

**Delivering the
Perfect Picture.**



 **Brilliant™**
Corporation

Stop Looking.

Start Experiencing.

True three-megapixel, 1280×720 progressive-scan resolution. Razor-sharp contrast. Exquisite detail. Vivid, true color from corner to corner. Precision grayscale and true blacks that let you experience movies the way the director intended. All in a sleek and beautiful 65-inch diagonal design. This is Brilliant HDTV.

If you're looking for the ultimate viewing experience—not just a step up, but a step beyond—you've arrived. Based on industry-leading Gen II liquid-crystal-on-silicon (LCoS™) technology, the Brilliant 6501mB and 6501iB HDTVs offer intensely brilliant and sharp on-screen images—in any lighting. Featuring UltraContrast™ technology, the Brilliant next-generation HDTV gives you the highest commercially available on-screen LCOS contrast ratios—up to 2000:1—in a rear-projection HDTV. With its ultra-fine-pitch 16:9 widescreen, 170-degree viewing angle, and three 1280×720-pixel (720p) panel light engine, the Brilliant HDTV offers true, artifact-free, full-motion video. What's more, its upgradeable software platform enables new high-performance features to be added as they are developed for general consumer, home theatre, or commercial ProAV applications. The 112-pound, 23-inch-deep HDTV monitor is available with an over-the-air ATSC tuner (BR6501i model).



It's HDTV.

Only Brighter. Bolder. Better.

Optimal Image Clarity: A 92% aperture ratio for each pixel delivers unsurpassed image quality and fidelity without the "screen door" effect found in plasma and LCD televisions.

Three-Microdisplay System: Ensures that fast-action content is delivered without annoying image artifacts like tearing or color break up (rainbow effects).

No Digital Video Artifacts: Full analog grayscale color reproduction offers stunningly vivid and smooth video imagery—even in subtle gray-level scenes—without the digital artifacts often seen in micromirror systems.

Dual High-Definition Input Support: Watch two high-definition channels at once: both high-quality images are able to be viewed using the picture-in-picture and dual-image split-screen features.

Home-Theatre-Quality Audio: The HDTV features impressive built-in audio capabilities: 30-watt stereo audio system with internal two-way stereo speakers and virtual-surround technology.

Long Life: A fully solid-state system, built-to-last with no spinning color wheel as in DLP.™ No degradation of image over time as in plasma.

Other Key Features:

- 3-2 Pulldown Detection (Film Mode)
- Advanced Motion-Adaptive Deinterlacer/Scaler
- Digital 3D Motion-Adaptive Y/C Separation (Comb) Filter
- Detail, Uniformity, and Contrast Enhancement
- Spatial and Temporal (3D) Noise Reduction
- Extremely Accurate Facial Tone Reproduction
- Infrared Remote Control and Receiver
- Interactive On-Screen Setup and Menus
- Expansive Aspect Ratio and Screen Layout Mode Options
- Software Upgradeable via RS-232



REAR-PANEL
CONNECTORS



SIDE-PANEL
CONNECTORS

Brilliant 6501m/iB 65" 720p HDTV Specifications

Imaging

- Three-megapixel light engine with three Brilliant BR768HC UltraContrast™ Gen II LCoS™ microdisplays
- 0.7-inch diagonal, 1280×768 (1280×720 active) pixels/display
 - >92% fill factor
 - 7ms dark-to-bright, 11ms bright-to-dark typical response times

Imager Drive Electronics

- All format conversion (480i, 480p, 720p, and 1080i) to 720p (progressive-scan) mode
- 120 Hz-progressive display refresh rate

Screen

- 65-inch diagonal, 16:9 aspect ratio (56.65"×31.88" nominal)
- Ultra-fine-pitch (0.062mm) surface features
- 170° horizontal, 50° vertical viewing angles
- Matte finish, antireflective, antistatic hardcoat

Mirror

Digital Plus Mirror™ first-surface reflective mirror

Image

- 450 cd/m² (nits) typ. luminance (brightness)
- Up to 2000:1 sequential on-screen contrast ratio
- 225:1 typ. ANSI contrast
- 6,500K/8,500K/10,500K adjustable white point¹

Digital Input

- DVI (Digital Visual Interface)—1 rear panel
- HDCP (High-Bandwidth Digital Content Protection) decoder
 - Digital video plus L/R stereo audio (DVI-I² video connector plus 2 RCA audio connectors)

Component Inputs

- HDTV/EDTV Component Video—2 rear panel
- 1080i (HDTV—high-definition television)
 - 720p (HDTV—high-definition television)
 - 480p (EDTV—enhanced-definition television)
 - Y/Pb/Pr video plus L/R stereo audio (3 RCA video connectors plus 2 RCA audio connectors per input)

SDTV Component Video—1 rear panel

- 480i (SDTV—standard-definition television)
- Y/Pb/Pr video plus L/R stereo audio (2 RCA video connectors plus 2 RCA audio connectors)

S-Video Plus Composite (VCR/Camcorder) Inputs

S-video plus composite input accompanied by L/R stereo audio (2 RCA audio connectors per S-video/composite video set)

S-video—2 rear panel plus 1 side panel

- Y/C video plus L/R stereo audio (4-pin mini-DIN video connector)

Composite video—2 rear panel plus 1 side panel

- CVBS video plus L/R stereo audio (1 RCA video connector)

PC Input

- VGA (Video Graphics Adapter)
- RGB video plus L/R stereo audio [15-pin high-density D-subminiature connector (DE-15S) plus 2 RCA audio connectors]

RF Tuners

- NTSC broadcast/cable-ready tuners—2 rear panel
- VHF broadcast channels 2–13
 - UHF broadcast channels 14–69
 - CATV channels 1–125
 - RF Input/ RF Output (2 F-connectors per tuner)

ATSC (DTV) terrestrial broadcast tuner

- 6501iB [integrated] standard *available 2Q05*

Audio Output

Broadcast Stereo Decoder

Internal Audio System

- 15 W/channel stereo amplifier, 1% THD, 1 kHz
- Virtual Dolby® Surround Technology
- Two front, internal, wide-range, 5.5-inch, two-way speakers
- Volume, balance, treble, bass, loudness, and mute controls
- Configurable as center channel

Stereo Line-Level Audio³

- L/R stereo audio, fixed, or volume tracking (2 RCA connectors)
- Subwoofer with volume-control tracking (1 RCA connector)

User Interface

Front-panel controls and indicators

- Power, input source, menu, volume (+/-), channel (+/-)
- Power-on, projection lamp, and timer status using 2 LEDs
- Expansive RS-232 control features

OSD (on-screen display) menus

- English/ Spanish/ French

Infrared remote control and infrared receiver

- Discrete remote control commands

Power

120Vac, 60 Hz nominal (104–132 Vac, 57–63 Hz)
270W max. operating, 2.5W max. standby

Lamp

150W metal halide, 4000–6000 hr., user replaceable

Size and Weight

Size: 59.5W inches x 44H inches x 23D inches
Weight: 112 lbs

Notes

1. Approximate values representing normal color temperatures.
2. DVI-I (DVI digital-analog) connector accepts DVI digital-analog cables. Analog RGB signals are not supported at the DVI connector. Apply analog RGB signals to the VGA connector.
3. Stereo audio content may be encoded for surround-sound which can be decoded by a separate multichannel home theatre audio system.



FRONT-PANEL
CONTROLS



REMOTE
CONTROL



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