PIXEL MAGIC™

plasma Enhancer™ PRO

Video Processor/Scaler PE1000 Pro

DCDi™

SDI and HDMI

HDTV

Pixel Magic
System™

Plasma Enhancer® PE1000-Pro

Plasma Enhancer® is a video processor/scaler specially designed to enhance the video quality of Plasma TVs, LCD TVs, Projectors and RPTVs.

Plasma Enhancer® combines state-of-the-art digital video transmission, processing, scaling and format conversion technologies in a single box and delivers unprecedented high quality video in home theaters at an affordable price.

Technologies including Genesis Microchip's Emmy award winning DCDi™ and TrueLife® are employed to provide impressive de-interlaced processing and outstanding picture quality.

Plasma Enhancer® is equipped with the new Philips 5th generation high quality analog TV tuner MK5™. Boasting a best-in-class noise figure of less than 5dB throughout the frequency range, and with improved sensitivity, Plasma Enhancer® offers crystal clear analog TV reception quality.

SDI-input

SDI (Serial Digital Interface) is an established standard used by the professional broadcast industry. The SDI input of Plasma Enhancer® Pro allows zero picture quality loss as the video is transported from SDI equipped DVD player/set top-box to Plasma Enhancer®.

The HDMI™ output of Plasma Enhancer® plus the SDI input represents a full-digital signal path from the video source to the digital display devices without any signal degradation caused by unnecessary digital-to-analog or analog-to-digital conversion.

DCDi™

Video material is analyzed at single pixel granularity to detect the presence or absence of angled lines and edges, which are then processed to produce a smooth and natural looking image without visible artifacts or "jaggies".

DCDi™ eliminates jagged edges normally seen on angled lines in motion video, creating smooth and natural-looking images.

Philips MK5™ high quality analog tuner

Plasma Enhancer® is equipped with the latest Philips 5th generation high quality analog TV tuner MK5™. Boasting a best-in-class noise figure of less than 5dB throughout the frequency range, and with improved selectivity, Plasma Enhancer® offers crystal clear analog TV reception quality. NICAM audio decoding is included in the European version.

Off-Air-Noise-Terminator™

The motion adaptive noise reduction algorithm effectively reduces the video noise of off-air material. Broadcast TV programs now become much more enjoyable.

Spouse Friendly™ remote control

Each Plasma Enhancer® is shipped with two different remotes. One is a full feature remote for the owner; another one is a smaller, simpler and easier-to-use remote specially designed for your family members. Now they can operate a Plasma Enhancer® as easily as operating a TV.

TV Commander™

Plasma Enhancer® is the only video processor which can learn the common infrared remote control signals of your TV (power, volume up/down, switching AV inputs) and control your TV by transmitting the learnt signals through a wired infrared transmitter.
Now you can control both your video processor and your TV with one single remote control.

Pixel Magic System™

Pixel Magic System™ is a set of tools for users to configure the video output of Plasma Enhancer®, ensuring that it is mapped to digital displays in Pixel Perfect mode (1:1 pixel mapping). Without Pixel Magic System™, a video processor can not ensure it can map to digital displays pixel by pixel to produce crystal clear images even if it can output to the native resolution of the display. This is because pixel clock and phase are perfectly matching can not be perfectly verified.

TrueLife™

TrueLife™ enhancement uses non-linear algorithms to enhance the small details and colors in images, and improve depth perception by sharpening large edges without introducing visual artifacts or distortion.

The overall result is a richer, more pleasing, high definition-like picture.

Technical Specifications

Audio / Video Inputs
One antenna input for analog TV tuner; European (PAL & SECAM) or NTSC versions are available.
Serial Digital Interface (SDI) input x1 (Standard)
HDTV analog input for passthrough x1
HDMI (HDCP, video only) inputs x 2 for 480p/576p processing and HDTV passthrough
AV1: S-Video x1, Composite x1, Component (480i/p and 576i/p) x1, with stereo audio x1
AV2: SCART input x1 (configurable as S-Video, RGBS, Component or Composite) with stereo audio x1, aspect ratio auto-detection via pin 8
AV3 on front panel: S-Video x1, Composite x1, stereo audio x1

Audio / Video Outputs
Digital video: HDMI (HDCP, video only)
Analog video: RGBHV, RGBS or YPbPr (DB15 connector)
Stereo audio (Nicam stereo L/R audio for PAL tuner version)

Resolutions supported
480p, 540p, 576p, 720p, 1080i, 1080p, 640x480, 800x600, 848x480, 852x480, 854x480, 856x480, 1024x576, 1024x768, 1024x1024 ALiS, 1280x720, 1280x768, 1280x1024, 1360x768, 1360x1024, 1366x768, 1368x768, 1400x788, 1400x1050, 1920x1080;
User-customizable output resolutions.

User-friendly appliance
On screen display for easy system setup
Front panel lighting can be programmed off
Two different remote control units are included
Firmware upgradeable through USB port
Infrared output jack on back panel to connect to an external infrared transmitter
TV Commander™

Input Format:	PAL and NTSC
Dimensions:	438 x 285 x 50 mm (17.3" x 11.2" x 1.97")
Power consumption:	20W
Weight:	3.5 Kg (7.7 lb)
Power Supply:	110/220VAC Auto-sensing

Specifications and features subject to change without notice

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