CADALYST LABS

Table Monitor Features (continued on p. 62)

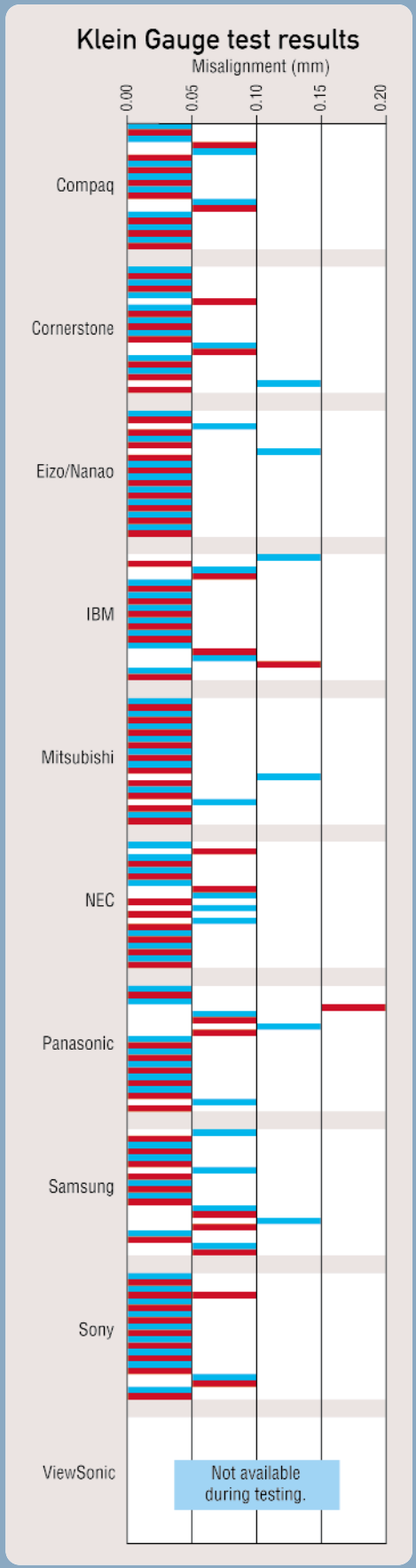
	Compaq P1100	Cornerstone P1500	Eizo/Nanao FlexScan F930	IBM P260
Star rating	★★★★★	★★★★★	4 stars	★★★★★
Phone	800.245.1518	800.562.2552	800.800.5202	800.426.7255
E-mail	N/A	sales@cptmail.com	support@eizo.com	N/A
Web site	www.compaq.com	www.monitorsdirect.com	www.eizo.com	www.ibm.com
InfoQuick Web #	**226**	**227**	**228**	**229**
Estimated street price	$1,099	$849	$1,369	$1,059
Warranty (years/labor/parts/CRT)	3/3/3 (on site)	5/5/5 (upgradable to 5 on site)	3/3/3	3/3/3
Nominal/measured screen size	21″/19.8″	21″/20″	21″/19.7″	21″/19.8″
Size (w×h×d)	19.8″ × 19.9″ × 19.4″	19.5″ × 19.3″ × 18.8″	19.4″ × 19.1″ × 20.5″	19.6″ × 19.9″ × 20″
Weight (lb)	70.4	60.5	63.8	70.6
Screen type	Aperture grille	Invar shadow mask	Invar shadow mask	Aperture grille
Dot pitch/slot pitch (mm)	0.24	0.22	0.25	0.24
Bandwidth (dot clock)	297MHz	230MHz	260MHz	300MHz
Horizontal range	30–121KHz	31–107KHz	30–130KHz	30–121KHz
Vertical range	50–160Hz	50–160Hz	50–160Hz	40–160Hz
Maximum refresh rate				
Highest resolution	1920×1440@75Hz	1600×1280@80Hz	2048×1536@80Hz	1920×1440@75Hz
1800×1440	75Hz	N/A	86Hz	75Hz
1600×1200	95Hz	85Hz	104Hz	85Hz
1280×1024	110Hz	97Hz	121Hz	85Hz
1024×768	140Hz	131Hz	160Hz	85Hz
Connections (BNC, D-sub)	D-sub (2), USB (in base)	D-sub (2), USB optional	BNC/D-sub, USB	D-sub/DVI (digital)
Image quality (rate 1–5; 5 is best)				
Brightness	5	5	5	5
Contrast	5	5	4.5	5
Focus	5	5	5	5
Purity	4.5	5	4	4.5
Geometric distortion	5	5	4.5	5
Raster rotation	5	5	4.5	5
Misconvergence test	4.80	4.70	4.85	4.55

