

TVLogic NAB News

The official newspaper of TVLogic

April 8~11, 2013

TVLogic – 2013 NAB Show Preview

Wes Donahue
 Director, Sales & Marketing,
 TVLogic U.S. & Latin America

Las Vegas, NV - After more than a decade of growth and development, TVLogic has emerged as one of the leading broadcast and professional monitor manufacturers in the world. At the 2013 National Association of Broadcasters Show in Las Vegas, NV April 8-11, we are showcasing our latest crop of innovative video monitor systems.

Our 2013 line-up consists of 38 models ranging from a 2" multi-channel rack monitors up to a 56" 4K monitor. Unveiled for the first time are three exciting new prototype display technologies.

1. The World's Largest Broadcast OLED – a 55" Organic LED display designed for color-critical post production and mastering applications.

2. A 30" 4K DCI (4096x2160) monitor designed for on-set 4K motion-picture monitoring and 4K post-production applications.

3. A 1920x1080 9" Full HD field



production monitor designed for uncompromising full HD field monitoring.

In addition to our new technology prototypes, TVLogic will introduce 5 new models - including two production monitors - a high luminance 7" monitor for outdoor shooting and a 9" monitor for production and OB trucks.

The new SRM-074W is the brighter sibling (no pun intended!) of the LVM-074W with a maximum luminance output of 1,000cd/m². We've also added 3G-SDI input to



TVLogic Booth (NAB 2012)

our 9" (960x540) LVM-091W-3G for production and OB truck applications requiring higher frame and/or data rates.

In our popular LVM series we're introducing two new studio monitors with 3G-SDI capability. The LVM-182W is an 18.5" monitor with 1366x768 resolution and LVM-232W is a 23" monitor with 1920x1080 resolution.

For multiple sources in tight spaces, the PRM-207Q is ideal as a 1RU multi-format broadcast rack monitor with 7 x 2" 960x540 LED backlit LCDs.

In 1998, David Rehr, President and CEO of the NAB wrote "The transition from analog to digital television (DTV) represents the most significant advancement of television technology since color TV was introduced."

The idea of 'True Digital' does not mean something without analog, but rather something uniquely designed to best extract the truest representation of the digital source possible. TVLogic has explored the boundaries of resolution, color gamut

and bit depth in our efforts to design and manufacture the most accurate and feature-rich monitor systems available to broadcast and motion picture professionals.

Today, most digital work flows for broadcast are based on Full HD (1920x1080). We continue to explore full HD resolution in all sizes (including a new 9" prototype, on display in our booth). However, 4K and even 8K resolutions are imminent.

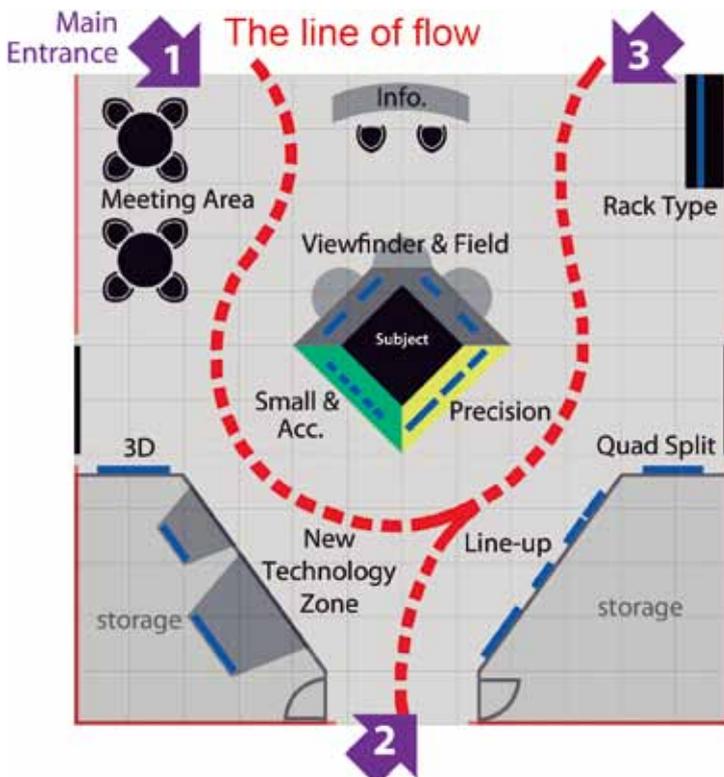
Simply stated, our goal is to design professional display technologies that continually improve upon the truest possible visual reproduction of motion pictures. Our research and development group is constantly looking at the latest innovations in LCD and electroluminescent display technologies to identify and produce newer, better video monitoring systems.

One such advancement is our prototype large format organic LED display. We first introduced a 15" on-set production OLED in 2010. At the time, it reproduced the most accurate video image possible on a flat-screen monitor. Today, we are demonstrating the very latest OLED technology has to offer, a 55" organic LED display designed for color-critical post production. With unprecedented color gamut and contrast, it represents the next evolution of large format displays.

In our efforts to bring highest-resolution displays to cinema production professional, we determined that for digital cinema acquisition, a monitor that can display both full DCI 4K (4096x2160) resolution and color space is required. As you will see when you look at the 30" DCI 4K prototype display, both of these requirements will be met in our next-generation 4K monitor.

Visit TVLogic booth at South Hall SL1605 where you will find the latest innovation for monitors as well as our full line of 38 broadcast and professional monitors.

