

marantz®

LCD TV
LC1700



LC1700 LCD Television

Based on the innovations for the future, the LC1700 widescreen LCD television delivers breathtaking accurate, dynamic visual quality for every high performance home entertainment system. Whether mounted on a wall or positioned on the unobtrusive table stand, this 17" (43cm) diagonal, less than 7cm deep high resolution multi media TV, opens up a whole new world of viewing possibilities. Don't waste valuable space with a bulky CRT based TV in your kitchen or bathroom, in the gallery of your boat or the bedroom of your motor home. Slim down with the new LC1700 flat panel LCD TV from Marantz.

because music matters

R A N G E S E R I E S

Features:

- High resolution Liquid Crystal Display
- Wide viewing angle
- High quality de-interlacing
- Digital Luminance Transient Improvement
- Digital Color Transient Improvement
- Black Level Expansion
- Wide range of inputs like Scart, VGA and S-Video
- Intuitive on-screen menu
- High quality full range speaker system

Benefits:

- High quality picture performance with natural colors and a very long lifetime
- Preserved picture quality under virtually any viewing angle
- Provides the most accurate reconstruction of the original film content without motion artifacts
- Ensures a sharp and accurate image
- Assure clear, distinct colors without smearing effect
- Outputs richer and deeper black tones
- Ultimate connection versatility; regardless which source you want to connect this dream machine is ready for it
- Easy to set up and operate with direct on-screen feedback
- Faithfull and accurate sound reproduction for maximum enjoyment

Technological glossary:

A visionary experience

Designed with a built-in tuner and full range stereo speakers, the Marantz LC1700, can be used as a complete standalone television or as a compact, bright computer monitor supporting resolution upto SXGA (60Hz). By incorporating the latest advanced video processing, the LC1700 achieves a picture quality hardly seen in the home entertainment arena. The future proof TV video enhancement technologies have been used to set the reference in the market. Unlike many others, the LC1700 is not just a PC monitor with built in TV tuner, but a trend setting multifunctional display device with the renown Marantz quality.

LCD technology

Liquid Crystal (Display) Television works by trapping a liquid crystal solution between two sheets of polarized glass. When an electric current is passed through the liquid crystals, they align so light cannot pass through. Each crystal then either blocks or allows light to pass through, based on the broadcast information. For a clear crisp color that rivals traditional CRT displays, a thin film transistor, known as a TFT, is employed. LCD allows screens to be thinner and televisions lighter and more energy efficient than ever before with a longer lifetime. Its higher white luminance output and contrast makes it more suitable for brighter environments. The LC1700 opens up a whole new world of viewing possibilities, efficiently hanging on the wall or placed anywhere in your living environment.

High grade de-interlacing

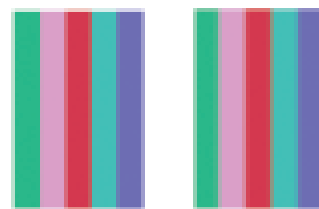
When using movies created for computers or film, it is easy to understand that the video consists of a number of individual frames that are played in sequence to give the impression of movement. When dealing with video for television, things are not quite as simple - television uses interlacing. If you intend to display interlaced video on a non-interlaced display (eg. flat panel displays like LCDs) artifacts can be seen. A non-interlaced display will show both fields simultaneously, rather than sequentially. When an object moves



a long way between fields, it can be seen to "tear". This tearing is due to both fields showing the moving object at slightly different times. The de-interlacer, of the Marantz LC1700, detects film-originated content (like on most DVD's) by analyzing consecutive images and detecting a 3:2 or 2:2 pull-down pattern. Film-originated content is de-interlaced by merging the two fields from the original frame. This results in the exact reconstruction of the original film content without motion artifacts.

Digital Luminance and Color Transient Improvement

Digital Luminance Transient Improvement (DLTI) is a fully digital detail enhancement algorithm producing a sharp and accurate image. The non-linear sharpness improvement



processor increases the slope of large luminance transients of vertical objects and enhances transients of details in natural scenes by contour to achieve best sharpness impression.

