Installstion and Operating instructions

Product Information

Product Features • Technical Specifications • Automatic Power Saving • Physical Specification • Pin Assignment • Product Views

---

Product Features

202P40:

- 22-inch (20.0" VIS) Real Flat color monitor featuring ICE technology for excellent front of screen performance for use with MACs, PCs or Workstations
- Autoscan covers horizontal frequencies up to 130 kHz offering a maximum resolution of 2048 x 1536 with flicker free display of 1600 x 1200 at up to 97 Hz
- Flat aperture grille CRT with high-resolution 0.25 mm stripe pitch.
- Auto Calibrate extends the useful life of the monitor by automatically adjusting color and luminance to original values.
- Large screen display in a small footprint: World's shortest 21-inch Flat monitor with maximum depth of only 466 mm/18.3"
- sRGB for true on screen color representation.
- FCC, CE (in selected countries only) and ISO9241, ISO14001 certified

RETURN TO TOP OF THE PAGE

Technical Specifications*

CRT

• Size and deflection	21 inch / 51 cm ; 90° deflection angle
• Dot pitch / Grille pitch	0.25 mm
• Horizontal pitch	
• Tube type	Aperture grille, flat, high contrast, anti-glare, anti-static, anti reflection, light transmission 41%
• Phosphor	P22
• Recommended display area	15.4" x 11.6" / 392 x 294 mm
• Maximum display area	16.0" x 12.0" / 406 x 305 mm

SCANNING

• Horizontal scanning	30 - 130 KHz
• Vertical scanning	50 - 160 Hz

VIDEO

• Video dot rate	320 MHz
• Input impedance	

- Video	75 ohm
- Sync	2.2 kOhm
• Input signal levels	0.7 Vpp
	Separate sync
• Sync input signal	
	Composite sync
• Sync polarities	Positive and negative

WHITE COLOR TEMPERATURE

Chromaticity CIE coordinates:

• at 9300 K degrees	x = 0.283 / y = 0.297
• at 6500 K degrees	x = 0.313 / y = 0.329
• at 5500 K degrees	x = 0.332 / y = 0.347

sRGB

sRGB is a standard for ensuring correct exchange of colors between different devices (e.g. digital cameras, monitors, printers, scanners, etc.)

Using a standard unified color space, sRGB will help represent pictures taken by an sRGB compatible device correctly on your sRGB enabled Philips monitors. In that way, the colors are calibrated and you can rely on the correctness of the colors shown on your screen.

Important with the use of sRGB is that the brightness and contrast of your monitor is fixed to a predefined setting as well as the color gamut. Therefore it is important to select the sRGB setting in the monitor's OSD.

To do so, open the OSD by pressing the OK button on the front of your monitor. Use the down button to go to Color temperature and press OK again. Then move the down button to go to sRGB and press OK again.

Exit this OSD.

After this, please don't change the brightness or contrast setting of your monitor. If you change either of these, the monitor will exit the sRGB mode and go to a color temperature setting of 9300K.

For more information on sRGB, please visit: www.srgb.com

** These information are subject to change without notice.*

RETURN TO TOP OF THE PAGE

Automatic Power Saving

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. And if an input from a keyboard, mouse or other input device is detected, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power saving features:

Power Management Definition						
VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	Typical 140 W	0 %	Green
Stand-by	Blanked	No	Yes	< 2 W	97 %	Yellow
Suspend	Blanked	Yes	No	< 2 W	97 %	Yellow
OFF	Blanked	No	No	< 2 W	97 %	Yellow

This monitor is ENERGY STAR® compliant. As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

RETURN TO TOP OF THE PAGE

Physical Specifications

• Dimensions	19.7" x 19.7" x 18.3" / 501 x 501 x 466 mm (including base) 19.7" x 18.1" x 18.3" / 501 x 461 x 466 mm (excluding base)
• Weight	29 kg
• Power supply	90 - 264 VAC, 50/60Hz
• Temperature (operating)	0° to 35°C / 32° to 95°F
• Temperature (storage)	-25° to +65°C / -13° to +149°F
• Relative humidity	5% to 95%

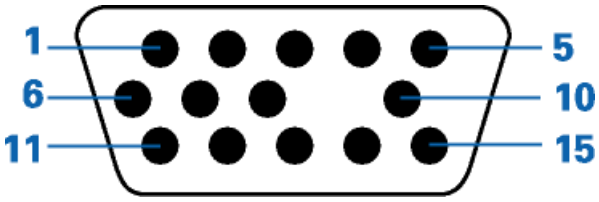
** Resolution 1280 x 1024, standard size, contrast max., brightness 50%, 9300°, full white pattern.*