NAB 2013 TVLogic Booth Layout



Visit Booth SL1605

Any Size. Any Source. Any Place.

10 series, 18 sizes, 38 models that covers all professional needs.



New

**HD/3G Multi-Format
LVM-091W-3G/
182W/232W**

TVLogic unveils 3 new monitors that support SD/HD and 3G SDI.



New

**7" Sunlight Readable
SRM-074W**

7" Viewfinder monitor with high luminance of 1,000cd/m²



Meet Kyung-Kook Lee of TVLogic Co., Ltd.

Kyung-Kook Lee
C.E.O of TVLogic Co., Ltd.

Hello, my name is Kyungkook Lee, President and CEO of TVLogic Company Ltd., I am very pleased to meet you at our 2013 exhibit booth. TVLogic has exhibited at NAB Show for the past decade. We're very proud of our NAB membership because this organization plays a vital role in shaping the direction of technological development in the broadcast segment. And with 90,000 attendees from all over the world, it gives us a chance to meet more of our customers in one place than any single event can offer.

TVLogic designs, develops and manufactures the highest quality video monitoring systems

available for broadcast, production and post-production as



well as digital signage and multi-viewer applications. With industry-leading video processing technology and advanced digital signal processing algorithms, TVLogic offers

superior video quality and accurate picture reproduction throughout our extensive monitor line.

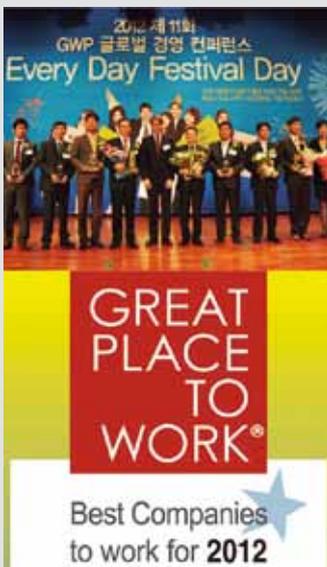
Our unique technology and innovative designs have provided

customers in top broadcasting and production facilities around the world with reliable reference grade displays for the most demanding critical viewing applications.

TVLogic's theme for the 2013 NAB Show is "True Digital, True Resolution, True Color". With this in mind, we've assembled our most innovative line-up to date for the NAB Show. We really hope that you take a close look at all of our new products and we welcome your feedback.

TVLogic is growing rapidly and, thanks to our customers, our market share has continuously increased for last 10 years. We believe that this growth is made possible by constant innovation and a focused effort to meet our customers' needs through the support of your local resellers. With your feedback and support, we will continue to design and produce the best products for you, our loyal customers. Thank you.

Great Work Place for 2012 "Best Companies to work for 2012"



Alicia Hong
Marketing Assistant Manager

TVLogic was recently selected one of the 100 Best Korean Companies to Work for. This award is given by GWP (Great Work Place) Korea and the winners are regarded as exemplary companies that create desirable corporate cultures. Additional characteristics of GWP winners include high regard of management by

employees, pride in their workplace and products and a strong sense of comradery among workers.

TVLogic has focused on the company and employees "Growing Together" by supporting many training programs including international language study. TVLogic also offers employees recreational opportunities to join company clubs for employees with such diverse interests as Photography, English language, Soccer and Basketball. And many events have been held that include employees' families.

There are added benefits like book rental, extra pay for non-smokers, and TVLogic offers an employee pension plan. With all these programs and benefits, TVLogic was also selected one of "500 Korean Power Companies" to work in.

TVLogic's CEO, Kyungkook Lee said "It's a great honor to win "Great Work Place to Work for 2012".

TVLogic's company slogan is "Work happily". We'll keep doing our best to make TVLogic the best place to work by building trust and sharing the corporate vision."

TVLogic Unveils New Dynamic Website

Nak-Yong Kim
Marketing Staff

TVLogic recently launched their new, multi-access website that automatically senses smart phone and tablet screens and populates the webpages according to the device. This dynamic website is also called a 'Responsive Web Design'. According to Wikipedia, it is 'a web design approach aimed at crafting to provide an optimal viewing experience - easy reading and navigation with a minimum of resizing, panning and scrolling - across a wide range of devices (from desktop computer to momintors to mobile phones.'

As the access to its website through mobile devices is rapidly

increasing, TVLogic has renewed its website to give the best user experience to customers, employeeyes and visitors. For example, if you have an iPhone4S which has 960x640 resolution and visit a website that is designed to look good on the desktop monitor, you may have to scroll a lot because of the fixed resolution of the website. TVLogic's new homepage can accommodate four different resolutions for mobile devices - that is from 540 to 1280 pixels horizontally. "All the contents will automatically adjusted, rearranged or resized for the optimum view for mobile users" says Yong-Yeop Baek, the developer of the website.



Challenging the limits!

Resolution + Color

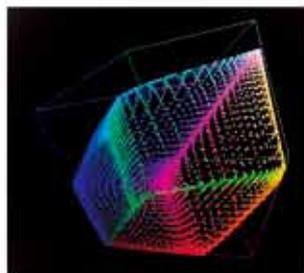


56" True Resolution(UHD) Monitor LUM-560W

The 56" LUM-560W is a 4K (3840 x 2160) 10-bit monitor designed for high resolution cinema post, industrial, military and medical applications.

