High Speed CMD II LCD
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We’d like to introduce you to Clear Motion Drive II with a story about the hummingbird — a unique little bird that astounds those who study it. The hummingbird does not fly like other birds — it can fly forward, backward, up, down, and its wings, which move with unbelievable speed, change angles with each flap. So, what’s the comparison to LCD technology?

JVC’s exclusive **Clear Motion Drive II** is the “hummingbird” of LCD drivers — it does not operate the way other high speed drivers work. It is a revolutionary multi-directional driver that insures our LCD images are always smooth, crystal clear, and void of edge blur (except of course, where motion blur was intended).

### 120Hz Multi-directional Clear Motion Drive II — A Revolutionary Way to Watch TV

In October 2005, JVC introduced 120Hz Clear Motion Drive (CMD), the World’s 1st high speed driver to reduce blurring on LCD panels. Now in 2007, we introduce our 2nd Generation, CMD II — the 1st to combine a Full HD 10bit In-Plane Switching (IPS) multi-directional panel in a stunning new gloss black cabinet. The revolutionary CMD II driver doubles the LCD TV frame rate from a standard 60 to 120 frames per second by inserting a new frame. The result from our driver and panel is the elimination of blurring in all directions, all the time, for a silky smooth picture even for images with rapid movement.

#### 60Hz Drive

<table>
<thead>
<tr>
<th>A</th>
<th>A</th>
<th>C</th>
<th>C</th>
<th>E</th>
</tr>
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<tbody>
<tr>
<td>Hold Time = 16ms (1/60sec)</td>
<td>Actual location of the object</td>
<td>Where your eyes are tracking</td>
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<td></td>
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#### 120Hz Clear Motion II Drive

<table>
<thead>
<tr>
<th>A</th>
<th>B *New</th>
<th>C</th>
<th>D *New</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hold time = 8ms (1/120sec)</td>
<td>Hold time = 8ms (1/120sec)</td>
<td>B is created from A &amp; C</td>
<td>D is created from C &amp; E</td>
<td></td>
</tr>
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</table>

*Samples 8,000+ dots to create the new frame.*

*As of June ‘07.*
Panel response speed alone does not indicate the amount of blurring.

MPRT (Motion Picture Response Time) is the response speed perceived by the human eye and the speed for reproducing an outstanding picture. A lower MPRT means less motion blurring and smoother moving images. Clear Motion Drive II, the picture-processing engine that drives the X898 Series TVs, plays just as an important role as do the panel’s specifications.

As shown on this diagram (right), a panel with an actual response speed of 8ms driven by the 120Hz Clear Motion Drive II achieves an MPRT figure (10ms) superior to that of a theoretical 0ms panel driven by a 60Hz (13ms) driver.

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**There Are Many Distinct Advantages to JVC’s Full HD 10bit IPS LCD**

While JVC’s high speed driver doubles the LCD TV frame rate for a clearer picture, we also employ the first of its kind 10bit IPS panel that offers a picture with many other advantages over other brands of LCD televisions:

- The 10bit panel offers more than 1 billion colors and unmatched natural gray scaling.
- 10bit affords 64 times smoother gradation than 8bit panels.
- When considering our 1920 x 1080 panel displays at 120Hz (2X a 60Hz panel) our X898 series display the equivalent to 4 megapixels!*
- The IPS panel offers an improved viewing angle over a standard panel.
- The color range of our 10bit panel is 102% compared to the NTSC standard color range.

*Displayable pixels per 1/60 second.
JVC’s exclusive GENESSA sets us apart as a leader in innovation and technology. The unique GENESSA chip is a 32bit turbo powered CPU processor that is the center of image reproduction. The chip combines all of our image processing, noise reducing and color management technologies into one communication unit — allowing for super fast sampling and more efficient communication between each of our core technologies.

By combining the X898 high speed panel with JVC’s exclusive 5th Generation D.I.S.T., our state-of-the-art deinterlacer and scaler, the image capability of the X898 series is unmatched. Even for lesser quality sources, D.I.S.T. detects and seamlessly up-scales any data less than 1080p to display at the full HD (1920 x 1080) resolution for an amazing image all the time. Three HDMI v1.3 inputs, the latest version of the HDMI specification, allow for seamless connection of your 1080p sources such as Blu-ray Disc and HD DVD players with 1080p (60p/60i) outputs. All combined, JVC has incorporated the most innovative technologies into our high speed LCDs to insure that no matter what you are watching it will look outstanding.