** These information are subject to change without notice.*

RETURN TO TOP OF THE PAGE

Pin Assignment

The 15-pin D-sub connector (male) of the signal cable (IBM systems):



Pin No.	Assignment		Pin No.	Assignment
1	Red video input		9	No pin
2	Green video input		10	Logic ground
3	Blue video input		11	Identical output - connected to pin 10
4	Identical output - connected to pin 10		12	Serial data line (SDA)
5	Ground		13	H. Sync / H+V
6	Red video ground		14	V. Sync (VCLK for DDC)
7	Green video ground		15	Data clock line (SCL)
8	Blue video ground			

RETURN TO TOP OF THE PAGE

Views

Follow the links to see various views of the monitor and its components.

Front View

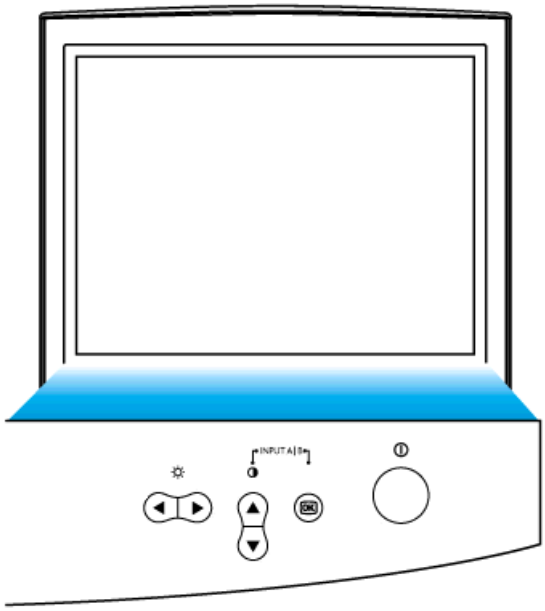
Rear View

RETURN TO TOP OF THE PAGE

Installing your Monitor

Front View • Rear View

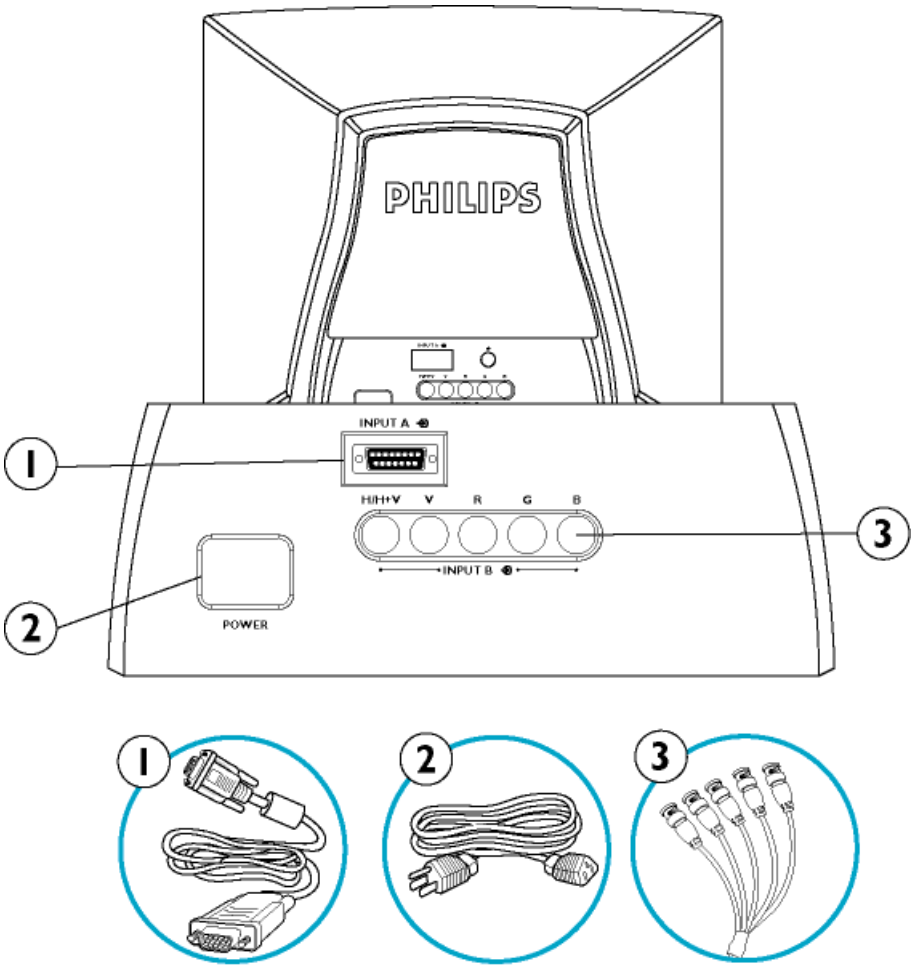
Front View



	Power button switches your monitor on.
	OK button which when pressed will take you to the OSD controls
	Contrast hotkey. When the UP arrow is pressed, the adjustment controls for the CONTRAST will show up.
	UP and DOWN buttons are used when adjusting the OSD of your monitor
	Brightness hotkey. When the RIGHT arrow is pressed ,the adjustment controls for BRIGHTNESS will show up.
	LEFT and RIGHT buttons, like the UP and DOWN buttons, are also used in adjusting the OSD of your monitor.
INPUT A|B	By pressing both the UP and OK buttons, you can easily access the Input Signals A and/or B.

RETURN TO TOP OF THE PAGE

Rear View



1. D-Sub Port - Attach the D-Sub connector that comes with your monitor here. Other end connects to your PC.

2. Power in - Attach power cable here.

3. BNC Connectors - Attach the connectors here to get the best video performance from your monitor.

RETURN TO TOP OF THE PAGE

Regulatory Information

TCO '99 Information • TCO Environmental Requirements • Energy Star Declaration • Federal Communications Commission (FCC) Notice (U.S. Only) • Commission Federale de la Communication (FCC Declaration) • EN 55022 Compliance (Czech Republic Only) • VCCI Class 2 Notice (Japan Only) • MIC Notice (South Korea Only) • Polish Center for Testing and Certification Notice • North Europe Information • BSMI Notice (Taiwan Only) • Ergonomie Hinweis (nur Deutschland) • Philips End-of-Life Disposal • Information for UK only

Safety Precautions and Maintenance • Troubleshooting • Other Related Information

---

TCO '99 Information

• TCO '99 : Available on 105S, 105B, 107S, 107T, 107B, 107P, 109S, 109B, 109P, 201B, 201P and 202P

Congratulations! You have just purchased a TCO '99 approved and labeled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

Why do we have environmentally labeled computers?