- 56" 3840 x 2160 Resolution
- Matte Finish Panel
- 1:1 pixel mapping modes
- Supports TVLogic Color Calibration Utility for proper color alignment
- Firmware update using Ethernet or USB
- GPI (RJ45)
- Marker
- Blue Only / Mono
- Quad Split Mode
- Key lock
- Selectable 5 function keys
- H/V Delay
- Monitor control using RS422

True Color(10-Bit Color Critical LCD) Monitor XVM-175W/245W/325W



The XVM-Monitors utilizes a High-Purity RGB Matrix LED backlight(EEFL for XVM-325W) array to reproduce the most accurate color possible on an LCD. The XVM-Monitors meets most of EBU Grade 1 specifications for color critical monitors while retaining all of the broadcast features found in the popular LVM Series.

- 1920x1080 Native HD Resolution
- Matte Finish Panel
- High-Purity Precision RGB Matrix LED Backlight Array
- 1:1 Pixel Mapping Modes for SD/HD
- Supports TVLogic Color Calibration Utility for proper color alignment
- Supports Multi-point Calibration for RGB and White uniformity correction
- Supports 3D LUT & Adjustable Gamma(1.0 to 3.0) and
- Supports 3rd party 3D LUT formats for import and export
- Firmware update by using Ethernet or USB
- GPI (RJ45)
- Timecode Display (VITC/VTC)
- Waveform/Vectorscope (Y/Cb/Cr, RGB Wide type, Line waveform and Range Error)
- Marker / User Aspect
- Blue Only/Mono
- X3 Zoom(PBP)
- Key lock
- H/V Delay
- UMD (ANC, Manual, Dynamic and User)
- Closed Caption: CEA- 608/708 (SDI), OP-47 (XVM-175W/245W)
- Monitor control by using RS422

TVLogic Prototype Zone

9" 3G capable FHD Monitor "LVM-095WF"

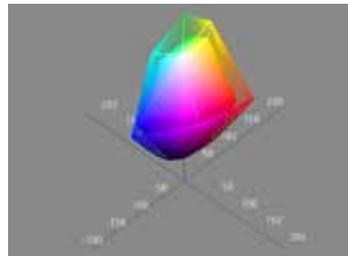
Charlie Shin
Marketing Director

TVLogic is introducing the LVM-095WF, a prototype 9-inch monitor with Full HD resolution of 1920x1080, which is exactly 2 times the resolution of our other - LVM-091W and LVM-091W-3G. With no scaling and with 1:1 pixel matching in native Full HD resolution, artifact-free video display is possible on a compact 9" monitor. A wide-gamut LED backlit LCD panel insures accurate color reproduction of ITU-R BT.709 HD sources.

Professional monitors under 10-inch are widely used in the studio, OB truck and for production

monitoring in the field. However, inaccurate and poorly calibrated panels in these sizes can often make it difficult for operators to make accurate color adjustments. The LVM-095WF provides stable and accurate color reproduction, time after time.

The LVM-095WF will be a true digital monitor - equipped only with digital interfaces - 2xSDI inputs, 1xSDI output and 1xHDMI input. Field upgrades can be made through USB connector and more advance control through two RS-422 ports will be added for maximum flexibility. All the professional features including Timecode Display, Waveform/Vector Scope, Range Error, User Aspect Ratio, UMD, Closed Captions, Focus



and more are included.

This new 9" Full HD monitor will be available by Q3.

TVLogic Prototype Zone

30" True 4K Monitor "LUM-300W"

Charlie Shin
Marketing Director

TVLogic is proud to introduce a prototype of its new 30-inch 4K DCI monitor - bringing TRUE 4096x2160 resolution and DCI color space to ultra-high resolution monitoring - the LUM-300W has a true digital processing engine with digital interfaces of 4 xHD/3G-SDI, 4 x HDMI and 2 x DisplayPort for versatile signal input. A 10-bit wide-gamut white LED backlit panel with a built-in 3D look-up table makes the creation of on-set looks more compelling than ever.

The LUM-300W will automatically detect and synchronize the panel's

frame rate from 48Hz to 60Hz to match 24p and 48p, 50Hz for 25p and 50p and 60Hz for 30p and 60p.

The monitor also supports the true resolution and true wide color gamut that meets the specification of the DCI (Digital Cinema Initiative). Digital cinema requires not just 4 times the resolution of the FHD (1920*1080) which is 3840*2160, but a little wider horizontal resolution of 4096*2160. And it also requires a wider color gamut than HDTV standard (ITU-R BT. 709) with a warmer white reference.

The LUM-300W is expected to be the first 4K monitor in the industry that satisfies the true color depth, the true resolution, the true color



gamut that meets the requirements of the digital cinema and the true frame rate that covers both digital cinema and the UHDTV standards.

Having the latest digital interfaces, powerful luminance control capability, wide viewing angle, plus all the professional features and robust design TVLogic is known for - the LUM-300W will be the ideal solution not only for finishing and color correction, but also for DCI on-set monitoring. The LUM-300W is expected to be available in Q413