JVC Color is Natural, Vibrant and Rich with Detail …

Because of our exclusive 5 Point Color Management System, JVC LCD televisions produce color that is realistic and pure no matter what you are watching. This state-of-the-art circuit compensates for potential color range limitations with a pin-point sampling process that tells the GENESSA chip which colors need to be softened and which colors toned down. By anticipating which colors typically interfere with others and pro-actively preventing them from doing so, JVC color is simply superb.
**Superior Gamma Control ...**

Another key reason behind JVC’s superior imagery is our gamma control is far better than that which typically goes into an LCD TV. Taking credit for this is an algorithm within the GENESSA chip called **Motion Adaptive Dynamic Gamma**. This circuit actively detects areas of darker data, even in motion, and preserves the tonal details and gradations with those areas so that they remain rich with detail and never appear muddied.

Note on the simulated image how the Dynamic Gamma circuit keeps this dark image so clean and full of detail that you can make out the details in the trees on the JVC side.

**HD Range 150 MHz Digital Super Detail (DSD)**

HD Range DSD is another powerful JVC image enhancing feature that insures all scenes, even the most demanding action scenes, are reproduced with a minimum of edge blur. For high action scenes HD DSD enhances the edges of moving object to reduce blur. For still and minimum motion scenes HD DSD eliminates edge glare with an advanced natural compensation measure. Via communication with the GENESSA chip, HD DSD ensures a natural focus that is unparalleled in other 1080p televisions.
**MPEG Noise Suppression**

Block noise and mosquito noise cause distortion around the edges of objects in MPEG video. This particular type of noise comes from radical steps that are inherent within the gradation of sampled pixels in MPEG video sources. JVC’s special MPEG Noise Suppression filter detects and reduces this type of noise 75% more effectively than in the past. JVC’s approach is also highly effective at reducing noise inside gradation without degrading the image resolution, even for off-air digital broadcasts.

**Superior Picture Reproduction Overall ...**

No matter who the TV manufacturer, a central challenge to any High Definition TV is noise reduction. The reason for this is because noise is an inherent part of broadcasts and videos, especially on older video sources. Noise reduction is an area where JVC excels because we incorporate special filters and circuits to take care of every kind of noise.

**Digital Video Noise Reduction** detects and stabilizes digital video noise to reduce any graininess. Its “real time” detection of noise provides for intelligent control and improved noise reduction for an overall smoother image. An added adaptive processor for the DVD input insures that all your video sources are noise free.

**A 3D Y/C Digital Comb Filter w/Cross Color Eliminator** detects and reduces embedded dot and color interference from digital broadcast and component signals for crystal clear images.

**Natural Progressive Technology** converts interlaced video to progressive to insure the smoothest picture. Natural Progressive works by insuring total focus in areas that normally blur, such as where fast movement and where skewed lines exist, so images are always smooth.

**Natural Cinema (3-2 Pull Down) Technology** is an edge smoothing circuit that samples and compensates for the jagged edges commonly found in videos that were converted from film. This filter is especially helpful with movies on DVD.
**Convenient Home Theater Capabilities**

**Unique Remote Design Adds Convenience & Style ...**

The illuminated universal remote, RM-C1400, controls your TV, easily navigates the menus, and is programmable for many brands of Cable Set Top Boxes, VCRs, DVDs and Audio products such as receivers, integrated amps, and HTIB systems. In addition, direct video input buttons let you easily toggle between sources, making it the only remote you may ever need.

Dual IR Blasters that fire simultaneously allow for a broader IR range than typical remotes. IR 1 (positioned in front, aiming forward) allows for traditional style point and shoot control. IR 2 (angled slightly downward) is positioned for when you hold the remote in hand like a book to read the buttons — the television still receives the signal without you having to aim the remote directly at it.

**A Complete Sound Package with MaxxAudio & Oblique Cone Speakers**

**MaxxAudio.** JVC is proud to be the first TV manufacturer to incorporate Waves Audio MaxxAudio suite of psycho-acoustic technologies into our LCD televisions. To heighten audio impact in movies and sports scenes, the harmonic effect of MaxxBass and MaxxTreble provides natural deep bass and brilliant high sound without distortion that can be enjoyed from just the TV speakers, while MaxxStereo widens the sound field. In addition, MaxxSound gives you a consistent sound volume. Distinct advantages to the MaxxAudio suite are rich and powerful bass harmonics even at low volume, and powerful and dynamic sound from the TV speakers that is free of noise can be enjoyed.

