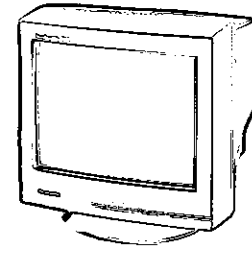


# PanaSync 17 Inch Displays



## PanaSync 17" Displays

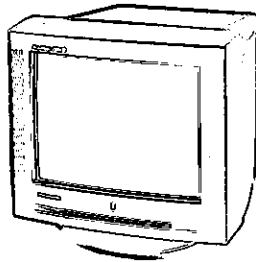
Our 17" class monitors have always been a step ahead, but we haven't stopped improving upon them.

Consider our award winning S17. We enhanced an almost perfect monitor and created the S70. It has all of the features of the S17 with higher refresh rates, TC092 compliance and rotation control. This kind of dedication to perfection is why our 17" class monitors are constantly receiving industry praise. Take a look at our specifications and then take a look at our price. You'll be pleasantly surprised.

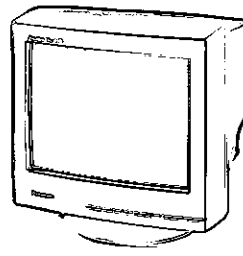
## PanaSync™ S70

<b>CRT</b>	Screen Size	17" CRT (16.0"/40.6 cm Viewable Image Size) Flat-Square
	Dot Pitch	0.27mm
	Surface	NEW AGRAS™ COAT
<b>Viewable Display Area (HxV)</b>	Factory Preset	11.81" x 8.86", 14.8" diagonal
	Full Scan	12.80" x 9.60", 16.0" diagonal (typical)
<b>Input</b>	Video Signal	RGB analog (0.7 Vp-p, 1.0 Vp-p with sync on green, 75 ohms)
	Sync Signal	H/V separate (TTL), H/V Combined, or Sync on Green
	H-Sync	30-70kHz
	V-Sync	50-180Hz
	Modes	1 Factory Presets, 7 Reservations 13 User Memories
<b>Connector &amp; Cables</b>	Video Input	One 15-pin Male Mini D-Sub on attached cable (4.92'/1.5 meters)
	Audio Input	—
	Microphone Output	—
	Mac Adapter Power	Available On Request, Free of Charge One UL 3-pole (CEE 22 type) (5.91'/1.8 meters)
<b>Controls</b>	Front Panel	1 (menu) key, Left key, Right key 2 key, Power Switch (On/Off)
	Indicators	LED power indicator Green=On, Yellow=Power-saving mode
<b>On-Screen Menu</b>		<ul style="list-style-type: none"> <li>• Contrast (Direct Operation) • Brightness (Direct Operation) • Size &amp; Position: (H. Position, H. Size, V. Position, V. Size) • Geometry: (V. Pincushion, Balance, Trapezoid, Parallelogram) • Tilt (Rotation) • Color Temperature (9,300 + 8 MPCD / 7500K / 6500K / 5000K / User Color) • Recall (Factory Setting) • Video Level (0.7/1.0 V p-p) • Language (English, French, German, Spanish &amp; Italian) • OSD Position (6 positions) • Degauss • Disp. Frequency • Video Level (0.7/1.0 V p-p) • Monitor Self-Test (w/ No-Signal Input)</li> </ul>
<b>Video</b>	Bandwidth	108MHz (typical)
	Resolution (HxV)	1,280 dots x 1,024 lines 60Hz NI FCC Class B, Max. 1,280 dots x 1,024 lines 66Hz NI FCC Class A, Max. *
<b>Operating Conditions</b>	Temperature	32-104 degrees F
	Humidity	5% - 90% Non-condensing
<b>Dimensions</b>		16.1" (W) x 16.4" (H) x 17.5" (D)
<b>Weight</b>		38.5 lbs
<b>Approvals</b>		UL, CSA, DHHS, HC(HWC), TCO 92, MPR II, FCC Class B, CE, TUV/GS, NORDIC, ISO9241-3/-8, IC-B(DOC-B), WCCI Class B, VESA DPMS/Energy Star
<b>Power Consumption</b>	Supply	90 to 132, 198 to 264V AC (50 or 60Hz), Auto Switch
	On	95 Watts (Typical)
	Standby	<15 Watts
	Suspend Off	<15 Watts <4 Watts
<b>Warranty</b>		3 Years Limited Parts & Labor, 1 Year On-Site Replacement (see your dealer for details)
<b>Other</b>		Windows™ 95 Plug & Play 24-hour/7-day customer service 48-hour Swap Program

