

## Professional Line

The new FlatAG™ technology from Nokia redefines the performance standards for image precision and clarity for professionals desktop computing

# NOKIA 446 PRO



19" (18" VIS) FD Trinitron® CRT with FlatAG™ Technology

- Horizontal Scan Frequency: 30-107 kHz
- Maximum Resolution: 1600 x 1200 @ 85 Hz
- Aperture Grille Pitch: 0.24mm-0.25mm
- Bandwidth: 230 MHz
- Digital Controls: Comprehensive On-Screen Display Manager
- Approval Standards: TCO '99
- Power Consumption: Exclusive PowerSaver™ Technology

# NOKIA

NOKIA DISPLAYS  
Change Your Point of View

# NOKIA 446PRO

The Nokia 446PRO computer display features the latest display innovation from Nokia— FlatAG™ technology— a unique blending of Nokia's state-of-the-art technology, R & D innovation and advanced manufacturing processes. This technology ensures the best image performance and clarity available in a 19" (18" VIS) professional display. Nokia FlatAG™ technology also ensures superior reliability. Strict manufacturing processes and innovative quality assurance requirements deliver lower failure rates and ensure the optimum performance for the life of the

display. The 446PRO's advanced electron gun and a tight AG (aperture grille) pitch provide better focus, image accuracy and consistency, while the flat CRT surface greatly reduces geometric distortion and glare. The ultra-high scanning capability of the 446PRO allows for rock solid resolutions up to 1600 x 1200 @ 85Hz and the comprehensive digital controls provide easy navigation of the on-screen manager. The Nokia 446PRO is exclusively designed for today's power users who demand the best image quality and performance available in display technology.

## FlatAG™ Technology

The latest display innovation from Nokia— FlatAG™ technology— is a combination of specialized components, R & D design and manufacturing. In developing the PRO series of displays, Nokia engineers strive to develop the sharpest, most accurate image possible while reducing eye strain and user fatigue. By incorporating the latest flat FD Trinitron® CRT, new fast performing video circuitry, and stringent quality process during manufacturing, the Nokia FlatAG™ technology ensures the best possible image performance, color stability and user comfort available today.

## CRT

Size: 19" FD Trinitron™ CRT (18" VIS)  
Aperture Grille Pitch: 0.24mm-0.25mm  
Surface: Exclusive NokiaCoating™  
Anti-Glare and Anti-Static Treatment  
Light Transmission: 38%

## VIDEO AMPLIFIER/BANDWIDTH

Maximum Pixel Frequency: 230 MHz  
Rise/Fall Time: < 5 ns

## VIDEO CONNECTORS

6' Detachable Cable with 15-Pin Mini D-Sub Connector

## FREQUENCY RANGE

Horizontal: 30-107 kHz  
Vertical: 50-150 Hz

## SYNCHRONIZATION

RGB Analog Video: 0-0.7 Vpp  
Separate TTL Sync: Positive & Negative  
Composite TTL Sync: Positive & Negative

## COMPATIBILITY

PC, Macintosh™, and Workstation (Sun™, UNIX®) Applications, Designed for Microsoft™ Windows™ 98, PC99

## CONTROLS

Front Panel Controls: On-Screen Menu, Brightness, Contrast, Soft Power Switch  
On-Screen Menu Controls: Size & Position, Shape, Sharpness, Color and Miscellaneous  
Shape: Default Shape, Tilt, Orthogonality, Trapezoid, Pincushion, and Pincushion Balance  
Sharpness: Default Sharpness, Vertical and Horizontal Convergence and Moire'  
Color: Contrast, Brightness, Default Color, Color Presets (5000K, 6000K, 6500K, 7000K, 8000K, 9300K (factory default), 10000K, Custom, Custom 2) Red-Green-Blue Amplitude  
Miscellaneous: Monitor Defaults, Demagnetize, About Monitor, and Menu Options (Language, OSM Position, and OSM on Time)

## BASE

Tilt Angle: -5 to +20  
Swivel Angle: ±90

## ERGONOMIC & SAFETY APPROVALS

TCO '99, UL, CSA, FI, S, N, D, GOST-R, TUV-GS, TUV-ERGO (MPR90, ISO 9241-3, -7, -8), DHHS/FDA, Polish (PCBC), TUV (ECO Readiness))



## INTERFERENCE APPROVALS

FCC Class B, CE-MARK, VCCI

## INDUSTRY CERTIFICATION

Plug 'N Play  
Display Data Channel According to VESA™/DDC 2AB  
GTF (Generalized Timing Formula)

## POWER SUPPLY

Type: Universal - 90/260 VAC 50/60 Hz  
Power Consumption: <130.0 W On-Mode, <8.0 W Suspend <3.0 W Off-Mode  
PowerSaver™ technology: According to VESA/DPMS  
Power Connection: 6' Detachable Power Cord

## ENVIRONMENTAL SPECIFICATIONS

Operational  
Temperature: +50°F to +90°F;  
Humidity: 20% to 80%  
Non-Operational  
Temperature: -22°F to 140°F  
Humidity: 5% to 90%  
Altitude: 0 to 30,000 ft.

## DIMENSIONS

Display: H: 18.5" W: 18.5" D: 18.3"  
Weight: 55.7 lbs.  
Package: H: 23.6" W: 23.5" D: 22.5"  
Weight: 65.1 lbs.

## WARRANTY

3 Year Limited Warranty, Parts, Labor & CRT

640 x 480	800 x 600	1024 x 768	1280 x 1024	1600 x 1200	1600 x 1280
150Hz	150Hz	129Hz	98Hz	85Hz	80Hz



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