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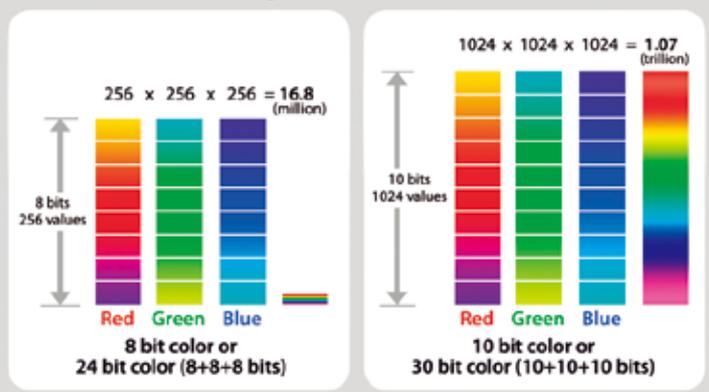
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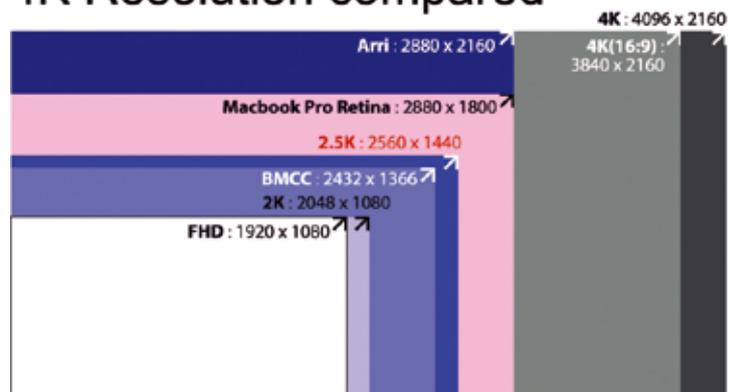
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Color Depth of 8bit vs 10bit



4K Resolution compared



TVLogic New Products-Monitor 9" Additional 3G-SDI "LVM-091W-3G"

Denny An
Marketing Senior Manager

This product is a new product that features 3G-SDI is added to the traditional 9 inches model has been upgraded.

This updated version of our versatile 9" broadcast production monitor features a high contrast (1000:1) 960x540 anti-glare hard-coated LCD panel designed for minimum glare and accurate HD downscaling (exactly 1/2 1920x1080).

LVM-091W-3G provides front panel individual control of Brightness, Contrast, Chroma, SDI A/B select, Analog, Aspect select (16:9, 4:3), H/V Delay, Embedded Audio Level Meter, Various Scan Modes(Over, Zero, 1:1), Blue/Mono, Waveform/ Vector Scope and Focus Assist, 1:1 Pixel Mode, a full range of selectable frame Markers, mattes and colors, Auto-Color Calibration Support, ODS user interface, Rack Mountable and more.



Panel	Panel	LCD
	Size	9"
	Resolution	960 x 540 (16 : 9)
	Pixel Pitch	0.207mm
	Color Depth	16.7M (True 8bit)
	Viewing Angle (Typ.)	170°(H) / 170°(V)
	Luminance (Max.)	400cd/m ² (center)
	Contrast Ratio	1000 : 1
Display Area	199(H) x 112(V) mm	

TVLogic New Products-Monitor 18"/23" Broadcast Monitor "LVM-182W/232W"

kyle Lee
Sales Staff

It is no secret that the broadcast electronics business gets more competitive with each passing year. While pricing pressure is always present, many buyers tend to do a lot of comparison shopping to ensure they are getting the best "bang for their buck."

To remain competitive, manufacturers have to constantly achieve better performance at increasingly competitive price points.

Two new TVLogic 18.5" and 23" models are designed with these buyers in mind. The new 1366x768 LVM-182W and 1920x1080 LVM-232W models are designed to be feature-rich, yet easier to use with an attractive, light weight and durable thin bezel frame.

By combining the latest IPS LCD panel technology with next-gen product design and 3G video processing, the LVM-182W and LVM-232W are designed provide peak performance in broadcast facilities requiring cost-effective displays with advanced signal monitoring features such as; Waveform, Vector Scope, Markers, Audio level meter display, Focus assist, Timecode display, UMD display and Range error.

Calibration to EBU and Rec.709 specifications for HD broadcast video allows for accurate and standardized color reproduction. And USB firmware updates are easy to apply. Take a close look at our latest generation of competitive broadcast displays.

Are you sure your new broadcast monitor has Wide-Angle-View capability?

TVLogic's new 18.5" & 23" monitors give you the best Wide Viewing Angle possible in the industry.



		LVM-182W	LVM-232W
Panel	Panel	LCD	LCD
	Size	18.5"	23"
	Resolution	1366 X 768 (16 : 9)	1920 x 1080 (16 : 9)
	Pixel Pitch	0.300mm	0.2652 mm
	Color Depth	16.7M (Dithered 8bit)	16.7M (True 8bit)
	Viewing Angle (Typ.)	178°(H) / 178°(V)	178°(H) / 178°(V)
	Luminance (Max.)	250cd/m ² (center)	250cd/m ² (center)
	Contrast Ratio	1000 : 1	1000 : 1
Display Area	410(H) x 230(V) mm	509(H) x 286(V)	

Wireless Tx / Rx Solution for Pro's

TWH-100Tx / Rx

Wireless Transmitter module (TWH-100Tx) is housed into a durable soft case with 2 standard 1/4" screw holes that provides flexible mounting onto any camera rig.



Viewfinder LCD Monitor

LVM-074W

The LVM-074W features a high-resolution (1024x600) 7" LED backlit LCD panel housed in lightweight (600 grams) yet durable magnesium alloy case.



Field Solution



LVM-074W vs SRM-074W

7" Sunlight Readable Monitor

SRM-074W

In a bright sunny day, when shooting outdoors, images on the monitor screen cannot be clearly seen despite the sun-hood, just because the ambient light is too bright.