**Twin Oblique Cone Speakers.** With 20W total audio power, our LCDs generate superb sound. With JVC’s original bass-reflex oblique cone speakers situated on the bottom of the TV, the speakers deliver sound upwards from their off-centered voice coil which reduces distortion and optimizes sound quality for anyone sitting in front of the TV.
**Great Convenience Features Add to Your Perfect Experience!**

**Smart Package.** Each X898 model comes with what we call the Smart Package which, when turned on, makes the “Smart Features” it controls work automatically.

**Smart Caption** automatically turns on closed captioning when you press the CC button on your remote control.

**Smart Picture** monitors the Average Picture Level (APL) and automatically adjusts the contrast to make sure that the picture is never too bright or too dark. This feature insures the contrast and detail are optimal.

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**Connect All Your Components to JVC’s High End Jack Pack w/Gold Plated RCA Jacks**

**Built-in ATSC Tuner w/Clear QAM** – A built-in ATSC tuner allows you to receive over-the-air digital terrestrial broadcasts. The Clear QAM tuner allows you to receive unscrambled digital cable signals.

**3 HDMI v1.3 w/HDCP Inputs** – Equipped with three HDMI v1.3 Inputs, the latest version of the HDMI specification that allows for seamless connection to 1080p (60p/60i) output devices such as Blu-ray Disc and HD DVD players.

**RS-232C Input** – For customers with RS-232C remote home systems, this 9 pin serial interface allows for integration with those advanced home theater devices.

**PC Input** – This D-Sub 15 Pin XGA/VGA compatible PC input lets customers connect a compatible computer.

**Smart Video Input** – Containing Component, S-Video, and Composite jacks, this input automatically detects the signal source connected to your optional AV receiver.

**Auto Sensing Component Video Inputs** – All models in this book contain two component video inputs for all video signals from 480i to 1080i video sources.

**Additional Inputs/Outputs** – Each model also contains three AV Inputs, an S-Video Input, an Optical Digital Audio Out, and a Fixed Audio Out.
Key Convenience Features
✓ No hassle HD with built-in ATSC tuner and Clear QAM
✓ New menu system
✓ Illuminated universal remote for TV/STB/VCR/DVD/Audio and w/direct video input buttons
✓ 9 Selectable Aspect Modes
✓ Matching glossy black table top stand included

Specifications
✓ Native Contrast Ratio: 2000:1
✓ Response Speed: 4.5msec
✓ Brightness: 500cd/m²
✓ Viewing Angle: 178°
✓ VESA Compliant for wall mounting (200 mm x 200 mm)

Key Picture Detailing Features
✓ 3D Y/C Digital Comb Filter with Cross Color Elimination
✓ 5 Point Color Management
✓ HD Range Digital Super Detail
✓ Natural Cinema (3-2 Pull Down)
✓ Black Level Expansion
✓ 4 Video Status Modes (Standard/Game/Theater/Dynamic)

Sound Features
✓ 20 Watts Total Audio Power
✓ MaxxAudio Suite with MaxxBass, MaxxTreble, MaxxStereo, and MaxxVolume
✓ Twin Oblique Cone Speakers w/Bass Reflex
✓ Turn On Volume & Volume Limit

Inputs & Outputs
✓ 3 HDMI v1.3 w/HDCP Digital Video Inputs
✓ 1 RS-232C
✓ 1 PC Input (D-Sub 15 Pin) XGA/VGA Compatible
✓ 2 Auto Sensing Component Video Inputs (Gold Plated)
✓ S-Video & 3 AV Inputs (Gold Plated)
✓ Smart Video Input
✓ Optical Digital Audio Output
✓ Fixed Audio Output

The Competitive Advantage
✓ 37” Full HD 120Hz 10bit IPS LCD Panel
✓ Powered by 32bit GENESSA w/D.I.S.T. 1080p
✓ MPEG (Block) Noise Reduction
✓ Motion Adaptive Dynamic Gamma
✓ Theater Pro II Picture Calibration
✓ Multi-screen POP with Split/Freeze/Swap
✓ Smart Sensor Eco Friendly Mode
✓ ENERGY STAR Compliant
**The Competitive Advantage**

