

# RCA

PR42300

digital | **PLASMA**



## 42" <sup>diagonal</sup> Digital Plasma Monitor Receiver

- Digital Video Resolution (853H x 480V)
- 500:1 Typical Panel Contrast Ratio
- Plasma Screen CCF Technology (Capsulated Color Filter)
- 160-Degree Viewing Angle
- 3D-Y/C Digital Comb Filter
- Digital TV Mode 720p/1080i
- Built-In Stereo Amp (2x7 Watts Per Channel)
- External Speaker Terminals
- Universal Remote Control
- On-Screen Menu System (English, Spanish, French)
- Picture Controls
- Sound Controls
- Four Picture Modes
- Gold-Plated Jacks
- Anti-Glare Screen

# RCA

Changing Entertainment. Again.

[www.rca.com](http://www.rca.com)



TELEVISION

# PR42300

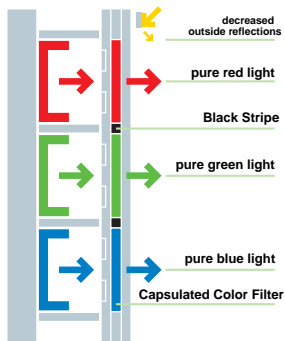
## Picture

### • Understanding Plasma

RCA Plasma is equipped with the ultimate in technology. The use of plasma, a mixture of rare gases that emulate the energy of the sun, makes it possible to achieve an image that is infinite in surface and quality.

Trapped between two glass plates and electronically activated, the plasma produces a controlled energy that is instantaneously transformed into color images by red, green and blue phosphors. The technique is all the more astonishing when you consider that the layer of gas is only 100 microns thick—one-tenth of a millimeter!

RCA combines this technology with the unique Capsulated Color Filter<sup>1</sup> process: a grid of colored micro-filters positioned on the screen. The fidelity of the colors is so high, they are virtually identical to the colors in nature. In fact, they are indistinguishable.



Capsulated Color Filter CCF Technology<sup>1</sup>

### • 3D Y/C Digital Frame Comb Filter

The ultimate in color separation—this three-dimensional filter evaluates both current and future video information, eliminating dot and edge crawl while providing for better transitions between scene changes—resulting in a dramatically enhanced picture.

### • CinemaScreen™ PR42300

The monitor is a high-performance XGA-compatible 42" plasma monitor designed for corporate applications including conference room meeting support, boardroom presentations, video conferencing and dynamic signage in building lobbies and shared areas. The CinemaScreen™ monitor includes SYNCROSCAN™ conversion technology for sharp, stable images up to XGA resolution and realistic color reproduction.

### • Capsulated Color Filter<sup>1</sup> Technology Provides Realistic Color

Capsulated Color Filter<sup>1</sup> (CCF) technology improves color response to provide the most realistic color rendering available in plasma monitors. CCF technology is a series of red, green and blue filters bonded within the panel's front glass substrate. CCF optimizes the color spectrum of visible light emitted from the panel by attenuating unwanted spectral emissions associated with the ionization of gas within the individual pixels. CCF also incorporates a black matrix that helps the panel absorb external light, cuts down on reflections and improves the reproduction of black. The result is color that is more true to life, enhanced contrast and a screen image that is perceptibly superior to other plasma monitors.

### • Professional Color Management Control

The CinemaScreen™ monitor's control system complements Capsulated Color Filter<sup>1</sup> technology by allowing simple and accurate adjustment of on-screen color temperature settings through the monitor's on-screen user menus. Select one of three preset color temperatures or "Pro Mode." Select PM to set a customized color temperature to suit your specific application requirements or personal preferences.

### • SYNCROSCAN™ Conversion Technology Delivers High-Resolution Image Quality

The SYNCROSCAN™ system of the CinemaScreen™ monitor automatically delivers high-resolution pixel mapping from sources up to XGA resolution. This high-performance system displays computer graphics with superior accuracy and stability. This results in a screen image with excellent clarity from the highest resolution sources.

## Sound

### • Stereo Amplifier

Built-in amplifier enhances stereo performance and can power optional left/right or surround speakers.

## Convenience

### • Advanced On-Screen Menu System

On-screen displays make it easy to adjust most picture, sound, and convenience features from either the remote control or the TV front-panel buttons.

