

SONY

Multiscan 20sh  
A World Champion





# Multiscan 20sh

## What it takes to become a world champion

### Sony Trinitron Quality

One hundred million Trinitron displays sold world wide - an unparalleled success story that began in 1968. Trinitron is a unique alternative to shadow mask display systems, offering higher brightness, better contrast, sharper pictures and more vibrant colours.

### 0.25 mm Pitch - Outstanding Picture Quality up to 1600 x 1200

Sony is now a market leader in 20" displays thanks to Trinitron technology. The development of a CRT with a 0.25 mm pitch, even finer than the usual 0.30 mm, is another decisive step towards quality, guaranteeing excellent picture detail at all resolutions. Even 1600 x 1200 is now a truly workable proposition. What CAD/CAM and imaging professionals demand, Sony provides.

### 107 kHz for 85 Hz at 1600 x 1200

If the 0.25 mm pitch is like the new chassis of a Formula One car, then the 107 kHz horizontal frequency - among the best in the world - is its horse power and the maximum refresh rate its top speed. Combined with a new upper vertical frequency, the monitor provides 160 Hz at 640 x 480 or 800 x 600, almost three times better than the 60 Hz with VGA. 1280 x 1024 can be achieved with a maximum of 100 Hz and 1600 x 1200 with an out-standing 85 Hz (VESA). Flicker is definitely a thing of the past.

### Magnetic Field Compensation

Because of the effects of the earth's magnetic field and Trinitron's exceptionally fine 0.25 mm pitch, special attention has been given to beam landing. Sony engineers have developed compensation circuitry to cancel the effects of beam mislanding. Additionally, raster rotation and purity control are user-adjustable.

### Convergence Correction

Convergence is the precise overlapping of the electron beam colours on the phosphor. Sony has implemented a specially designed correction circuit which reduces deviation to less than 0.3 mm in all picture areas, ensuring sharp, accurate colour.

### Colour Temperature Control

Colour temperature can be adjusted to afford a greater match between print and display. The Multiscan 20sh offers two preset colour temperature settings of 5000 K and 9300 K, and one additional user controlled mode of 6500 K.

### NUTEK and Energy Star Power Management



Sony remains committed to a policy of environmental and ergonomic safety. The Multiscan 20sh complies fully with the EPA's (USA Environmental Protection Agency) power management guidelines, and with even stricter guidelines laid down by NUTEK.

### MPR II Radiation Control

Radiation is controlled by the Multiscan 20sh's adherence to the MPR-II guidelines for electromagnetic emissions. It also has the TÜV/Rheinland Ergonomic Approval.



### TCO '92 Compliance

Finally, the Multiscan 20sh fully meets the strict guidelines defined by the TCO '92 standard.



### MAIN SPECIFICATIONS

<b>MODEL CODE</b>	GDM-20SHT
<b>CRT</b>	Super Fine Pitch™ Trinitron® tube; 20" (53 cm), AR coating.
<b>VISUAL AREA</b>	387 mm x 292 mm
<b>APERTURE GRILLE PITCH</b>	0.25 mm
<b>HORIZONTAL SCAN RANGE</b>	30 to 107 kHz
<b>VERTICAL SCAN RANGE</b>	50 to 160 Hz
<b>MAXIMUM REFRESH RATES</b>	1024 x 768/134 Hz 1280 x 1024/100 Hz 1600 x 1200/85 Hz (VESA) 1600 x 1280/80 Hz
<b>PRESET RESOLUTIONS</b>	VGA Graphics 640 x 480/60 Hz VESA 800 x 600/75 Hz Mac16" 832 x 624/75 Hz VESA 1600 x 1200/80 Hz Mac 19" 1024 x 768/75 Hz Mac 20" 1152 x 870/75 Hz VESA 1280 x 1024/75 Hz VESA 1600 x 1200/75 Hz VESA 1600 x 1200/85 Hz
<b>COLOUR TEMPERATURE CONTROL</b>	Fixed (2x): 9300 K/5000 K Variable (1x): 5000 - 9300 K Preset 6500 K
<b>COMPUTER INTERFACE</b>	DDC 1/2B (VESA-Display Data Channel 2B) monitor to computer data transmission *
<b>POWER CONSUMPTION</b>	175 watts (maximum)
<b>POWER MANAGEMENT</b>	TCO '92 (NUTEK), EPA's Energy Star VESA - Display Power Management Signalling (DPMS)

### REGULATION COMPLIANCE

<b>SAFETY</b>	UL1950, CSA C22.2 No. 950, EN60950, ZH-1/618
<b>RADIATION/EMI</b>	TCO '92, MPR II, FCC Class B, IC Class B VDE 0878 Class B, VCCI Class 2
<b>X-RAY</b>	DHHS, DNHW, PTB
<b>CE-MARK</b>	EN50082-1, EN55022 Class B, EN60555-2
<b>ERGONOMICS</b>	TCO '92, TÜV/Rheinland Ergonomie, ISO-9241-P3

### FRONT PANEL CONTROLS

Brightness, Contrast, Horizontal size and centring, Vertical size and centring, Pincushion and Keystone distortion, Raster rotation and purity, Moiré cancellation, Horizontal and vertical static convergence, Colour temperature

<b>VIDEO INPUT</b>	VGA (D-sub 15), BNC 5
<b>POWER REQUIREMENTS</b>	90-132/180-264 V AC, 50/60 Hz
<b>DIMENSIONS (W x H x D)</b>	474 mm x 474 mm x 502 mm
<b>WEIGHT</b>	31.5 kg
<b>OPERATING TEMPERATURE</b>	10° to 35° C
<b>OPERATING HUMIDITY</b>	10 to 80 %
<b>SUPPLIED ACCESSORIES</b>	VGA (D-sub 15) to VGA (D-sub 15) cable AC power cord
<b>MANUAL</b>	English, German, French, Italian, Spanish
<b>PACKAGING</b>	Ozone-friendly materials Fully recyclable container

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\* Please check with your PC supplier/graphics card manufacturer that your PC/graphics card is DDC compatible