- ✓ 42” Full HD 120Hz 10bit IPS LCD Panel
- ✓ Powered by 32bit GENESSA w/D.I.S.T. 1080p
- ✓ MPEG (Block) Noise Reduction
- ✓ Motion Adaptive Dynamic Gamma
- ✓ Theater Pro II Picture Calibration
- ✓ Multi-screen POP with Split/Freeze/Swap
- ✓ Smart Sensor Eco Friendly Mode
- ✓ ENERGY STAR Compliant

**Key Convenience Features**

- ✓ No hassle HD with built-in ATSC tuner and Clear QAM
- ✓ New menu system
- ✓ Illuminated universal remote for TV/STB/VCR/DVD/Audio and w/direct video input buttons
- ✓ 9 Selectable Aspect Modes
- ✓ Matching glossy black table top stand included

**Specifications**

- ✓ Native Contrast Ratio: 2000:1
- ✓ Response Speed: 4.5msec
- ✓ Brightness: 500cd/m²
- ✓ Viewing Angle: 178º
- ✓ VESA Compliant for wall mounting (400 mm x 200 mm)

**Key Picture Detailing Features**

- ✓ 3D Y/C Digital Comb Filter with Cross Color Elimination
- ✓ 5 Point Color Management
- ✓ HD Range Digital Super Detail
- ✓ Natural Cinema (3-2 Pull Down)
- ✓ Black Level Expansion
- ✓ 4 Video Status Modes (Standard/Game/Theater/Dynamic)

**Sound Features**

- ✓ 20 Watts Total Audio Power
- ✓ MaxxAudio Suite with MaxxBass, MaxxTreble, MaxxStereo, and MaxxVolume
- ✓ Twin Oblique Cone Speakers w/Bass Reflex
- ✓ Turn On Volume & Volume Limit

**Inputs & Outputs**

- ✓ 3 HDMI v1.3 w/HDCP Digital Video Inputs
- ✓ 1 RS-232C
- ✓ 1 PC Input (D-Sub 15 Pin) XGA/VGA Compatible
- ✓ 2 Auto Sensing Component Video Inputs (Gold Plated)
- ✓ S-Video & 3 AV Inputs (Gold Plated)
- ✓ Smart Video Input
- ✓ Optical Digital Audio Output
- ✓ Fixed Audio Output
Key Convenience Features
- No hassle HD with built-in ATSC tuner and Clear QAM
- New menu system
- Illuminated universal remote for TV/STB/VCR/DVD/Audio and w/direct video input buttons
- 9 Selectable Aspect Modes
- Matching glossy black table top stand included

Specifications
- Native Contrast Ratio: 2000:1
- Response Speed: 4.5msec
- Brightness: 500cd/m²
- Viewing Angle: 178°
- VESA Compliant for wall mounting (400 mm x 200 mm)

Key Picture Detailing Features
- 3D Y/C Digital Comb Filter with Cross Color Elimination
- 5 Point Color Management
- HD Range Digital Super Detail
- Natural Cinema (3-2 Pull Down)
- Black Level Expansion
- 4 Video Status Modes (Standard/Game/Theater/Dynamic)

Sound Features
- 20 Watts Total Audio Power
- MaxxAudio Suite with MaxxBass, MaxxTreble, MaxxStereo, and MaxxVolume
- Twin Oblique Cone Speakers w/Bass Reflex
- Turn On Volume & Volume Limit

Inputs & Outputs
- 3 HDMI v1.3 w/HDCP Digital Video Inputs
- 1 RS-232C
- 1 PC Input (D-Sub 15 Pin) XGA/VGA Compatible
- 2 Auto Sensing Component Video Inputs (Gold Plated)
- S-Video & 3 AV Inputs (Gold Plated)
- Smart Video Input
- Optical Digital Audio Output
- Fixed Audio Output

The Competitive Advantage
- 47” Full HD 120Hz 10bit IPS LCD Panel
- Powered by 32bit GENESSA w/D.I.S.T. 1080p
- MPEG (Block) Noise Reduction
- Motion Adaptive Dynamic Gamma
- Theater Pro II Picture Calibration
- Multi-screen POP with Split/Freeze/Swap
- Smart Sensor Eco Friendly Mode
- ENERGY STAR Compliant
3D Y/C Digital Comb Filter w/Cross Color Elimination
This filter eliminates embedded interference by removing cross color/dot interference that can remain inside the digital broadcasting or component signals.

32bit GENESSA Processor
Exclusive turbo powered CPU dedicated to the image creation process. At the core, all the technologies that drive JVC imagery are integrated into this single chip yielding better and faster calculations and better picture quality.

