

## Frame-grab option for TV displays

Grinnell Systems, 2986 Scott Blvd., Santa Clara, CA 95050. J. Metzler (408) 988-2100. See text.

Combined with the high-speed RAM refresh memories used in Grinnell graphic displays, the "frame-grab" option gives users the ability to grab, digitize and store a full video frame of any RS-170 video signal in real time, ready for further computer processing and analysis. The frame-grab plug-in card fits into standard Grinnell display controller cabinets, but is available only for new systems. Prices of the option card range from \$1000 to \$3000, depending on display system and resolution.

CIRCLE NO. 389

## Printer is controlled by a microcomputer

Dataronjal Inc., 235 Main Dunstable Rd., Nashua, NH 03060. (603) 883-4157. \$1595 (100 qty), 60 days.

The Model 7000 is the first of a series of low-cost intelligent printing systems designed for microcomputer control, combining an 8-bit  $\mu$ C with a 120 character/s parallel printer. It includes a parallel interface, and produces an ASCII character set in either standard or extended widths. Additional interfaces or character sets are readily available with a change in PROMs. The transport consists of a lead screw and servo motor for bidirectional printing, and a stepping motor controls bidirectional paper handling.

CIRCLE NO. 390

## Spruced-up mini is tougher, faster

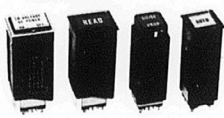
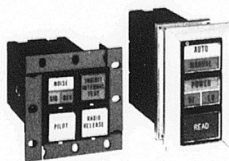
Norden, Norwalk, CT 06856. (203) 838-4471. From \$2000 (OEM qty); December, 1977.

The LSI-11M is built under license from DEC to withstand military airborne, shipboard, ground-based, mobile and space environment, using LSI-11 software. The 16-bit microcomputer is based on the architecture of the DEC LSI-11, but is four times faster. Manufactured under MIL-9858A, the unit meets MIL-E-5400, MIL-E-16400, and MIL-E-4158. Options include 4 kwords of RAM, core memory of 16 or 32 kwords, a PROM module, and parallel and serial I/O interfaces.

CIRCLE NO. 391

# Check the finest lighted display PUSHBUTTON SWITCHES

☒ QPL ☒ Seismic qualified



### ☒ Matrix System—

Four lamp message display. Square or rectangle. Up to 4PDT switching. Momentary, alternate, latch-down, or magnetic held action. Solder, wire wrap, PC, or crimp pin terminals. Full servicing from front of panel. Easy rear mount with flange or front mount with dress bezel.

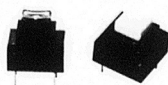
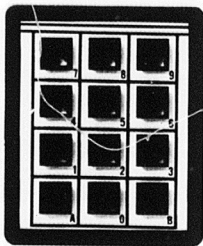
### ☒ Individual Mount—

Same pushbutton and switching options as Matrix System. Use for entire layout or to isolate function from matrix array with look-alike appearance. Quick and easy to mount. Relamp from front of panel.

### ☒ Single Lamp—

Low cost military or industrial/commercial switches built to exacting specifications. 2PDT or 2 circuit switching. Momentary or alternate action. Solder or PC terminals. Wide selection of pushbutton sizes, colors, styles, and legend types. Bushing or snap-in bezel mount.

## LOW PROFILE KEYBOARDS



### ☒ LED Keyboards—

Lighted keys for visual indication of function status. 10, 12, or 16 station. Square or round keys. Attractive color selection. Clear, sharp keytop marking or two color overlay decal. Universal circuit and pin-out. Interfaces with most logic. Easy front mount.

### ☒ Unlighted Keyboards—

Same design features as LED Keyboards except unlighted. Low cost, dependable, attractive. Wide choice of colors offers custom design at off-the-shelf prices.

### ☒ Keyswitch Modules—

Single station modules. LED or unlighted. Square or round keys in choice of color with keytop marking. Mount on PC or pre-punched boards with holes on .100 centers.

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