURCE

The High Resolution Graphics Datasheet incorrectly states that an Assembly Language source suitable for input to RML ZASM or Microsoft M80 Assemblers is currently available. We regret that this software is not yet available for release. Its availability will be announced in the Newsletter.

WHEN ORDERING HRG HARDWARE PLEASE SPECIFY:

1. Memory size of computer.
2. COS version number of computer.
3. Whether 40 or 80 character board fitted.

PRICES

HARDWARE

HRG (Black and White) Standard Board	£225.00
PAL/UHF Colour Driver Board	134.00
RGB Colour Driver Board	79.00
Bus Terminator Board	17.82
Bus Cable 7-Way	30.60
Bus Cable Exchange Handling Charge	2.00
Set of 4 x 3 metre cables with BNC connectors at each end	35.00

SOFTWARE

HRG Version 1 support for Algol for MDS (or FDS)	25.00
HRG Version 1 support for Fortran for MDS (or FDS)	25.00

BASIC Upgrades to Include Graphics

Upgrade to Extended BASIC Version 5H Cassette	12.00
Upgrade to Extended BASIC Version 5H for MDS	15.00
Upgrade to Extended BASIC Version 5H for FDS	16.50