Camera-Top Monitor

VFM-056W/WP

The VFM-056W/WP is a state-of-the-art viewfinder monitor specially designed for professional HDSLR and camcorder shooters. Utilizing 5.6" LCD panel with high resolution of 1280x800, wide viewing angle of 170°

Compact, Light and Powerful 5.6" Viewfinder Monitor "VFM-056WP"

Alicia Hong
Marketing Assistant Manager



Compact, Light and Powerful 5.6" Viewfinder Monitor

The VFM-056WP is a lightweight viewfinder monitor designed for HDSLR and small camera monitoring. The VFM-056WP offers an outstanding picture with 1280x800 pixels packed into a compact 5.6" LCD screen.

Its revolutionary ergonomic design with light solid magnesium case achieves both durability and practical heat disbursement. A wide viewing angle of 170°, max luminance of 300cd/m², and a feature set with just about every option we offer has made the VFM-056WP the on-board monitor of choice for scores of independent shooters, ACs and DPs around the world.



The VFM-056WP has 1/4" - 20 mounting holes on top, bottom, right and left for most convenient mounting on or near the camera. Options include a wide variety of battery brackets, a unique hood, Acrylic filter and carrying cases and more.



The VFM-056WP supports multi-format input including Analog, 3G/HD/SD-SDI and HDMI offering a wide compatibility among DSLR cameras and Pro camcorder for broadcast and motion picture photography.

A rich set of sought-after features include Temperature Adaptive Color, HDMI-to-SDI Conversion Output, 1:1 pixel mode, Luma(Y') Zone Check function, DSLR Scale, Waveform,

Vectorscope, Range Error, Focus Assist, Markers, Audio Level Meter with speaker, time code display and more.

VFM-056W Features Include:

DSLR Scale

This function is optimized for Canon 5DMK2, 7D and Nikon D7000 that display various resolutions for preview, recording & playback. DSLR Scale function scales the low resolution input signal from DSLRs to fit the full screen of the VFM-056WP.

Focus Assist (=Peaking Filter)

Focus Assist function helps the shooter to easily find out the exact area in the picture with good focus, simply by adding colors on the shape or boundaries of the object in the picture.

Mono background mode is added for ultimate focus control.

Markers

Choose framing markers for CENTER, SAFETY AREA, FIT and more.

Various Scan Modes

The VFM-056WP features various scan modes ; Zero Scan, Over-Scan, Pixel to Pixel, User Aspect

Pixel to Pixel Mode

Pixel to Pixel Mode displays the original image resolution without scaling to match a certain resolution or an aspect ratio.

HDMI-to-SDI conversion output

When HDMI-to-SDI conversion output function is turned on, the HDMI input signal is converted to 720p and output through SDI port.

This function will greatly help the camera crews to communicate - watching the same video with 2 monitors.

Waveform/Vector Scope

Displays Waveform Luma (Y' level) and Vector Scope (B-Y, R-Y on XY axis) in Y/Cb/Cr, Wide and Line modes. Waveform and Vector Scope can be enlarged two times.

Range Error

The VFM-056WP can analyze the Luma(Y') and Chroma(Cb/Cr) components of the input video signal and warn the user with blinking pixels, where the video signal is over the maximum or under the minimum of the designated range. This helps the user to optimize the exposure condition of the camera.

Luma(Y') Zone Check

Displays designated Luma(Y') level as a solid color on screen to assist in exposure adjustments.

Luma(Y') Zone Check- Zebra Pattern Mode

Displays designated Luma(Y') level as a solid color on screen to assist in exposure adjustments.



Rear Tally Tally-out, Optional Tally Mount, SDI, HDMI, YPbPr, S-Video, CVBS, Ethernet, GPI(RJ45) RS444

Rack Type Monitor "LVM-174W/212W"

Alicia Hong
Marketing Assistant Manager



The LVM-174W is next-gen 17" monitor with a wide variety of mounting and configuration options. With perfect size and design for rack mounting with 6RU height, the LVM-

174W provides most comprehensive usability for Control Rooms and OB Vans.

It makes best use of space with a slim bezel and can be easily controlled by RMU-200*, TVLogic's external remote control box. The monitor supports 3G-SDI Level A/B and most of the professional features like Waveform, Vector Scope, Range Error, Marker, Luma(Y') Zone Check, UMD, Closed Caption (CEA-608/708, OP-47) and Focus Assist. Easy field update is also possible by using USB memory stick.

The LVM-212W is an ideal rack-mount monitor for video wall in control rooms and OB Vans.

The practical slim bezel design

just fits into a 19" rack. Integrating a wide viewing angle LCD panel with native Full HD resolution and 16.7M colors and TVLogic's unique video processing technology that enables high picture quality 3G-SDI and all standard features.

*RMU-200 has a 20 short-cut keys for professional functions; Scan Modes, Aspect Ratio, Color Temp., Blue Only / Mono Modes, Marker, Waveform & Vectorscope, TimeCode, ALM, Freeze, D-UMD, Range Error, Key LED, Key Lock, Closed Caption and Aperture etc.



RMU-200

Broadcast and Professional Viewfinder "LVM-074W/SRM-074W"

Alicia Hong
Marketing Assistant Manager



LVM-074W Features Include:

H/V Flip (Auto 180° pivot screen)

The LVM-074W allows the displayed image to be flipped horizontally or vertically. This feature provides flexible mounting options for camera operators.

