

**PROTON®**

2007 LCD SERIES



V.070605

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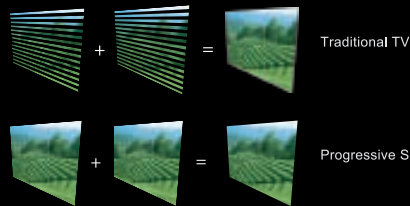


# Video Enhancement Technology

Puriti Video Enhancement Technology is PROTON's exclusive technology developed by the company's award winning engineers, accumulated after decades of success. The Puriti Video Enhancement Technology is built into every superbly made PROTON LCD TV.

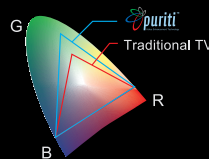
## Progressive Scan

The Puriti processing system buffers and interpolates the odd and even numbered scan lines, resulting in a better quality picture and virtually eliminates flickering.



## Wider Color Range

The Puriti video enhancement technology also displays more color than conventional LCD or CRT products.



## Skin Tone Compensation

Puriti analyzes color frequencies and adjusts the intensity of colors to represent the most natural skin tone.



## 3D De-interlacing and Edge Enhancement

Eliminates jagged edges from the conventional interlaced video format thereby providing smooth edges on moving objects.



## ABLE (Automatic Black Level Expansion)

Automatic Black Level Expansion in the Puriti technology detects detail lost due to lack of contrast and automatically corrects it for the best contrast. Other LCD sets cannot do this, so the picture will look washed out.



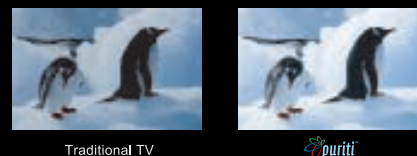
## 3:2 Pull Down Film Mode De-interlace

The film mode allows only 25 frames per second. This mode is automatically detected initiating 3:2 pull down algorithm to convert the source to 60 frames per second which is the proper video format. There is no loss of quality in this conversion.



## LCD Brightness

Puriti LCD provides brighter output. The brightness allows a wider range of color variation and assures the vividness of color even in a brightly lit room.



## Energy Saving

Puriti LCD utilizes the latest lamp technology which reduces energy consumption by 25%.

## High Contrast Ratio

The contrast ratio is the measurement of the difference in light intensity between the brightest white and the darkest black. The higher the ratio is, richer the color representation. At 800:1, Proton LCD is sitting at the top rank.



## Super Fast Response Time

Puriti uses LCD panels with the fastest response time. Delaying or ghosting of the picture is virtually eliminated.



## Wide Viewable Angles

Puriti LCD has the widest viewable angle. The angle approaches 178 degrees, which allows viewing from virtually any angle.



## Zero Radiation

Unlike Plasma and CRT televisions, LCD panels emit no radiation. This is obviously better for the viewers eyes and overall health. It's especially important if children will be viewers.

# CS Series

High-Definition LCD Televisions

## State of the Art Industrial Design

Proton brings together extraordinary design to compliment the leading edge technology, the Puriti™ experience. Puriti™ is Proton's exclusive technology developed by our award winning engineering team.

## Video Enhancement Technology

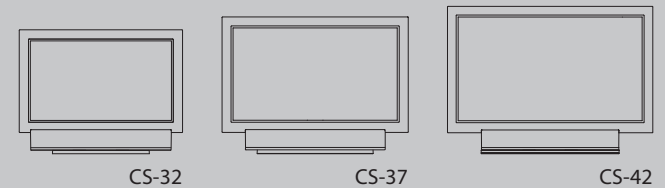
Puriti Video Enhancement Technology is an exclusive technology developed by Proton's award winning engineering team. The awards for engineering accomplishment have been accumulated for years of outstanding technology development over a thirty year span. The Puriti development may well be their best effort to date.

## IPS (In-Plane-Switching) Panel

Successfully reduces distortion in fast-moving images and also improves aperture ratio, higher brightness and color reproduction.

