

# IBM Displays (P series / 95xx)

SUPER VGA COLOR (Premium)							
Name	14P	15P	15P Black	15P DDC	17P	17P	21P
Type-model	9524-001	9525-001	9525-B01	9525-0X1	9527-001	9527-011	9521-001
Screen	14"	15" FST			17" Trinitron		21" Diamndtrn™
Actual viewable diagonal size	13.0" / 331mm	13.7" / 348 mm	Same as 15P	Same as 15P	15.4" / 391 mm	Same as 001	19.1" / 485 mm
Type	SVGA color	SVGA color	except the color is black	except is DDC1	SVGA color	Same	SVGA color
Dot pitch (mm)	.28	.28	(not pearl white)	and DDC2B compliant	.26 stripe	Same	.31 stripe
Viewing area (inches)	10.0 x 7.6"	10.5 x 8.0"			11.8 x 8.8"	Same	15.0 x 11.2"
Max view area (inches)	10.6 x 8.0"	11.0 x 8.3"			12.4 x 9.3"	Same	15.5 x 11.5"
Viewing area (mm)	256 x 193	266 x 201	Appropriate for black		300 x 225	Same	380 x 285
Max view area (mm)	270 x 202	280 x 210			315 x 235	Same	395 x 292
Frequency	<b>Multiscanning</b>	<b>Multiscanning</b>	ThinkPads®	Same as 15P	<b>Multiscanning</b>	Same	<b>Multiscanning</b>
Vertical refresh rate range	50 to 110 Hz	50 to 110 Hz	and black docking stations	Same	50 to 110 Hz	Same	50 to 152 Hz
Horizontal line rate range	30 to 64 kHz	30 to 64 kHz		Same	30 to 82 kHz	Same	30 to 82 kHz
Maximum pel rate	90 MHz	90 MHz		Same	160 MHz	Same	175 MHz
640 x 480 NI (presets)	60, 72, 75, 85	60, 72, 75, 85	Same as 15P	Same	60,72,75,85,98	Same	60,72,75,85,98
800 x 600 NI (presets)	56, 60, 72 Hz	56, 60, 72 Hz	Same	Same	56,60,72,85,99	Same	56,60,72,85,99
1024 x 768 NI (presets)	60, 70, 72, 75	60, 70, 72, 75	Same	Same	60,70,72,75,93	Same	60,70,72,75,93
1024 x 768 I (presets)	I 43.5	I 43.5	Same	Same	I 43.5	Same	I 43.5
1280 x 1024 NI or I (presets)	I 50, NI 60	I 50, NI 60	Same	Same	I 50, NI 60, 77	Same	I 50, NI 60, 77
1360 x 1024 NI or I (presets)	-	-	Same	Same	NI 77	Same	NI 77
1600 x 1200 NI	-	-	Same	Same	-	Same	NI 60
3270 MFI emulation modes	2, 3, 4, 5	2, 3, 4, 5	Same	Same	2, 3, 4, 5	Same	2, 3, 4, 5
Emission	MPR-II	MPR-II	Same	Same	MPR-II	Same	MPR-II
ISO 9241-3	ISO 9241-3	ISO 9241-3	Same	Same	ISO 9241-3	Same	ISO 9241-3
Lift/tilt/swivel option	Lift option	Lift option	Same	Same	No (too big)	Same	No (too big)
Brightness/contrast control	Digital	Digital	Same	Same	Digital	Same	Digital
Picture width/height control	Digital	Digital	Same	Same	Digital	Same	Digital
Horizontal/vertical centering	Digital	Digital	Same	Same	Digital	Same	Digital
Trapezoidal/pincushion adj	Digital	Digital	Same	Same	Digital	Same	Digital
Color tint (red, green, blue)	Continual (r,b)	Continual (r,b)	Same	Same	Continual (r,b)	Same	Continual (r,g,b)
Color tint reset button	Reset button	Reset button	Same	Same	Reset button	Same	Reset button
5 BNC connectors	No	No	Same	Same	<b>5 BNC</b>	Same	<b>5 BNC</b>
Apple/RS/6000/Sun attach	No	No	Same	Same	<b>Apple attach</b>	Same	<b>Apple attach</b>
Horz converg adj button	No	No	Same	Same	Horz converg	Same	Horz converg
Vert converg adj button	No	No	Same	Same	Vert converg	Same	No
Rotation adjustment button	No	No	Same	Same	No	<b>Rotation button</b>	<b>Rotation button</b>
Converg/rotation reset buttn	No	No	Same	Same	Reset button	Same	Reset button
Degauss button	No	No	Same	Same	Degauss buttn	Same	Degauss button
Microprocsr (detects modes)	Microprocessr	Microprocessr	Same	Same	Microprocessr	Same	Microprocessr
Factory preset modes	15	15	Same	Same	14	Same	12
Ability to save a new setting	Automatic	Automatic	Same	Same	Automatic	Same	Automatic
User modes that can save	11	11	Same	Same	16	Same	10
Total recallable modes	26	26	Same	Same	30	Same	22
Prevent overwriting presets	Yes	Yes	Same	Same	Yes	Same	Yes
Geometry reset button	Reset button	Reset button	Same	Same	Reset button	Same	Reset button
Auto-borderless	No	No	Same	Same	No	<b>Auto-borderles</b>	No
Focus adjustment	Single	Single	Same	Same	None	None	None
DDC1/DDC2B	No	No	Same	<b>DDC1/DDC2B</b>	No	Same	No
DPMS compliant	DPMS comp	DPMS comp	Same	Same	DPMS comp	Same	DPMS comp
Power management	NUTEK 8 watt	NUTEK 8 watt	Same	Same	NUTEK 8 watt	Same	NUTEK 8 watt
Power mgmt flashing LED	Flashing LED	Flashing LED	Same	Same	Flashing LED	Same	Flashing LED
Power mgmt on/off switch	No	No	Same	Same	No	No	Yes
Available date	July 93	July 93	Oct 93	Nov 94	Sept 93	May 94	Sept 93
Warranty	<b>3 year</b>	<b>3 year</b>	<b>3 year</b>	<b>3 year</b>	<b>3 year</b>	<b>3 year</b>	<b>3 year</b>
Price (retail USD)	\$ 570 ↘	\$ 762 ↘	\$ 762 ↘	\$ 780	\$ 1,260 ↘	\$ 1,260	\$ 2,340 ↘

