

Picture adjustments

- Press **3** in the Monitor service menu to gain access to picture adjustments:

Picture adjustments

- 1 Rdr XX
- 2 Gdr XX
- 3 Bdr XX
- 4 Rcu XX
- 5 Gcu XX
- 6 Bcu XX
- 7 PDL XX

- Red drive 0 - 63
- Green drive 0 - 63
- Blue drive 0 - 63
- Red cut-off balance 0 - 63
- Green cut-off balance 0 - 63
- Blue cut-off balance 0 - 63
- Peak Drive Level 0 - 63

Picture adjustment shall only be made in format 1/(14:9).

- Connect a standard 4:3 test pattern (e.g. Philips).
Select picture adjustments with a digit (1 - 7) and adjust by pressing **▲** or **▼**. During the adjustment procedure it is possible to select a new picture adjustment by means of **◀** or **▶**. Store the adjustment by pressing **GO**, and select a new adjustment or end the menu by pressing **STOP**. The **EXIT** key will get you out of service menus.

Drive

- Adjust the brilliance to the nominal value: Brilliance 32.
Remove the colour saturation: 00.
Adjust the red and green drive (Rdr and Gdr) to correct white level.
Bdr may be used only if correct adjustment cannot be achieved by means of Rdr and Gdr.

Cut-off balance

Adjust the brilliance to the nominal value: Brilliance 32.
Remove the colour saturation: 00.

- Adjust the red and green cut-off balance (Rcu and Gcu) so that the dark fields in the test pattern become colourless.
Bcu may be used only if correct adjustment cannot be achieved by means of Rcu and Gcu.

Peak Drive Level (PDL)

Adjust the Peak Drive Level to 20.

Earth field correction

- Press **9** in the monitor service menu to gain access to the earth field correction:

Earth field correction

- | | | |
|----------------|----|--------|
| 1 Top skew | XX | 0 - 63 |
| 2 Bottom skew | XX | 0 - 63 |
| 3 Compensation | On | |

Connect a standard 4:3 test pattern (e.g. Philips).

The Compensation line must always be set to On, but if a faulty geometry in the picture occurs it can be set to Off, to determine if the fault is in the earth field compensation circuit or in the deflection circuits.

- Select the "Top skew" line, and adjust by pressing **▲** or **▼** until the horizontal lines at the top of the picture are in horizontal position. Store the adjustment by pressing **GO**.
- Select the "Bottom skew" line, and adjust by pressing **▲** or **▼** until the horizontal lines at the bottom of the picture are in horizontal position. Store the adjustment by pressing **GO**.

Geometry adjustments

- Press **4** in the Monitor service menu to gain access to the geometry adjustments:

Geometry adjustments		
1	Hph XX	Horizontal phase 0 - 64
2	Ham XX	Horizontal amplitude 0 - 90
3	Vam XX	Vertical amplitude 0 - 90
4	Vsc XX	Vertical s-correction 0 - 80
5	Vsh XX	Vertical shift/centring 0 - 90
6	Vli XX	Vertical linearity 0 - 60
7	EWc XX	East/West corner 0 - 60
8	EWp XX	East/West parabola 0 - 75
9	EWt XX	East/West trapeze 0 - 60
10	Top XX	Top compensation 0 - 60

1	Hph XX	Horizontal phase 0 - 64
2	Ham XX	Horizontal amplitude 0 - 90
3	Vam XX	Vertical amplitude 0 - 90
4	Vsc XX	Vertical s-correction 0 - 80
5	Vsh XX	Vertical shift/centring 0 - 90
6	Vli XX	Vertical linearity 0 - 60
7	EWc XX	East/West corner 0 - 60
8	EWp XX	East/West parabola 0 - 75
9	EWt XX	East/West trapeze 0 - 60
10	Top XX	Top compensation 0 - 60

- Geometry adjustments only have to be made in formats 1 and 6. Connect a standard test pattern (e.g. Philips) to the selected format. Select geometry adjustment with a digit (1 - 10), and adjust by pressing **▲** or **▼**. During the adjustment procedure it is possible to select a new geometry adjustment by pressing **◀** or **▶**. Store the adjustment by pressing **GO**, and select a new adjustment or end the menu by pressing **STOP**. The **EXIT** key will get you out of service menus.

Horizontal centring/phase (Hph)

- Set the brilliance to the maximum value: Brilliance 62.
- Adjust the horizontal amplitude to the minimum width: Ham 90.
- If necessary, centre the picture as well as possible using 5S1 (coordinate 7E) in picture format 6 (see the section on Format).
- Centre the picture with horizontal phase (Hph) as a fine adjustment. Adjust the horizontal amplitude (Ham) to the correct width. Readjust the horizontal phase (Hph), if necessary.

Horizontal amplitude (Ham)

- Adjust the horizontal amplitude (Ham) to the correct width (see the section Horizontal centring/phase (Hph)). There is a black bar at both sides of the visible picture.
- Format 1 (14:9) = 8.6 cm/3.4" at each side.

Vertical amplitude (Vam)

- Adjust the vertical amplitude (Vam) so that the picture fits at the top and bottom.

Vertical s-correction (Vsc)

- Adjust the vertical s-correction until the horizontal lines are equally distanced at the centre as well as at the bottom/top of the picture.

Vertical centring (Vsh)

Adjust the vertical shift/centring until the centre of the picture is at the centre of the screen.

Vertical linearity (Vli)

- Adjust the vertical linearity until the horizontal lines at the top and bottom of the picture are equally distanced.

East/West corner (EWc)

- Adjust the East/West corner (EWc) to the correct geometry at the corners.

East/West parabola (EWp)

- Adjust the East/West parabola (EWp) to the correct geometry at the sides.

East/West trapeze (EWt)

- Adjust the East/West trapeze (EWt) to the correct geometry.

Top compensation (Top)

- Adjust the top compensation until the vertical lines at the top of the picture are as straight as possible.