## Remote

### • Universal Remote Control CRK76TUL1/CRK76TQL1

New ergonomic design and color-coded buttons provide complete TV operation plus control of the primary functions of virtually every brand of remote-controllable VCR, satellite system, and cable box. Also controls most functions of RCA DVD players. Frequently-used buttons illuminate for easier nighttime use.



## The RCA HD/Digital Receiver adds to the superior picture quality of plasma.

The RCA HD/Digital Receiver has a built-in DIRECTV receiver and is an essential part of the plasma equation, providing a wide variety of digital programming options. Specifically, the DTC100 accepts all local digital programming, as well as local analog broadcasts and analog cable. When combined with a DSA8900E dish (sold separately), you have access to over 225 channels of digital-quality entertainment from DIRECTV (programming sold separately). The DTC100 and DSA8900E will also provide access to DIRECTV® high-definition programming. The DTC100 digital receiver not only puts digital entertainment possibilities into the plasma picture—it also makes an impact with digital-quality sound. The receiver offers 5.1-channel Dolby Digital<sup>2</sup> Surround Sound capability with up to five full channels and a sixth low-frequency-effects (subwoofer) channel.

RCA Model DTC100 (sold separately)

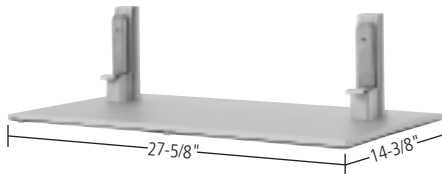


DSA8900E (sold separately)

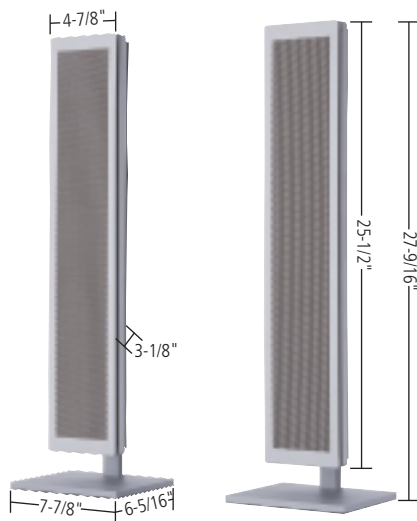
## Optional Attachments



Shown with optional stand and speakers.



Optional Television Stand Model PLB1



Optional Speakers including matching stands (Model SPK42)

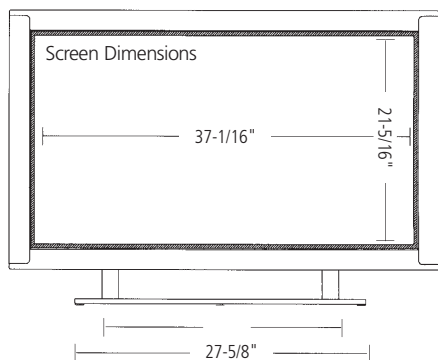
• **Speaker Specifications:**

- Passive radiator design
- 2 - 92 mm diameter
- Impedance 6 ohms
- Maximum input rating 10 watts

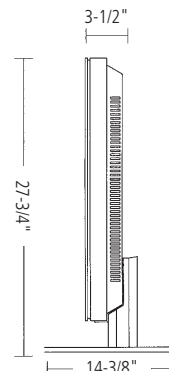
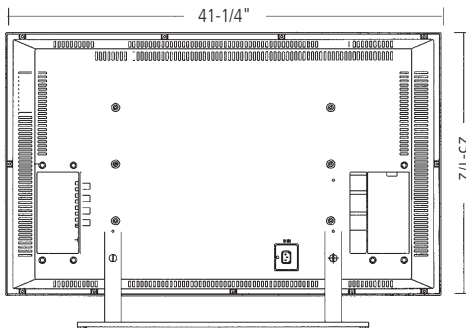
## Specifications