**952x "P" DISPLAYS WARRANTY SERVICE SUPPORT**

- ↪ 3 year warranty
- ↪ On-site first year
- ↪ Mail-in repair second & third year (with option of upgrade to on-site)
- ↪ All cities in all states
- ↪ 24 hr/7 day service coverage 1st yr
- ↪ 4 hr average response time (1st yr)
- ↪ Option to upgrade yrs 2 and 3 to: 9-5 Mon-Fri cov, next day resp or 24 hr/7 day coverage, 4 hr resp
- ↪ 24 hour / 7 day telephone support
- ↪ 24 hour / 7 day bulletin board
- ↪ 24 hour / 7 day fax support
- ↪ IBM® or dealer warranty/service
- ↪ 30 day money back guarantee

**952x = 14P, 15P, 17P, 21P**

**STANDARD FEATURES 95xx**

- Universal power supply
- Anti-static screen
- Anti-glare screen
- Tilt/swivel stand
- Automatic degauss

9524 (14P) is the successor to the 8518 and 9518.  
 9525 (15P) is the successor to the 8515 and 9515.  
 9527 (17P) is the successor to the 8517 and 9517.

The 952x displays are **multi-sync** (multifrequency, multiscanning, variable frequency, autosyncing) displays and are capable of any modes whose refresh rates fall within the displays range. Preset modes (listed in *italics*) allow the picture on screen to be perfectly positioned without adjustment.

17P and 21P (and 17PT, 21PT) incorporate special sync processing which allows connection to Apple® Macintosh® systems via optional cables or cable adapters. The 17P and 21P can also connect to the RS/6000® and other workstations such as Sun® and Unisys®.

952x also have 720 x 350 and 720 x 400 text modes at 70 & 88 Hz (NI).

Premium displays (85xx and 952x - P Series) and Value displays (63xx -V Series) work on all IBM system brands and on non-IBM brands.

**Auto-borderless** (17P-011): if operating in a factory preset mode, the auto-borderless function expands the image to fill the entire screen when the geometry reset button is pressed and held for 6 seconds

↘ Products announced October 1994      ↘ Price decrease effective June 15, 1994      No warranties are expressed or implied in this summary  
 All trademarks are the property of their respective owners (listed on Trademark sheet)      I = Interlaced; NI = Non-interlaced      (DISPP) Compiled by Roger Dodson, IBM. October 1994