In many countries, environmental labeling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labeling involve?

This product meets the requirements for the TCO'99 scheme which provides for international and environmental labeling of personal computers. The labeling scheme was developed as a joint effort by the TCO (The Swedish

This monitor is equipped with a function for saving energy which supports the VESA Display Power Management Signaling (DPMS) standard. This means that the monitor must be connected to a computer which supports VESA DPMS to fulfill the requirements in the NUTEK specification 803299/94. Time settings are adjusted from the system unit by software. From indicated inactivity to Power Saving Position A2, the total time must not be set to more than 70 minutes.

NUTEK	VESA State	LED Indicator	Power Consumption
Normal operation	ON	Green	< 140 W
Power Saving Position A1	Suspend	Yellow	< 2 W
Power Saving Position A2	OFF	Yellow	< 2 W

As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

We recommend you switch off the monitor when it is not in use for quite a long time.

RETURN TO TOP OF THE PAGE

Federal Communications Commission (FCC) Notice (U.S. Only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

RETURN TO TOP OF THE PAGE

Commission Federale de la Communication (FCC Declaration)

Cet équipement a été testé et déclaré conforme auxlimites des appareils numériques de class B,aux termes de l'article 15 Des règles de la FCC. Ces limites sont conçues de façon à fourir une protection raisonnable contre les interférences nuisibles dans le cadre d'une installation résidentielle. CET appareil produit, utilise et peut émettre des hyperfréquences qui, si l'appareil n'est pas installé et utilisé selon les consignes données, peuvent causer des interférences nuisibles aux communications radio. Cependant, rien ne peut garantir l'absence d'interférences dans le cadre d'une installation particulière. Si cet appareil est la cause d'interférences nuisibles pour la réception des signaux de radio ou de télévision, ce qui peut être décelé en fermant l'équipement, puis en le remettant en fonction, l'utilisateur pourrait essayer de corriger la situation en prenant les mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur un autre circuit que celui utilisé par le récepteur.
- Demander l'aide du marchand ou d'un technicien chevronné en radio/télévision.

Toutes modifications n'ayant pas reçu l'approbation des services compétents en matière de conformité est susceptible d'interdire à l'utilisateur l'usage du présent équipement.

N'utiliser que des câbles RF armés pour les connections avec des ordinateurs ou périphériques.

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

RETURN TO TOP OF THE PAGE

EN 55022 Compliance (Czech Republic Only)