Monitor Tester

This program will guide you in setting the parameters, controls and adjustments of the monitor and will guide you on how to measure picture quality.

You can test and adjust:

Geometry
Picture size and position
Convergence
White balance
Brightness and Contrast
Focus
Colour purity
Moiré

Control
Testing and adjustments of monitor
About Monitor Tester

Control

Use control panel to choice respective test patterns, (click with the left mouse button). To hide control panel click "X" button. To show again click icon in the right corner or use right mouse button to show contest menu.   All tests are available in contest menu (click with the right mouse button)
F1 – help.

Monitor Tester
Adjustment and testing of the monitor
About Monitor Tester

About Monitor Tester

Version: 1.0.5
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Visit my page www.geocities.com/tvdarekz/
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Polish version of Monitor Tester
Polska wersje programu mozna pobrac z internetu ze strony:
www.geocities.com/tvdarek lub www.free.poltronic.net/~tvdarekz/gratis.htm
Autorem jest: *Dariusz Zamlynski*
Aplikacja ta jest freeware, mozna ja bezplatnie uzywac i rozpowszechniac.

Odwiedz moja strone w internecie: www.servicetv.republika.pl/
Pobierz inne programy i gry freeware ze strony: www.geocities.com/tvdarek
Jesli masz uwagi i sugestie odnosnie programu napisz e-mail: tvdarek@poczta.pnet.pl

Monitor tester
Control
Adjustment and testing of the monitor

Adjustment and testing of monitor

Choice category:

[Geometry](#)
[Colour](#)
[White balance](#)
[Resolution, Moiré](#)
[Focus](#)
[Convergence, colour purity](#)
[High voltage regulation test](#)

Geometry

The geometry parameters are affected by the resolution you use on your monitor. You will have to adjust your monitor for all the different resolutions you use.
Use "Tv test" pattern to check picture size and position.
Adjust other parameters: trapezoid, tilt, rotation, pincushion and barrel
The inner circle in "Tv test" should be perfectly round.

Adjustments and testing of the monitor
Monitor Tester
Control
About Monitor Tester

Colour

This tester contains test patterns of primary colour and secondary colour:
Primary colours: red, green or blue.
Secondary colours: magenta, yellow, and cyan

B

G

R

Adjustments and testing of the monitor
Monitor tester
Control
About Monitor Tester

White balance

Monitors use what is called "additive colour mixing".
This is due to the fact that if we add red, green and blue light together we get white.
Together the phosphors will then emit white light.
Use grey scale to adjust white balance .

Adjustments and testing of the monitor
Monitor tester
Control
About Monitor Tester

Resolution, Moiré and interference

Moiré is a natural interference phenomenon that appears on all colour CRT monitors.
It is due to an interference between the shadow mask
Look for waves, wisps, bundles and shimmers of intensity variations. Use all the test
tools to check for moiré, as the visibility of moiré patterns varies with colours.

Adjustments and testing of the monitor
Monitor Tester
Control
About Monitor Tester

Focus

A badly focused monitor gives rise to beam spread, especially in the corners.
Focus is not the only effect that influences the image sharpness, other main reasons are convergence, blooming, the video amplifier's bandwidth, and resolution.
watch out for differences between the centre and the corners.

Adjustments and testing of the monitor
Monitor Tester
Control
About Monitor Tester

Convergence, colour purity

A white line on the screen consists of three coloured lines: Red, green and blue. If the screen does not have any convergence error the lines are exactly overlaid each other, and the resulting colour is white.
   NO MISCONVERGENCE
In case of a convergence error separate red, green and blue lines can be seen, instead of one white. It is similar to an out of FOCUS image, except that you will see thin coloured fringes around the edges of image detail.
Generally the convergence will be best near the centre, and worst in the corners. As you can see misconvergence also has a bad influence on FOCUS.

Use primary colour to check purity.
Degauss the screen
Stray magnetic fields, and various external magnetic fields, will affect the colour purity of colour monitors. Whenever the monitor is moved or rotated in place it is subjected to a change in the earth's magnetic field, which also affects the colour purity. Degaussing removes the effects of all magnetic field changes.

[Adjustment and testing of the monitor](#)
[Monitor Tester](#)
[Control](#)
[About Monitor Tester](#)

High-voltage regulation

On some monitors the image expands in bright areas and contracts in dimmer areas. This happens because the monitor has a poor high-voltage regulation. This effect is more or less visible in all monitors, but normally more so in very cheap monitor models, as it is not inexpensive to design and manufacture a very good high-voltage regulation system.

Adjustment and testing of monitor
Monitor Tester
Control
About Monitor Tester