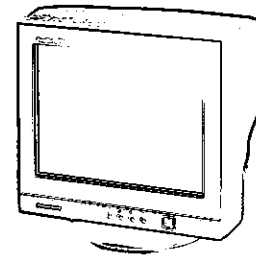
# PanaSync 17 Inch Displays



**PanaMedia™ PM17**



**PanaSync/Pro™ P17**



**PanaFlat™ PF70**

CRT	Screen Size	17" CRT (16.0"/40.6 cm Viewable Image Size) Flat-Square	17" CRT (16.0"/40.6 cm Viewable Image Size) Flat-Square	17" CRT (15.9"/40.4 cm Viewable Image Size) PureFlat		
	Dot Pitch	0.27mm	0.25mm	0.24mm (Stripe Pitch)		
	Surface	NEW AGRAS™ COAT	NEW AGRAS™ COAT	AR PANEL		
Viewable Display Area (HxV)	Factory Preset	11.81" x 8.86", 14.8" diagonal	11.81" x 8.86", 14.8" diagonal	11.81" x 8.86", 14.8" diagonal		
	Full Scan	12.80" x 9.61", 16.0" diagonal (typical)	12.80" x 9.61", 16.0" diagonal (typical)	12.80" x 9.53", 15.9" diagonal (typical)		
Input	Video Signal	RGB analog (0.7 Vp-p, 1.0 Vp-p with sync on green, 75 ohms)	RGB analog (0.7 Vp-p, 1.0 Vp-p with sync on green, 75 ohms)	RGB analog (0.7 Vp-p, 1.0 Vp-p with sync on green, 75 ohms)		
	Sync Signal	H/V separate (TTL), H/V Combined, or Sync on Green	H/V separate (TTL), H/V Combined, or Sync on Green	H/V separate (TTL), H/V Combined, or Sync on Green		
	H-Sync	30-69kHz	30-86kHz	30-86kHz		
	V-Sync	50-160Hz	50-160Hz	50-160Hz		
	Modes	1 Factory Presets, 7 Reservations	1 Factory Presets, 7 Reservations	1 Factory Presets, 7 Reservations		
Connector & Cables	Video Input	One 15-pin Male Mini D-Sub on attached cable (4.92'/1.5 meters)	One 15-pin Male Mini D-Sub to 15-pin Male Mini D-Sub (4.92'/1.5 meters), 5 Female BNC Connectors	One 15-pin Male Mini D-Sub to 15-pin Male Mini D-Sub (4.92'/1.5 meters), 5 Female BNC Connectors		
	Audio Input	Pin Plug (RCA x 2, R & L) to 3.5 mm Mini plug (Stereo) (4.92'/1.5 meters)	—	—		
	Microphone Output	3.5 mm Mini plug (Stereo) to 3.5 mm Mini plug (Stereo) (4.92'/1.5 meters)	—	—		
	Mac Adapter	Available On Request, Free of Charge	Available On Request, Free of Charge	UNIMAC-82D (included)		
	Power	One UL 3-pole (CEE 22 type) (5.91'/1.8 meters)	One UL 3-pole (CEE 22 type) (5.91'/1.8 meters)	One UL 3-pole (CEE 22 type) (5.91'/1.8 meters)		
Controls	Front Panel	1 (menu) key, Left key, Right key 2 (select) key, Power Switch (On/Off)	1 (menu) key, Left key, Right key 2 key, Power Switch (On/Off)	1 (menu) key, Left key, Right key 2 (select) key, Power Switch (On/Off)		
	Indicators	LED power indicator Green=On, Yellow=Power-saving mode	LED power indicator Green=On, Yellow=Power-saving mode	LED power indicator Green=On, Yellow=Power-saving mode		
On-Screen Menu	<ul style="list-style-type: none"> <li>• Contrast • Brightness • Recall (Factory Setting)</li> <li>• H Position • H Size • V Position • V Size</li> <li>• V Pincushion • Trapezoid • Parallelogram</li> <li>• Color Temperature (9,300K/6,550K/User Color)</li> <li>• Display Frequency • Video Level (0.7/1.0 Vp-p)</li> <li>• Audio Volume • Language (German, French, English, Italian &amp; Spanish) • Monitor Self-Test (w/no Signal Input)</li> </ul>		<ul style="list-style-type: none"> <li>• Contrast • Brightness • Recall (Factory Setting)</li> <li>• H. Position • H. Size • V. Position • V. Size</li> <li>• V. Pincushion • Trapezoid • Parallelogram • Rotation</li> <li>• Color Temperature (9,300/6500K/User Color)</li> <li>• Display Frequency • Video Level (0.7/1.0 Vp-p)</li> <li>• Input Select • H Moire • V Moire • Language (English, French, German, Spanish &amp; Italian)</li> <li>• Monitor Self-Test (w/ No-Signal Input)</li> </ul>		<ul style="list-style-type: none"> <li>• Contrast • Brightness • Degauss • Recall (Factory Setting)</li> <li>• H Position • H Size • V Position • V Size</li> <li>• V Pincushion • Trapezoid • Parallelogram • Rotation</li> <li>• Color Temperature (9,300K/6,550K/User Color)</li> <li>• Display Frequency • Video Level (0.7/1.0 Vp-p)</li> <li>• Input Select • H. Moire • V. Moire</li> <li>• Language (German, French, English, Italian &amp; Spanish)</li> <li>• Monitor Self-Test (w/no Signal Input)</li> </ul>	
Video	Bandwidth	86MHz (typical)	135MHz (typical)	135MHz (typical)		
	Resolution (HxV)	1,280 dots x 1,024 lines 60Hz NI FCC Class B, Max. 1,280 dots x 1,024 lines 65Hz NI FCC Class A, Max. *	1,600 dots x 1,200 lines 69Hz NI FCC Class B, Max. 1,600 dots x 1,280 lines 65Hz NI FCC Class A, Max. *	1,600 dots x 1,200 lines 69Hz NI FCC Class B, Max. 1,600 dots x 1,280 lines 65Hz NI FCC Class A, Max. *		
Operating Conditions	Temperature	32-104 degrees F	32-104 degrees F	32-104 degrees F		
	Humidity	5%-90% Non-condensing	5%-90% Non-condensing	5%-90% Non-condensing		
Dimensions		17.2" (W) x 16.5" (H) x 17.2" (D)	16.1" (W) x 16.4" (H) x 17.5" (D)	16.14" (W) x 16.38" (H) x 17.09" (D)		
Weight		42.4 lbs	38.5 lbs	41.7 lbs		
Approvals		UL, CSA, DHHS, HWC, MPR II, FCC Class B, Energy Star/VESA DPMS	UL, CSA, TUV/GS, TUV/ISO9241-3, NORDIC, VCCI 2, DHHS, HWC, PTB, MPR II, FCC Class B, DOC-B, TCO '92, CE, EN-60552, Energy Star/VESA DPMS	UL, CSA, TUV/GS, TUV/ISO9241-3, NORDIC, VCCI 2, DHHS, HWC, PTB, MPR II, FCC Class B, DOC-B, TCO '92, CE, EN-60552, Energy Star/VESA DPMS		
Power Consumption	Supply	90 to 132, 198 to 269V AC (50 or 60Hz), Auto Switch	90 to 132, 198 to 269V AC (50 or 60Hz), Auto Switch	90 to 132, 198 to 269V AC (50 or 60Hz), Auto Switch		
	On	130 Watts (Typical)	120 Watts (Typical)	140 Watts (Typical)		
	Standby	<20 Watts	<15 Watts	<15 Watts		
	Suspend	<20 Watts	<15 Watts	<15 Watts		
Off	<8 Watts	<8 Watts	<8 Watts			
Warranty		3 Years Limited Parts & Labor, 1 Year On-Site Replacement (see your dealer for details)	3 Years Limited Parts & Labor, 1 Year On-Site Replacement (see your dealer for details)	3 Years Limited Parts & Labor, 1 Year On-Site Replacement (see your dealer for details)		
Other		Headphone jack, Microphone input & output Audio input w/connector, Windows '95 Plug & Play 24-hour/7-day customer service 48-hour Swap Program	Windows '95 Plug & Play 24-hour/7-day customer service 48-hour Swap Program	Windows '95 Plug & Play 24-hour/7-day customer service 48-hour Swap Program		