Temperature Adaptive Color

Internal sensor measures the temperature inside the monitor and compensates the white balance drift caused by a cold or hot weather. This function is useful for shooting under various weather condition.

Conversion Output & Active Loop Through

The SRM-074W is a sister 7inch monitor of LVM-074W with high luminance capability. In a bright sunny day, when shooting outdoors, images on the monitor cannot be clearly seen despite the sun-hood, just because the ambient light is too bright. The illuminance can easily be over 50,000 Lux when

The LVM-074W is a 7" portable field / camera-top monitor with a high resolution 1024 x600 LED backlit LCD, wide viewing angle of 170° and light magnesium body. The LVM-074W is optimized for use with the latest professional HD SLRs & Camcorders and offers a wide range of professional features including: Waveform/Vector Scope, built-in HDMI to HD-SDI conversion output, Horizontal and Vertical Image Flip, Focus Assist, Audio Level Meter and more.

Other features include 4 front-panel encoder knobs for Brightness, Contrast, F5(User)/Volume, Menu functions. Assignable functions keys, Headphone and USB are also accessible. Power options include DC input and an optional V-Mount bracket.

The LVM-074W supports a complete range of NTSC, PAL and SECAM video input signals via SDI(3G/HD/SD-SDI), HDMI and analog CVBS, S-Video, Component Video and RGB.

Utilizing a solid yet light weight magnesium alloy case, the LVM-074W weighs only 600g.

The slim, all-in-one design allows for multiple configurations with threaded holes on the right, left and bottom sides for flexible mounting options on or near the camera. A tabletop stand

is included and an optional rack mount kit is available for dual display in standard 19" racks.



typical illuminance of the office is 400~800Lux. To overcome this inconvenience, TVLogic introduces SRM-074W, the luminance of the monitor instantly goes up to 1,000cd/m² simply by pushing a button. The SRM-074W offers the same performance and features of LVM-074W.



SDI-A	F1	MARKER	POWER	BRIGHT
SDI-B	F2	HV DELAY	EARPHONES	CONTRAST
HDMI	F3	BLUE / MONO	PGM	F5 / VOLUME
ANALOG	F4	MAX BRIGHT	ENTER	ENTER (DOWN / UP)
SCAN		MENU / EXIT		
ASPECT		WAVEFORM / VECTOR		



SDI, HDMI, YPbPr, S-Video, CVBS, Ethernet, GPI(RJ45), RS444

7" Sunlight Readable Monitor

SRM-074W

Sunlight Readable

LVM-074W vs SRM-074W

2013 TVLogic Main Events

KOBA 2013

Exhibit : May 13~16 2013
Visit Booth. Hall C, J-01
Coex Convention Center
(Seoul, Korea)



ib 2013

Exhibit : Sep. 13~17 2013
Visit Booth. Hall 10, D-26
Rai Convention Center
(Amsterdam, Netherland)



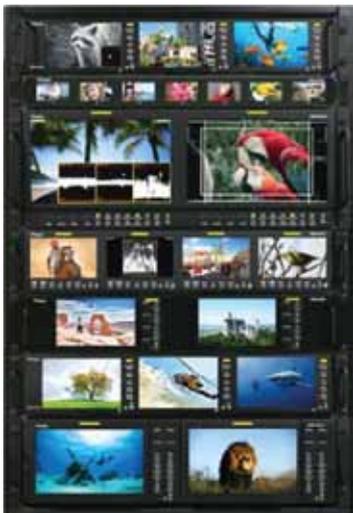
Rack Mountable Monitors "PRM-Series"

Wes Donahue
Director, Sales & Marketing,
TVLogic U.S. & Latin America

True High Definition Multi-Channel Monitoring

TVLogic PRM series rack monitor systems are available in seven different HD/SD or SD only firmwareupgradable models in 1, 2, 3 and 4RU rack sizes to meet all your rack monitoring needs.

Configured with two, three, four or seven LCD panels in 2", 4.3", 4.8", 5", 7" and 9" screen sizes, the industry-leading PRM series combines the very latest LCD panel technology and broadcast signal processing capabilities with unsurpassed precision engineering.



Utilizing high resolution 800x480 8-Bit LCD panels, PRM series monitors display accurate high definition color

in every size. This results in superior color reproduction that cannot be found in typical LCD rack monitors.

Most small-format LCD monitors use 6-Bit dithered panels. Dithering is an electronic "optical illusion" in which nearby pixels display slightly varying shades or colors to trick the human eye into perceiving the desired color. In reality, a true 6-bit LCD is capable of reproducing only 262,144 of the 16.7 million colors that are visible on the true high-definition PRM series 8-bit LCDs.

Other Monitors (6bit)



PRM Monitors (8bit)



The PRM series high-resolution 800x480 LCD panel features a 1:1 pixel mapping mode that allows users to view the native HD resolution of all video sources. All PRM series monitors (except PRM-502LE and PRM-207A) feature the most precise internal full screen

and PIP Waveform/Vector Scope monitoring available in a rack monitor system. All PRM series monitors features. The Waveform/Vector Scope can also be viewed as a semi-transparent overlay by using the Transparency option.

Waveform (Y Cb Cr)



Vector Scope Full Size



CC 608/708 closed caption standards are supported in all PRM series monitors (except PRM-502LE and PRM-207A). AFD is supported allowing for automatic display at proper aspect ratio in all PRM series (except PRM-502LE/PRM-207A).