Table Monitor Features (continued)

	Panasonic PanaSync/Pro P110I	Samsung SyncMaster 1100pPlus	Sony Multiscan F500R	ViewSonic PF815
Star rating	4 stars	★★★★★	4.5 stars	★★★★★
Phone	800.726.2797	800.726.7864	800.352.7669	800.888.8583
E-mail	N/A	N/A	N/A	N/A
Web site	www.panasonic.com	www.samsungmonitor.com	www.sony.com/displays	www.viewsonic.com
Info Quick Web #	**232**	**233**	**234**	**235**
Estimated street price	$1,099	$899	$1,899.99	$999 (MSRP)
Warranty (years/labor/parts/CRT)	3/3/3 (first on site)	3/3/3 (first on site)	3/3/3	3/3/3, 48hr. replace opt.
Nominal/measured screen size	21″/20″	21″/20″	21″/19.8″	22″/20″
Size (w×h×d)	19.6″ × 18.8″ × 19.5″	19.8″ × 20″ × 19.4″	19.8″ × 20″ × 18.7″	19.8″ × 19.7″ × 18.8″
Weight (lb)	59.4	57.6	70.5	70.5
Screen type	Invar shadow mask	Invar shadow mask	Aperture grille	Aperture grille
Dot pitch/slot pitch (mm)	0.25	0.25	0.22	0.25 center/0.27 corner
Bandwidth (dot clock)	250MHz	280MHz	N/A	300MHz
Horizontal range	30–117KHz	30–115KHz	30–121KHz	30–117KHz
Vertical range	50–160Hz	50–160Hz	48–160Hz	50–180Hz
Maximum refresh rate				
Highest resolution	1800×1440@70Hz	1800×1440@75Hz	2048×1536@75Hz	1920×1440@75Hz
1800×1440	70Hz	75Hz	80Hz	77Hz
1600×1200	85Hz	85Hz	85Hz	92Hz
1280×1024	106Hz	85Hz	85Hz	107Hz
1024×768	139Hz	85Hz	85Hz	140Hz
Connections (BNC, D-sub)	BNC/D-sub	BNC/D-sub	BNC/D-sub, USB	BNC/D-sub
Image quality (rate 1–5; 5 is best)				
Brightness	4.5	5	5	5
Contrast	5	4.5	5	5
Focus	4	4.5	5	5
Purity	3	5	4.5	5
Geometric distortion	5	5	5	5
Raster rotation	3.5	4.5	5	5
Misconvergence test	4.55	4.55	4.85	N/A

Mitsubishi Diamond Pro 2040u	NEC MultiSync FP1370
★★★★★	4.5 stars
800.843.2515	800.632.4636
N/A	tech-support@nectech.com
www.mitsubishi-display.com	www.nectech.com
230	**231**
$1,329	$1,299
3/3/3	3/3/3
22″/20″	22″/20″
19.7″ × 19.7″ × 19″	19″ × 19.7″ × 18.6″
68.3	71.4
Aperture grille	Aperture grille
0.24	0.24
240MHz	280MHz
30–121KHz	31–130KHz
50–160Hz	55–160Hz
2048×1536@75Hz	2048×1536@85Hz
85Hz	85Hz
96Hz	92Hz
112Hz	107Hz
150Hz	143Hz
BNC/D–sub, USB (2 up, 3 down)	BNC/D–sub, USB
5	5
5	5
5	5
5	5
5	5
5	5
4.85	4.75

The Klein Gauge

A Klein gauge is a sensitive and expensive ($1,000+) instrument for measuring misalignment of the three primary colors (red, green, and blue) that create images on a monitor's CRT. In particular, it measures how far the red and green "dots" are misaligned from the blue "dots" in a thin white line. Ideally, all three colors should line up on the face of the CRT to produce a pristine white line.

The Klein Gauge chart attempts to graphically indicate the measured misalignment of our test monitors. We checked the alignment of red and green for vertical and horizontal lines at five places on the screen: top left, bottom left, center, bottom right, and top right. This gave us the 20 measurements for each monitor shown in the chart. We also converted the results to a single test score shown in the features table starting on p. 60, where 5.0 is a perfect score—no measured misalignment greater than 0.05mm. *—A.L.*