# O v e r v i e w

To serve worldwide growth in Computer Peripheral Products... this is Matsushita's primary goal in the formation of Panasonic Computer Peripheral Company. And this same goal carries through for Panasonic Display Monitors.

Panasonic offers a complete line of display monitors, each designed with the philosophy that users deserve more than state-of-the-art technology at a fair price. Each Panasonic Monitor features precision made tubes manufactured in our own Matsushita factories— a leading manufacturer and worldwide supplier of display tubes. And, every Panasonic monitor comes standard with our solid commitment to the products we sell. This commitment is evident in our industry leading warranty. We've created the most



extensive monitor warranty and customer support program available— a 3-Year Limited Warranty on Parts, Labor and the CRT, 48-Hour On-Site Exchange Program, and 24 Hour, 7-Day Customer Support Hotline.

## Innovative Features

The key to the growth and success of our display monitors is our commitment to research and development and our dedication to technological advancement. These advancements have led us to offer products featuring state-of-the-art technology, assuring outstanding price performance through proven quality and reliability.

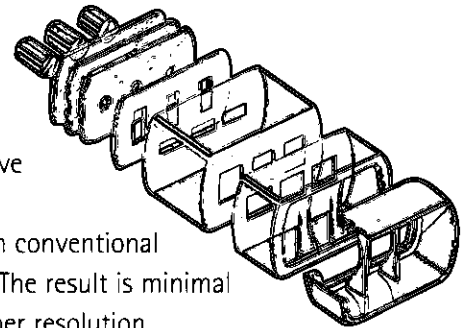
## PanaPerfect™ Controls

Customization of monitor settings can easily be made through on-screen adjustment menus. Parameter values are conveniently displayed using icons, bar graphs, and numbers, enabling precise and accurate adjustments.



## DQ-DAF™ Gun

Our own DQ-DAF (Double-Quadrupole Dynamic Astigmatism and Focus) electron gun employs two sets of dynamic quadrupole lenses to achieve 20% less spot aberration than conventional electron guns. The result is minimal moire and higher resolution.



## Power Saving Function

Panasonic Monitors are equipped with the power management circuitry conforming to the VESA DPMS standard.

When used in combination with computer/video graphic boards and screen



blanking software or operating systems that meet the DPMS standard the monitor will switch between four modes, minimizing nonessential energy consumption.

# Awards and Recognition



**P17**  
December '96



**P17**  
May '97



**S17**  
March '97



**S17**  
August '96



**FINALIST**  
**PF70**  
March '97



**PM15 & P15**  
June '97



**P21**  
April '97



**S21**  
May '97



**FINALIST**  
**LC40**  
March '97



**E21**  
January '97



**S17**  
December '96



**S17**  
October 8, '96



**P21**  
May '97



**E21**  
June '97

"If you really want a lot of control options, the PanaSync/Pro P21 color monitor offers them. The on-screen display includes 19 control functions. They help you achieve optimal picture quality quickly and easily."

**-Imaging Magazine, Joni Blecher, March 1997**

"Overall the S17 is a great monitor for the home office, games and homework. The size allows users to view more than one on-screen application at the same time, and the relatively low price makes this a great addition to any Christmas list."

**-California Computer News, December 1996**

"The P17 is a lot of monitor for the price especially considering the professional features and outstanding on-site replacement programs. It's an easy monitor to buy, configure, and control. The PanaSync/Pro has quality, value, and innovation. Three out of three isn't bad."

**-CADALYST, J.V. Bolkan, January 1997**

"With a very low price, arguably the best overall mix of objective scores and subjective quality, and round-the-clock, toll-free tech support, the PanaSync E21 is an excellent choice."<sup>1</sup>

**-Computer Shopper, February 1997**

"The Panasonic PanaSync S21 won honors for ease of use, due to straightforward controls and clearly labeled menus."

**-Macworld, January 1997**

"The PanaSync/Pro P21 is one of the easiest to control, with a smooth and intuitive on-screen menu and responsive buttons ...the monitor is backed by the best warranty in the group—three years on parts and labor, and one year on-site replacement within 24 hours. The PanaSync/Pro's performance is very solid."

**-CADALYST, J.V. Bolkan, March, 1997**

"The PanaMedia PM17 offers a good mix of video and audio ...the control panel and menus are superbly designed ...It offers what is probably the most bang for the buck."<sup>2</sup>

**-Computer Shopper, November 1996**

"The bandwidth, extreme resolution capabilities, competitive pricing, and best warranty in the group combine to make the PanaSync/Pro a strong candidate for your short list."

**-PC Graphics & Video, March 1997**

"The PanaSync/Pro P17 shines ...everything is beautifully sharp, the colors are bright, and the picture is excellent. The flat/square screen seems immune to glare and reflections, and no distortion or color inconsistency could be found in the corners."

**-Boot, November 1996**

"Panasonic's PanaSync P21 is a beautiful product ...Every control you could reasonably want, along with a good warranty and support system."

**-Fortune, Winter 1997**

"The PanaSync S17... it's a beauty."

**-Jack Warner, Syndicated Columnist, December 1996**

"With its crisp image quality, Panasonic's PanaSync/Pro P21 is the choice for everyday business applications."<sup>3</sup>

**-PC Magazine, December 17, 1996**

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