## Full HD (High-Definition) TV

Supports all video formats from SD (Standard Definition) 480i and 480p, to HD 720p, 1080i, and Full HD 1080p. ( Full HD 1080p CS-42, CS-47 )



FULL HD 1080P

HDMI  
HIGH DEFINITION MULTIMEDIA INTERFACE



DIGITAL TUNER



PC INPUT



SPDIF



P-SCAN



PULL DOWN



3D DE-INTERLACE



HIGH CONTRAST



HIGH BRIGHTNESS



BLACK LEVEL EXPANSION



PIP / PAP



V-CHIP

# TA Series

High-Definition LCD Televisions

## True Acoustic Enhanced Audio

The superior Puriti™ visual experience finally meets real sound. Proton engineers not only strive for the best picture performance, but challenge the realm of audio which is often time neglected; the result, TA™, True Acoustic Enhanced Audio Technology.

## Video Enhancement Technology

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## True Acoustic Enhanced Audio

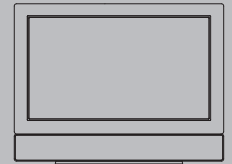
The TA™, Real Acoustic Enhanced Audio is Proton's latest audio technology. Through Proton's exclusive engineering in Hi-Fi integration, Proton has fulfilled the ever demanding needs of today's audiophiles.

## Full HD (High-Definition) TV

Supports all video formats from SD (Standard Definition) 480i and 480p, to HD 720p, 1080i, and Full HD 1080p.



RA-37



RA-42



# PS Series

High-Definition LCD Televisions

## Proton's Very Best Statement

Offering the most advanced circuitry available to the truly discriminating consumers. The result is stunning picture quality that exceeds the performance of any other television product available today.

## Video Enhancement Technology

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## Super High Contrast Ratio

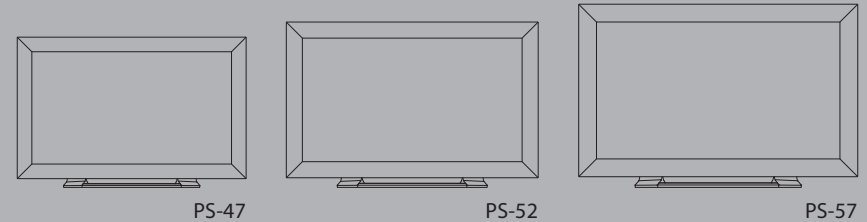
Superior and true 1,500:1 high contrast ratio for real color and image reproducibility.

## Full HD (High-Definition) TV

Supports all video formats from SD (Standard Definition) 480i and 480p, to HD 720p, 1080i, and Full HD 1080p.

## 10-Bit Video Processing

Industry leading 10-bit video processing to output 1 billion color, presenting astonishing picture performances.