Additional features (vary by model) include RJ11 remote control, tally, H/V delay, blue only/

monochrome, selectable LTC or VITC time code and on-screen source display, 8 channel embedded audio metering, various markers (including user defined) and safety area modes, SDI input auto detection, and user-friendly menu interface.

On top of all these useful broadcast features, the PRM series supports all HD/SD-SDI signal formats including SMPTE-274 (1080p30/29.97/25/24/24sF/23.98/23.98sF and 1080i 60/59.94/50),

SMPTE-296M (720p 23.98/24/25



/29.97/30/50/59.94/60), SMPTE-260M (1035i 60/59.94), ITU-R.BT.656 (576i 50) and SMPTE-125M (480i 59.94) standards as well as the DCI 2K digital motion picture format at 23.98psf/24psf/23.98p/24p.

Contact your local reseller for a PRM series demo and see why they truly are the everything a broadcast monitor should be!

Septuple 2" LCD 1RU Multi-Channel Broadcast Rack Monitor

New PRM-207Q



The PRM-207Q features seven 960x540 LED backlit LCD panels with sliding rack mount kit. Seven I/O includes SDI in with one SDI loop-out, UMD (Under Monitor Display), and serial firmware upgrade port. Menu selection buttons are accessed on the top of the monitor with sliding rack mount kit.

The Reference Standard in PRM Rack Monitors

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2"~9"

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- Marker
- Source ID display
- Timecode display
- UMD (Under Monitor Display)



New Biz - Smart Audio

Reference Music Playback and Archiving System

"aurender"



Charles Kim
Audio Biz Sales Director

World's First Music Player with No Ground Noise



The Aurender W20 Reference Music Player was developed in response to requests from recording studios, broadcasting companies, high end audio manufacturers and some very serious audiophiles for a reference class music player that supported word clocks, dual-wire AES/EBU mode, and provided fast browsing of extensive digital music collections along convenient selection of songs and albums. Word clocks and dual wire mode are used in studios and production facilities to ensure accurate data transmission among devices.

In digital audio, ground noise and jitter are the most important factors in determining sound quality as they have a profound effect on the performance of digital-to-analog converters. Bit-perfect digital music players send exactly the same digital data to digital-to-analog converters, yet they all sound different due to differing amounts of jitter and ground noise. The Aurender W20 Reference Music Player is the first to use lithium iron phosphate (LiFePO4) batteries to completely eliminate ground noise and jitter resulting from the use of AC current from the power mains. Using LiFePO4 batteries to provide power to audio components isolates them from ground noise traveling through the power mains and also eliminates the need for filters that are needed when converting AC to DC using traditional linear or switching mode power supplies. For non-audio critical components, a separate high grade switching mode power supply is used.

There are many kinds and sources of jitter, in the Aurender W20 Reference Music Player, a comprehensive range of pioneering technological solutions developed

through careful research are employed to dramatically reduce jitter to far below negligible levels.

Innovative Solutions

OCXO Clock and FPGA System – The Aurender W20 is one of the first music players to use ultra stable and accurate Oven Controlled Crystal Oscillators (OCXO) with sophisticated Field Programmable Gate Array (FPGA) in a digital Phase Locked Loop system to drastically reduce jitter to far below negligible levels. The advanced military grade OCXOs used in Aurender Reference Music Players are vastly more stable and accurate than ordinary crystal oscillators found in common computers and audio components.

Hybrid HDD & SSD Design – The Aurender W20 is one of the first music players to use a hybrid hard drive and solid-state drive design where the hard drive is used for storage and music is cached to the solid-state drive for playback.

Playback using solid-state drives completely eliminates jitter and electromagnetic noise resulting from use of mechanical disk drives.

Hybrid LiFePO4 & SMPS Design – The Aurender W20 is the world's first music player to incorporate lithium iron phosphate (LiFePO4) batteries to supply power to audio components and completely eliminate problems with jitter and ground noise caused by converting AC to DC power when using traditional power supplies. Two sets of batteries with alternating charging cycles eliminate the need for filters and fully isolates the audio circuits from ground noise coming from the electrical mains. A third bank of LiFePO4 batteries act as an uninterruptible power supply. Should a sudden electrical power failure occur, the Aurender W20 will power down and turn off safely without damage. In order to power non-audio critical components, a fanless high grade switching mode power supply is used.

Shielded and Damped HDDs -

The Aurender W20 Music Server comes with two 3TB internal hard disk drives for a total of 6TB storage capacity which is sufficient to store over 12,000 CDs in uncompressed audio format. These hard drives are suspended using rubber damping on aluminum brackets and encased in a thick block of precision machined aluminum to minimize vibrations, acoustic and electromagnetic noise. While the hard drives are used for



aurender s10,w20

Reference Music Playback and Archiving System

Aurender Reference Class Music Server

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*iPad and iTunes are trademarks of Apple Inc.





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John Bramford, Hi-Fi News



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Chris Connaker, Founder, Computer Audiophile



"Once I experienced the Aurender, I knew it was the logical choice for TWBAS 2012. It's just simply that good."
Jeff Fritz, SoundStage! Network



state drive for playback, thereby eliminating problems with latency and jitter associated with spinning disks and drives.

Buffered USB Audio Outputs – In addition to a full range of SPDIF digital outputs (AES/EBU, BNC, Optical, Coaxial), the Aurender W20 also comes with a unique USB Audio Class 2.0 output that delivers extremely clean and accurate digital output that enables USB Audio Class 2.0 compatible digital-to-analog converters to operate at their full potential. Since the audio circuits are powered by LiFePO4 batteries, the USB output needs to be specially buffered. As added protection from electromagnetic interference, these circuits are encased by a metallic shield.