Digital Color Transient improvement (DCTI)

improves the color transients of vertical objects and minimizes color smear

Black level enhancement

The Black Level Expansion enables the Marantz LC1700 to output richer and deeper black tones in every image. Dark areas are stretched to black, while bright areas remain unchanged. Advantageously, this black level processing is performed



dynamically and only if it will be most noticeable to the viewer. It enhances the contrast and prevents the black signal from becoming gray if the brightness is increased. It allows for a darker picture without it going completely black.

Which thereby allows richer picture tones.

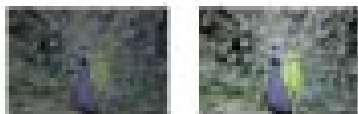
10-Bit digital gamma processing

The LC1700 uses a high-performance, 10-bit digital gamma processing circuit to optimize the non-linear imaging characteristics of LCD panels. It is far superior to conventional analogue and lesser bit-rate gamma processing. This circuitry delivers natural colors and smooth image graduation.



2D Comb filter

Reduces discoloration in fine detailed area in a picture and provides good overall color purity for TV and CVBS video sources. Unlike the lower quality comb filters, the Comb Filter in Marantz LCD TV's separates signals for brightness and color with an advanced technology. As a result, eliminating edge crawls or rainbow effects, while resolution is extended, clearly separating color boundaries and making images softer and cleaner.



Digital Noise Reduction

DNR's algorithms are designed to compare frames in the same scene and pick out unwanted noise such as grain, dirt and scratches. Once picked out, the system selectively replaces the unwanted parts of the image with parts from the previous and subsequent frames. The result is the elimination of video noise (snow) for a clean crisp image.

Bypacked Accessories

- User manual
- Power adapter & power cable
- Remote control
- Batteries (2 x AA)
- Antenna cable
- Table stand (tilted version)

RC2000LC





LC1700

Preliminary Specifications

FEATURES

Colour Transmission Systems (off-air)	
PAL B/G/I/D/K, SECAM B/G/I/L/L'/D/K	
HD/DTV Compatibility	-
NTSC Video Playback	•
Channel Presets	100
Build-in Speakers System	1-way

PICTURE PROCESSING

Digital Colour Transient Improvement (DCTI)	•
Digital Luminance Transient Improvement (DLTI)	•
Per-pixel Motion Compensated Deinterlacing	•
Digital Luminance Peaking	•
Black Level Expansion	•
Control: Sharpness/Contrast/Digital Noise Reduction	•/•/•
Colour Settings	•
Ambient Light Sensor	-
Selectable Aspect Ratio Modes	•
Picture Modes	Movie, Normal, Emphasis

SOUND PROCESSING

Sound System:A2 + Nicam Stereo	•
Digital Signal Processing	•
Bass/Treble Control	•
Headphone Volume	-
Language I-II Selection	•
Automatic Volume Correction	•
Digital Bass Boost (DBB)	•
Virtual Surround	•
Sound Modes	Personal, Music, Theatre, Voice

OTHERS

Intuitive Initial Installation Menu	•
Multilanguage On Screen Display (OSD)	•
OSD Status Display (channels & functions)	•
Child Lock	•
Channel Surf Loop	•/•
Double Window, Two-Tuner PIP	-
Automatic Tuning System	•
Automatic Channel Labelling (via ATS)	•
Channel Banners	•
Manual Channel Sorting	•
Sleep Timer	90 min.
Teletext 2.5 (TOP FLOP)	•
TT Page Memory	10
Last Status Memory	•

INPUTS/OUTPUTS

Scart In (RGB)	1
Component In	-
S-video In	1
VGA In	1
Antenna In	1
Audio In	2
Audio Out (Constant level)	1

SPECIFICATIONS

Visible Screen Diagonal	17.1"
Aspect Ratio	16:9
Panel Type	Transmissive TFT
Resolution	W XGA
Contrast Ratio (Dark Room)	350:1
Brightness	400 Cd/m2
Anti-reflex Coated Panel (Polarizer)	•
Display Front Treatment: Hard Coating (3H)	•
Output Power (8 Ohm RMS)	3.5 Watts x 2
Power Consumption (typical)	55 Watts max.
Power Supply (DC input)	DC 15V - 4A

Design and specifications are subject to change by Marantz without notice

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