5 Point Color Management System
Color Management compensates for color range limitations and insures JVC colors are reproduced with dimension and vivid detail with a 5th axis dedicated to flesh tone color sampling.

Selectable Aspect Modes w/EZ Fill
Selectable aspect modes let you set the aspect ratio of what you are watching to suit your tastes. Standard signal modes include Regular/Panorama/Cinema/Full. HD signal modes include Full/Cinema Zoom/Panorama Zoom/Slim and Full Native.

ATSC Digital Tuner (Built-in)
A built-in ATSC tuner will receive over-the-air digital terrestrial broadcasts without the need for a set top box.

Channel Label/Video Input Label
Choose from a preset list or make up your own channel names for TV stations and video inputs.

Clear QAM
The Clear QAM tuner allows you to receive unscrambled digital cable signals.

Favorite Channel Memory
This new feature allows you to register up to 24 channels as favorites. The system keeps them in a list accessible from the “Favorite” button on the remote control.

HDMI w/HDCP Digital Video Input
Allows for uncompressed, high bandwidth digital connectivity from compatible devices.

HD Range Digital Super Detail Circuitry
Circuitry that keeps the picture completely focused for both still and highly active images.

Interactive Plug In Menu
The interactive menu system prompts you to select your default menu settings.

MaxxAudio
The MaxxAudio suite of sound enhancement features gives X898 series LCDs an unrivaled sound quality.

Motion Adaptive Dynamic Gamma Correction
DGC utilizes data from every signal level to insure that tonal gradations are preserved in dark areas making sure images never appear muddied.

MPEG Noise Suppression
Filter that effectively reduces the block and mosquito noise common in MPEG video.

Natural Cinema (3–2 Pull Down)
Minimizes "Telecine" or jagged edges on software converted from film to video.

Oblique Cone Speakers
Designed with the voice coil off-axis, Oblique Cone Speakers project sound upwards toward the viewer for better sound dispersion.

On/Off Timer w/On-Timer Volume Setup
Use it as a decoy when you’re out of the house, or as an alarm clock. This timer feature lets you set your TV to turn on and off at a specific time and set volume level.

Return+
The Return+ feature lets you set a channel to be returned to after channel surfing. Ordinary Return brings you back to the last channel viewed.

Sleep Timer
Fall asleep to your favorite shows with the Sleep Timer set to turn the TV off for you (timer range is 15 to 180 minutes).

Smart Captions
Closed captions turn on automatically when you press the Muting button on your TV remote.

Smart Input
The Smart Input contains Component, S-Video, and Composite jacks that automatically detect the type of connected signal source (via optional AV Receiver).

Smart Picture
Makes the brightness level of the picture perfect for each scene to preserve contrast and detail.

Theater Pro II
This calibration feature affords “pro level” picture control for colors, detail and temperature.

Turn On Volume
This feature allows you to set a specific volume level for each time you turn on the TV.

Volume Limit
This feature allows you to set a limit so that the TV volume cannot accidentally be set too high.

XDS ID Display & Auto Clock Set
Automatic detection and setting of channel IDs and date and time data.
# Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Models</th>
<th>LT-37X898</th>
<th>LT-42X898</th>
<th>LT-47X898</th>
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<td>42&quot; Wide (LCD)</td>
<td>47&quot; Wide (LCD)</td>
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<td><strong>Clear Motion Drive II</strong></td>
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<td>Yes</td>
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<td>1920 x 1080 (1080p)</td>
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<td>178º</td>
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<td><strong>Motion Adaptive Dynamic Gamma</strong></td>
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<td><strong>MPEG (Block) Noise Reduction</strong></td>
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<td><strong>Sound Features</strong></td>
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<tr>
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<td>Panel w/Stand weight</td>
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<td>Smart Sensor Eco Friendly Mode</td>
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<tr>
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<td>ENERGY STAR Compliant</td>
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</tr>
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</table>

**Notes:**
- Specifications are subject to change without notice.
- Models accept 480i, 480p, 720p, 1080i and 1080p (60i/60p) signals and display at 1080p.
- All images in this catalog are simulated to show effects.
- MaxxBass is a registered trademark of Waves Audio, Ltd.
- Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.
- “JVC” is the trademark of Victor Company of Japan, Limited.
- HDMI is a trademark of HDMI Licensing L.L.C.
- Specifications are subject to change without notice.