Proprietary Motherboard – The Aurender W20 is the first music player to use an in-house designed computer motherboard developed specifically for use in digital music servers.

Aurender iPad App

While the sound quality of the audio system is important, the music collection also plays a vital role the enjoyment of music. The value of a music collection is priceless. Music is

enlightening, entertaining and can bring back long lost memories and emotions. The easier it is to play the music collection, the more often it will be listened to and enjoyed.

The Aurender iPad App is the user interface for all Aurender Reference Music Players and can be downloaded for free from the Apple App Store. Widely recognized as the one of the most responsive and intuitive music player applications available, the Aurender iPad App is packed with convenient features to make listening to music as enjoyable and effortless as possible. With the Aurender iPad* App, music can be selected individually, by album, or category and placed into the Queue for play. Music selections can be played using previously saved playlist, or the very convenient automatically saved Recently Played 500 playlist. There is even a Play Random button to automatically queue random songs from the selected album, artist, category, or folder. Just long press any second row browser button, song title, album or category and the Play Random button will appear. Pressing the Random Play button will automatically place 500 random songs into the Queue for playback. In order to speedily classify songs into custom categories, there are custom folders which can be named by

the user and will correspond to the name on the second row browser button. There is even a 5-Star Rating system and filter button, where one can give a rating of 1 to 5 stars and quickly sort songs according to their rating.

For fast and convenient searches of the music collection, there is a search window and the results will appear in real time as the letters are typed. When browsing through songs and albums, there are menu buttons to easily switch from large album cover view to small album cover view and to sort albums by album title or artist name.

The Aurender iPad App even has a Remote Support Service Request feature where the user can send an email stating their problems to the technical department and have an engineer remotely diagnose and fix problems over the Internet.

In addition to the best possible performance and convenience, the software for the Aurender W20 and the Aurender iPad App are periodically upgraded via the Internet, free of charge, so that all Aurender owners may enjoy the newest features and improvements.

The Aurender W20 Reference Music Player with iPad App retails for \$14,900 and is available for demonstration at high end audio

dealers worldwide. Try out the new way to listen to music today with Aurender Reference Music Players and bring your music collection back to life.

2013 AV SHOW SCHEDULE

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New York Audio Show New York

- 4/ 12~14**
Spain Barcelona Audio Show

- 5/ 9~12**
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- 6/ 1~3**
The Home Entertainment Show Orange County, CA, USA

- 7/ 26~28**
Capitol Audiofest in Washington DC, USA

- 7/ 20~22**
KL International AV Show at JW Marriotte Hotel

- 8/ 9~11**
California Audio Show in Crowne Plaza SFO

- 8/ 9~11**
Hong Kong AV Show

- 9/ 21~22**
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- 9/ 29~29**
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TVLogic into new Biz - All-Hybrid DVR "EYE-ON"

Paul Park
Sales Manager

Always ON-AIR. Now TVLogic will always keep its eyes on your valuable property with EYE-ON TVLogic DVR.

Our users' eyes are demanding higher standards from moment to moment. No one wants to see a blurry picture when they check their security monitor. The security market is moving to high-definition now. As a company that has the best technology in HD, TVLogic could not ignore the user's needs for HD. Therefore, we are doing what we need to. Here we go to explore the powerful features that the All-hybrid DVR has.

It is truly a Real-Time DVR. When you walk around some security shows, you can see many companies that advertise having "Real-Time", but if you ask them in detail, most of the DVRs turn out to be not-perfect Real-Time. Many offer only Real-Time for recording, not playback. They might tell you it is not easy to realize or can only play back at 720p. However,

our EYE-ON is a real Real-Time DVR which supports 25 frames at 1080p on both recording and playback.

It is an All-hybrid DVR. The "All-hybrid" makes TVLogic DVR unique. In the current security market, the need for HD is increasing so fast. If you have old equipment in your system, it is not easy to replace all the equipment at once with your budget and equipment compatibility. You need to change all DVRs and cameras at once to match their compatibility. However, with TVLogic "All-hybrid" DVR, everything is different. You do not have to change all equipment because TVLogic DVR receives Analog, 960H and HD-SDI at the same time. Any of these signals is automatically detected and analyzed by our patent-pending All-hybrid technology. The All-hybrid DVR from TVLogic is a presence like a superior mutant that accepts any input.

You can be the happiest stalker on your valuable property with TVLogic All-hybrid DVR.



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EYE-ON

HD-SDI 960H Analog-SD

Just Plug in!

All-Hybrid DVR (Patent Pending)

Analog-SD, 960H, HD-SDI, 3G-SDI Auto Detect



Just Plug in!

All-Hybrid DVR (Patent Pending)

Analog-SD, 960H, HD-SDI, 3G-SDI Auto Detect

3G-SDI Composite 960H Analog-SD

EYE-ON

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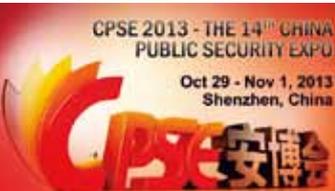
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New

HD/3G Multi-Format Monitor

**LVM-091W-3G/
182W/232W**

TVLogic unveils 3 new monitors
that support SD/HD and 3G SDI.



New

**7" Sunlight Readable
SRM-074W**

7" Viewfinder monitor with high
luminance of 1,000cd/m²

