

Professional Line

The new FlatAG™ technology from Nokia redefines large screen performance standards for image precision and clarity for professional desktop computing

NOKIA 445PRO



21" (19.6" VIS) FD Trinitron® CRT with FlatAG™ Technology

- Horizontal Scan Frequency: 29-121kHz
- Maximum Resolution: 1800 x 1440 at 80Hz
- Aperture Grille Pitch: 0.24mm
- Bandwidth: 300 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 445PRO

The Nokia 445PRO computer display features the latest display innovation from Nokia— FlatAG™ technology— a unique blending of Nokia state-of-the-art technology, R & D innovation and advanced manufacturing processes. This technology ensures the best image performance and clarity available in a large screen 21" (19.6" VIS) professional display. Nokia FlatAG™ technology also insures superior reliability. Strict manufacturing processes and innovative quality assurance requirements deliver lower failure rates and the optimum performance for the life of the display. The 445PRO's advanced electron gun and a tight

0.24mm 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 445PRO allows for rock solid resolutions up to 1800 x1440 @ 80Hz and the comprehensive digital controls provide easy navigation of the on-screen manager. The Nokia 445PRO is exclusively designed for power users who demand a large screen format, accurate image clarity, consistent performance, and unwavering reliability and comfort from display technology today.

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 processes during manufacturing, the Nokia FlatAG™ technology ensures the best possible image performance, color stability and user comfort available today.

CRT

Size: 21" FD Trinitron™ CRT (19.6" VIS)
Aperture Grille Pitch: 0.24mm
Surface: Exclusive NokiaCoating™
Anti-Glare and Anti-Static Treatment
Light Transmission: 39%

VIDEO AMPLIFIER/BANDWIDTH

Maximum Pixel Frequency: 300MHz
Rise/Fall Time: <4ns

VIDEO CONNECTORS

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

FREQUENCY RANGE

Horizontal: 29-125 kHz
Vertical: 50-180 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

Size & Position: Auto-Shape, Height,
Width, Horizontal and Vertical Centering
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, Custom1, Custom 2), and
Red-Green-Blue Amplitude

Miscellaneous: Monitor Defaults,
Demagnetize, About Monitor, and Menu
Options (Language, OSM Position,
and OSM on time)

BASE

Tilt Angle: -5° + 16°
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 90/260VAC, 50/60 Hz
Power Consumption: <160.0 W On-Mode,
<10.0 W Suspend, and <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: 20.2" W: 20.3" D: 20.4"
Weight: 70.0 lbs.
Package: H: 26.0" W: 28.3" D: 26.2"
Weight: 80.1 lbs.

WARRANTY

3 Year Limited Warranty, Parts,
Labor & CRT

640 x 480	800 x 600	1024 x 768	1152 x 870	1280 x 1024	1600 x 1200	1800 x 1440
180Hz	180Hz	155Hz	137Hz	116Hz	100Hz	80Hz



*1999 Nokia Corporation. Any rights not expressly granted herein are reserved. Reproduction, transfer, distribution or storage of part or all of the contents in any form without the prior written permission of Nokia is prohibited except in accordance with the following terms. Nokia, the Nokia logo, Flat AG, Navl Key, FullScreen, NokiaCoating and PowerSaver are registered trademarks of Nokia Corporation. Macintosh is a registered trademark of Apple. FD Trinitron is a registered trademark of Sony Corporation. Microsoft and Windows are registered trademarks of Microsoft Corporation. UNIX is a registered trademark of Sun Corporation. VESA is a registered trademark of the Video Electronics Standards Association.