Model	PR42300
<b>General</b>	
Panel Resolution (Pixels)	853 x 480
Screen Aspect Ratio	16:9
Color Palette	16.7 Million
Capsulated Color Filter <sup>1</sup>	Yes
Contrast Ratio	500 to 1
<b>Frequency</b>	
H-sync (kHz)	15.5 - 64 Auto, Step Scan
V-sync (Hz)	50 - 85 Auto, Step Scan
<b>Computer Signal Capability</b>	
VGA 640 x 480	60, 72, 75 85Hz
SVGA 800 x 600	56, 60, 72, 75 85Hz
Wide VGA 848 x 480	60Hz
XGA 1024 x 768	60, 70, 75Hz
SXGA 1280 x 1024	60Hz
Mac 640 x 480	67Hz
832 x 624	75Hz
1024 x 768	75Hz
1152 x 870	75Hz
Wide VGA 848 x 480	75Hz
Wide SVGA 1024 x 600	60Hz
Wide XGA 1360 x 765	60Hz
<b>Video Signal Compatibility</b>	
Video	NTSC Composite/S-Video
Digital TV	480i - 480p - 720p - 1080i
<b>On-Screen Display</b>	
	English/Spanish/French
<b>Scaling</b>	
Scan Conversion	SYNCHROSCAN™
<b>Inputs</b>	
RGB	
Video 1 (Analog)	Mini D-SUB 15-Pin
Video 2 (Analog)	BNC (R, G, B, H/V sync)
Video 3 (Digital)	DVI - I 29-Pin
Component Video	1 Set RCA Y/Pb/Pr/Y/Cr/Cb
S-Video	DIN 4-Pin
Composite Video	1 - RCA
Audio	RCA (L,R)
Audio Power	7W + 7W at 6 ohm
Communication	RS232
<b>Power</b>	
	120V AC 50/60 Hz
<b>Power Consumption</b>	
	395 Watt Typical
<b>Weight</b>	
	70.6 lbs/32 kg
<b>Regulatory Compliance</b>	
	FCC Class B <sup>3</sup>
<b>Warranty</b>	
	1 Year Limited <sup>4</sup>
<b>Environmental Considerations</b>	
Operating Temperature	0°C to 40°C
Humidity	20 to 80%
Storage Temperature	-10°C to 50°C
Humidity	10 to 90%
<b>Accessories</b>	
Tabletop Stand	Optional (PLB1)
Fixed Wall Mount	Included Separate (PWM42)
Speakers	Optional (SPK42)
Universal Remote	CRK76TUL1/CRK76TQL1

## Dimensional Drawings



Shown with optional stand.

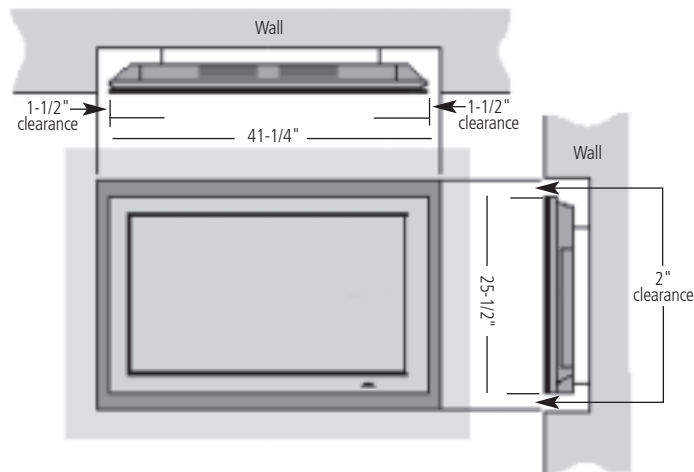


### Ventilation Requirements

The TV can be easily hung on a wall with the included mounting bracket. \* The ultra-thin design allows big-screen entertainment in almost any room. The bracket is designed to allow necessary ventilation behind the TV.

If an enclosed mounting is desired (recessed into the wall), please allow 1.5" clearance on each side and 2" clearance on the top and bottom for proper ventilation.

\*Bracket must be securely mounted to wall studs.



### Connections

- **A/V Inputs Composite/S-Video**
- **Component Video Input—Y, Pb, Pr**
- **HD/PC/RGB Input: Mini D-SUB 15 PIN/BNC**
- **PC Compatibility: VGA, SVGA, XGA, SXGA**

### Plus

- **Limited Warranty**
  - One year for labor charges.
  - One year for parts.
  - See RCA dealer or visit [www.rca.com](http://www.rca.com) for complete details.

**SPK42**



**PLB1**



**PR42300**



- 1 Capsulated Color Filter technology is a development of the NEC Corporation.
  - 2 Dolby Digital is a registered trademark of Dolby Laboratories Licensing Corporation.
  - 3 This model is rated as Class B — it has low EMI radiation and is suitable for either industrial or consumer use. Class A models cannot be used for consumer use.
  - 4 See dealer for details.
- DIRECTV and the Cyclone Design logo are trademarks of DIRECTV, Inc., a unit of Hughes Electronic Corp., and are used with permission.

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