	Model	CS-32	CS-37	CS-42	RA-37	RA-42	PS-47	PS-52	PS-57	
Panel	Screen Size	32" 16 x 9	37" 16 x 9	42" 16 x 9	37" 16 x 9	42" 16 x 9	47" 16 x 9	52" 16 x 9	57" 16 x 9	
	Resolution	HD (1366 x 768)	HD (1366 x 768)	Full HD 8bit (1920 x 1080)	Full HD 8bit (1920 x 1080)	Full HD 8bit (1920 x 1080)	Full HD 10bit (1920 x 1080)	Full HD 10bit (1920 x 1080)	Full HD 10bit (1920 x 1080)	
	Viewing Angle	Horizontal & Vertical 178 degree			Horizontal & Vertical 178 degree			Horizontal & Vertical 178 degree		
	Display Colors	16.7M colors			16.7M colors			1.007B colors@ 10 bit		
	Contrast Ratio(typical)	850:1	750:1	900:1	900:1			1500:1		
	Brightness(typical)	450 nits			500 nits			500 nits		
	Surface Treatment	Anti-glare			Anti-glare			Anti-glare		
	Lamp Life Time	50,000hrs			50,000hrs			50,000hrs		
Video Inputs	Analog Tuner	NTSC			NTSC			NTSC		
	Digital Tuner	ATSC			ATSC			ATSC		
	HDMI Input	3			3			4		
	Component Video Input	2			2			2		
	S-Video Input	1			1			1		
	Composite Video Input	1			1			1		
	Composite Video output	1			1			1		
D-sub Input	1			1			1			
Audio Features	Tone Control	TREBLE / MIDDLE / BASS ±12dB			<b>Preamplifier</b> Bass, Mid, Treble, control ± 12dB Total harmonic and inter-modulation distortion < 0.01% Frequency response : 20-20KHz ± 0.1dB signal to noise rate > 110dB <b>Power Amplifier</b> Power output : 60Watts/ch @4ohms Total Harmonic and Inter-modulation Distortion < 0.01% signal to noise rate > 100dB Residual Noise < 0.1mv Frequency response : 20-20KHz ±0.01dB Built-in Bass Equalization and Subsonic filter circuits <b>Loudspeaker System</b> 2-way acoustic suspension loudspeaker system : 5.25" woofer and 2" tweeter Crossover frequency : 1000Hz Power handling: 60 watts			TREBLE / MIDDLE / BASS ±12dB		
	MTS	YES						YES		
	Speaker Power	20W ( 10W x 2 )						13W ( 6.5W x 2 )		
	RCA Audio Output Jacks	L / R & Sub-woofer						L / R & Sub-woofer		
	Digital Out Coaxial (SPDIF)	1						1		
Video Enhanced Features	Progressive Scan	YES			YES			YES		
	3-2 pull down	YES			YES			YES		
	Digital 3D Comb Filter	YES			YES			YES		
	Sleep Function	YES			YES			YES		
	Multi Picture	PIP / PAP / POP			PIP / PAP / POP			PIP / PAP / POP		
	Resolution	720p / 1080i / 480p / 480i		1080p / 720p / 1080i / 480p / 480i	1080p / 720p / 1080i / 480p / 480i			1080p / 720p / 1080i / 480p / 480i		
	Display Mode	16:9 ZOOM / 4:3 VIDEO / WIDE SCREEN / PANORAMIC			16:9 ZOOM / 4:3 VIDEO / WIDE SCREEN / PANORAMIC			16:9 ZOOM / 4:3 VIDEO / WIDE SCREEN / PANORAMIC		
	Color Temperature Adjust.	Nature / Warm / Cool			Nature / Warm / Cool			Nature / Warm / Cool / User		
	Video Setting	Bright / Normal(Dimmer) / Game / User			Bright / Normal(Dimmer) / Game / User			Bright / Normal(Dimmer) / Game / User		
Others	Unit Dimension ( W x H x D )	32 x 24 x 8.3 inch	36 x 27 x 9 inch	41 x 30 x 9.7 inch	38 x 31 x 11 inch	43 x 33 x 13 inch	47 x 31 x 13 inch	54 x 33 x 13 inch	72 x 36 x 13 inch	
	Packaging Dimension	35 x 31 x 14 inch	42 x 35 x 14 inch	49 x 38 x 17 inch	42 x 35 x 14 inch	49 x 38 x 17 inch	55 x 37 x 16 inch	59 x 40 x 16 inch	79 x 42 x 16 inch	
	Unit / Gross Weight	53 / 62 lbs	62 / 73 lbs	84 / 99 lbs	65 / 75 lbs	87 / 102 lbs	115 / 121 lbs	123 / 130 lbs	132 / 139 lbs	
	Power Consumption	AC100-240V, 50 / 60Hz	AC100-240V, 50 / 60Hz	AC100-240V, 50 / 60Hz	AC100-240V, 50 / 60Hz	AC100-240V, 50 / 60Hz	AC100-240V, 50 / 60Hz	AC100-240V, 50 / 60Hz	AC100-240V, 50 / 60Hz	AC100-240V, 50 / 60Hz