DTV Reference Monitor

DT-V2000SU 20"

- Multi-format capability: 1080/60i, 720/60p, 480/60p, 480/60i, NTSC and computer resolutions of up to SXGA
- True native resolution without conversion
- Horizontal resolution: 900 lines
- 20” High-Definition monitor with Dynamic Focus circuit
- 4:3 and 16:9 aspect ratio selectable (4:3 CRT)
- Accepts component, RGB, composite, Y/C and 15-pin PC input
- Overscan and Selectable Color Temperature
- Wired and wireless remote control
- On-screen setup
- Metal cabinet

DTV Format Signals

<table>
<thead>
<tr>
<th>DTV formats</th>
<th>480i</th>
<th>480P</th>
<th>720P</th>
<th>1080i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal standard</td>
<td>ITU-R BT.601-4</td>
<td>SMPTPE 293M</td>
<td>SMPTPE 296M</td>
<td>SMPTPE 274M</td>
</tr>
<tr>
<td>Scanning lines/frame</td>
<td>525</td>
<td>525</td>
<td>750</td>
<td>1125</td>
</tr>
<tr>
<td>Effective sample (Horiz)</td>
<td>720</td>
<td>720</td>
<td>1280</td>
<td>1920</td>
</tr>
<tr>
<td>Scanning lines</td>
<td>485</td>
<td>483</td>
<td>720</td>
<td>1080</td>
</tr>
<tr>
<td>Field frequency (Hz)</td>
<td>69.94</td>
<td>68.84</td>
<td>60/68.84</td>
<td>60/58.84</td>
</tr>
<tr>
<td>Line frequency (Hz)</td>
<td>15734</td>
<td>31468.5</td>
<td>45000/44955</td>
<td>33750/33716.25</td>
</tr>
<tr>
<td>Sampling frequency (MHz)</td>
<td>54</td>
<td>135</td>
<td>148.5/148.351648</td>
<td>148.5/148.35168</td>
</tr>
<tr>
<td>Interface ratio</td>
<td>2:1</td>
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- Type: DTV/NTSC/PC
- CRT: 20” measured diagonally, in-line gun. 90° deflection, dot-trio type (dot-trio pitch:0.26 mm)
- Effective screen size:
  - Width: 16” (406.4 mm)
  - Height: 12” (304.8 mm)
  - Diagonal: 20” (508 mm)
- Scanning frequency:
  - H: 15 k/31.5 k to 65 kHz
  - V: 50 - 100 Hz
- Video band: DC - 60 MHz (RGB)
- Horizontal resolution:
  - NTSC: 600 TV lines
  - 1080i: 900 TV lines
- Aspect ratio: 4:3, 16:9 (selectable)
- Linearity: ±10% (max.)
- Pincushion distortion: ±1% (max.)
- White balance:
  - 9300: x=0.283, y=0.297
  - D65: x=0.313, y=0.329

- Input connectors:
  - INPUT A: RGB/COMP, multi-input
    1 line, BNC connector x 6 (bridge connection possible, auto termination)
    Analog RGB signal:
    - \( R_B \): 0.7 V (p-p), 75 ohms
    - \( G \): 0.7 V (p-p), 75 ohms
    - \( G \) on sync: 1.0 V (p-p), 75 ohms (negative sync)
    Y/R-Y/B-Y component signal:
    - Y: 1.0 V (p-p), 75 ohms (negative sync)
    - R-Y/B-Y: 0.7 V (p-p), 75 ohms
    DTV format signal:
    - [480 (ITU-R BT. 801-4), 480p (SMPTPE 283M)]
      - \( V \): 1.0 V (p-p), 75 ohms (negative sync)
    - \( R_B \): 0.7 V (p-p), 75 ohms
    - [720p (SMPTPE 286M), 1080i (SMPTPE 274M)]
      - Y: 1.0 V (p-p), 75 ohms (3-value sync)
    - \( P_B, P_R \): 0.7 V (p-p), 75 ohms

- External EXT SYNC (HD/Cs. VD) input:
  1 line, BNC connector x 4 (bridge connection possible, auto termination)
  Horizontal/composite synchronization signal:
  - HD: 1 - 4 V (p-p), 75 ohms
  - Cs: 1 - 4 V (p-p), 75 ohms
- Vertical synchronization signal:
  - VD: 1 - 4 V (p-p), 75 ohms

- INPUT B: VIDEO input:
  1 line, BNC connector x 2 (bridge connection possible, auto termination)
  1.0 V (p-p), 75 ohms (negative sync)
  Y/C input:
  1 line, mini-DIN 4-pin connector x 1
  Y: 1.0 V (p-p), 75 ohms (3-value sync)
  C: 0.286 V (p-p) (burst signal), 75 ohms
  *(When both terminals are connected at the same time, the Y/C terminal is given priority.)*

- INPUT C: PC (RGB) input:
  1 line, D-sub 3-row 15-pin connector x 1
  *Exclusively for computer signal input*
  (SYNC termination: 330 ohms)

- AUDIO INPUT:
  1 line, RCA pin x 1 (Monaural)
  0.5 Vrms, high-impedance
- Remote input/output:
  1 line, DIN 8-pin connector x 1
  External input select control of 3 bits (signal of 2 bits, ENABLE signal of 1 bit)
  Input status output of 2 bits

- Audio output:
  1 W (Monaural)
- Built-in speaker:
  3-1/8” (8 cm) round x 1
  Impedance of 8 ohms
- Environmental conditions:
  Operating temperature: 0°C to 40°C (32°F to 104°F)
  Operating humidity: 20% to 85% (non-condensing)

- Power requirements:
  120 V AC, 60 Hz

- Weight:
  31.6 kg (69.6 lbs.)

- Dimensions:
  476 (W) x 407.5 (H) x 529 (D) mm
  (18-3/4” x 16-1/8” x 20-7/8”)

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All model numbers, specifications and prices are subject to change without notice.