The Richardson Electronics MR2000HB-MED Hi-Brite monitor is a 20", flat profile, high-resolution display, controlled by an embedded Microprocessor and custom ASIC. The unit is designed for use as a 1000 line display for MRI, CT and other digital based modalities at high brightness. Multi-frequency scanning from 31 to 88 kHz horizontal provides compatibility with standard VGA to custom formats at flicker-free vertical rates of 48 to 150 Hz. A passive loop-thru feature is built-in along with an optional table mounting configuration.

User access to controls is via three push buttons to control eleven functions that appear sequentially on-screen with a digital value. The RS-232 port along with optional software will permit the unit to be set up and calibrated from a Personal Computer. The user controls, if desired, can be disabled from software to prevent unwanted manipulation. A Dispenser Cathode is standard to assure long tube life. Contrast enhancement is optimized with an anti-reflective coating, minimizing ambient glare.

Specify Richardson for superior performance, digital accuracy, and consistent quality at a competitive price.
### POWER REQUIREMENTS:
- **Input Voltage:** 88 - 132VAC or 180 - 264 VAC, Auto - switching
- **Power Frequency:** 47 - 63Hz
- **Power Consumption:** 110 Watts Max @ 88KHz
- **Power Factor Correction:** IEC 555-2

### GENERAL PERFORMANCE:
#### SCANNING FREQUENCY:
- **Horizontal:** 31 - 88kHz
- **Vertical:** 48 - 150Hz

#### VIDEO AMPLIFIER:
- **Video Bandwidth:** 250MHz Typical

### DISPLAY PERFORMANCE:
#### DISPLAY AREA:
- **Width:** 14.25”/362mm
- **Height:** 10.7”/272mm
- **Non-Linearity:** <10%
- **Raster Stability:** 0.05mm Max jitter/swim
- **High Voltage Regulation:** .5% Max size change
- **Nominal Brightness:** 100 ft. L with AR Coating

### INTERFACES:
#### VIDEO INPUT SIGNALS:
- **Analog Level:** 0.7 V p-p Typical (75 Ohm external termination loop-thru)
- **ECL Video:** Optional

#### SYNC INPUT SIGNALS:
- **Separate:** TTL Levels
- **Options:** Full Composite/Separate Composite
- **Input Connector:** BNC

### ON SCREEN CONTROLS:
- Horizontal size & centering
- Vertical size & centering
- Brightness
- Contrast
- Pin
- Bow
- Trap
- Skew
- Rotation
- Power on/off (switch)

### ENVIRONMENT & OPERATING CONDITION:
#### TEMPERATURE:
- **Operating:** 0°C to + 40°C
- **Storage:** -40°C to +65°C

#### HUMIDITY:
- **Operating:** 10 to 90% non-condensing
- **Storage:** 5 to 95% non-condensing

#### VIBRATION:
- **Operating:** 0.25 G Peak, .8mm p-p Max
- **Non-Operating:** 1.0 G Peak, 4mm p-p Max

#### SHOCK:
- **Operating:** 5 G’s Peak
- **Non-Operating:** 30 G’s Peak

#### SAFETY:
- **UL, CSA, TUV, CE - LVD, DHHS

#### EMI:
- **FCC Class B, CE - EMC

#### Environmental:
- **MPRII, NUTEK, Energy Star available

#### Ergonomic:
- **ISO 9241 - 3

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