



The Blue Ram



16384 BYTES OF RAM FOR YOUR ARCADE!

The Blue Ram is a small blue box with an edge connector that plugs onto the 50 pin expansion outlet on the back of the Bally. It contains 16384 bytes of static read-write memory (RAM) that can be protected from accidental writing (ROM mode) either by a switch or with software. An additional 128 bytes are not write protectable. A 24-pin Zero Insertion Force (ZIF) socket affords two 8-bit parallel input/output ports for controlling external devices. Under control of your program, any of these 16 bit lines may be read (input) or written to (output). The remaining 8 pins provide power and certain other connections for access to the Z80 microprocessor timing signals and the sound system.

The Blue Ram comes with two programs on tape, a regulated power

supply and an instruction manual. Included in the programs are a Diagnostic for the Blue Ram and an Utility program to assist in machine language programming. The Utility also includes support program routines for generating multicolors with BASIC and hexadecimal write to tape. An arcade game can be transferred to the Blue Ram, modified and dumped to tape for later loading and running in the Blue Ram. Price is \$249.95. Also available in kit form at \$199.95 for EXPERIENCED kit builders.

BLUE RAM OWNERS! We are now converting existing 4K Blue Rams to 16K at \$135.95, including an exchange of your Extended Basic cartridge. Or, do-it-yourself with a kit at \$99.95. The cartridge now gives 15,500 bytes of programming space!

THE BLUE RAM

Includes owner's manual and utility and diagnostic program tape
(If there's enough demand there will be a 4K version for under \$200.00)

\$249.95

THE BLUE RAM KIT

Requires some electronic experience. Build your own **Blue Ram**

\$199.95



**PERKINS
ENGINEERING**

When ordering specify whether you have
300 baud Bally Basic or 2000 baud Astrovision Basic

1004 PLEASANT AVE., BOYNE CITY, MICHIGAN 49712
(616) 582-9832



Blue Ram ACCESSORIES

Complete hardware and software peripherals, ready to plug in to your **Blue Ram's** ZIF socket and use.

A TRUE 8K EXTENDED BASIC! IN CARTRIDGE FORM

Blue Ram Super Extended BASIC was written by Jay Fenton and John Perkins to take advantage of the Blue Ram's exclusive input output ports, hardware and software switching mechanisms, and the Bally-Astrovision Arcade's outstanding game and graphics design capabilities. Gives up to 15,500 bytes of programming space with special POINT, CIRCLE and SNAP commands, 4 colors, built-in math routines, keyboard and printer driving logic, 300 baud or 2000 baud data output and much more! Will not operate without a Blue Ram or other extended memory.



\$49.95

THE BLUE RAM KEYBOARD!

A 62 key typewriter style assembly mounted on wooden end blocks and fitted with a 3 foot cable to plug into the Blue Ram ZIF socket. Bally's command words are added to the keys.

Wired and tested **\$89.95**
(Also available in kit form)



THE BLUE RAM MODEM/PRINTER INTERFACE

Connects the Blue Ram to a star modem (not included) and to one of several good printers or both. Now your computer can "talk" to other computers or explore the world of The Source. Use your computer to print letters, mailing lists, budgets, etc.

Wired and tested **\$99.95**

300 BAUD ONLY

OPERATING SYSTEM

This is a machine code program on tape which

SORRY! THIS TAPE IS NOT AVAILABLE,
IT HAS BEEN SUPERCEDED AND REPLACED
BY THE BLUE RAM EXT. BASIC CARTRIDGE.

BSR CONTROLLER

The BSR Controller is a system that communicates with the BRS X-10 ULTRASONIC Remote Control System. At \$19.95, this controller comes ready to plug into the Blue Ram and be aimed at the BSR control console. The included taped program allows you to program up to 16 lights or appliances for up to 24 hours, in 10 minute intervals. This is a form of break-in protection when you are away from home.

\$19.95

When ordering specify whether you have
300 baud Bally BASIC or 2000 baud Astrovision BASIC



**PERKINS
ENGINEERING**

1004 PLEASANT AVE., BOYNE CITY, MICHIGAN 49712
(616) 582-9832

