boland

High Quality Professional Broadcast Monitors

2014

BVB SERIES
The New Standard for Television & Film

DIGITAL FULL HDTV LCD
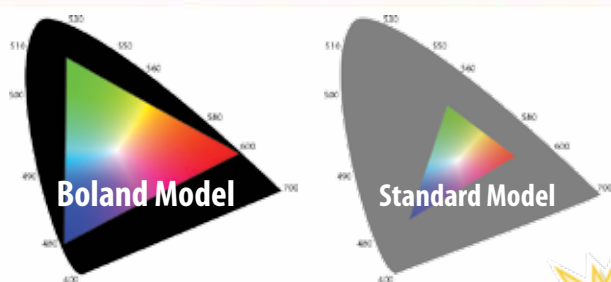## VIDEO MONITORS

SELECTION
Quality, New Technology, Worldwide Formats.

You'll see amazing images with enhanced Ultra Pixel picture quality in varying light and viewing conditions. Boland is constantly pushing the boundaries in new technology, outfitting our LCD monitors with the exact color gamut and ultra deep blacks. Red, green, and blue stability is guaranteed by the All-Digital 10- and 12-bit Processing. From the Full Resolution 72" monitors to the smallest and light-weight field monitors, you can count on Boland image precision. From Broadcast to Boardroom, we also provide custom work with multiple options, timely delivery, long warranty, and friendly customer service. See our growing line of LED models!

Series and Models
- • True Monitoring Performance from 3G Sources (SMPTE 372 & 425) (SE and 3G Series)
- • Input Compliment Varies by Series, Please Check Series for Specific Inputs
- • Models are Rec 709 Color Primaries in all Sizes (Hi-Color Gamut in 12" size)
- • Screens are 10-bit and 12-bit Processing
- • Multiple Frame Marker and Aspect Ratio Display Choices (AFD, WSS, Auto, Manual)
- • Features: Most Features with Direct Access Front Panel Buttons
- • Full Remote Controls (TCP/IP, RS-232, and IR all standard)
- • Calibrated Displays, SMPTE RP166 Dimmable Brightness, Contrast >1000:1 (most models)

Boland Model

Standard Model

new!

- • **Rec 709 Primaries:**
     D65: x=0.313, y=0.329
     R: x=0.640, y=0.330
     G: x=0.300, y=0.600
     B: x=0.150, y=0.060
- • **Full HD Monitors available, 17" and above**
- • **Extended Color Spectrum / Wide Color Gamut**
     Most LCD Monitors have a span of only 40%.
     Boland monitors have Rec 709 primaries and
     controlled SMPTE C / D65 white color temperature,
     providing deep rich colors against ultra deep blacks.
- • **All-Digital 10- & 12-bit Processing, 8-bit & 10-bit models**
- • **Low Latency Processing for lip-sync control**
- • **Color Presets with Adjustable Whites & Blacks:**
     Optional external Automatic Probe Calibration System
     • 3200°   • 6500°   • 8000°   • 9300°
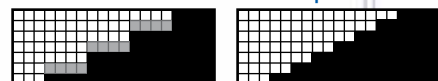
- • **Very Wide Viewing Angles, most are 178°**
- • High Resolution Digital Adaptive Comb Filters
- • Aspect Ratios: 16:9, 4:3, and Variable Aspect ratio Images

- • **Wide-ranging Applications**
- • Remote and OB Vans
- • Film & TV Field Production
- • ENG Vans & Helicopters
- • Lecterns, Lobbies, & Conf. Rooms
- • Public Safety
- • Museums
- • Jibs, Viewfinders, & Cranes
- • Control Rooms
- • Entertainment Systems

- • **Full HD with built-in support for all video formats**
- • All standard HDTV, SDTV, & PC resolutions
- • 3GSDI, Dual Link, HD SDI, SD SDI, DVI, HDMI Digital Inputs
     (SMPTE 259/274/292/296)
- • Analog Video Inputs: Composite, Y/C, YPbPr/CrCb, PC VGA
     (EIA, CCIR, VESA)
- • PC Video Resolution Modes: EGA up to WUXGA (640x ~ 1920x)

- • **Diagonal Line Compensation Process Circuit using Emmy-Winning Directional Correlation DeInterlacing (DCDi)(Faroudja)**
- • Adjustable Scans: H&V Sizes, Positions, Calibrated Exact Scans
- • Scan Reverse (H, V mirror images) (d, DHD)
- • Under/Over Scan adjustable

- • **Waveform, Vector, Audio, Peaking Displays**
     Individually Adjustable
     Windows for WFM, VEC, and
     up to 16 Channels of Audio
- • In Monitor Display (IMD)
- • Closed Captioning
- • Remote Controls: InfraRed (IR),
   TCP I/P, & RS-232
- • Lamp and LED Life up to 50,000 Hours
- • Stereo Audio Options; Audio Meter & De-Embed monitor (SE models)
- • Native DC or AC Mains Power
- • Rack, Desk stand, Wallmount, and other Mounting Options
- • Many Special Options Available for special applications.

SE Series Monitors
All SE models include Dual 3G SDI, 8 and 10 bit panels, LED Backlights on some models. All have HD HDMI/DVI(+HDCP), HD VGA, Composite and Component* with Audio Bar Graph, Waveform, Vectorscope, Focus-Pulling Peaking, Adjustable Frame Markers, plus lots more! Most models Rec 709 compliant.

VB Series Monitors
3G SDI, plus Dual Link, 8 and 10 bit panels, some with LED Backlights, HD HDMI/DVI(+HDCP), HD VGA, Composite and Component*, IMD, Closed Captioning, 3D LUT, along with Frame Markers, RS232, TCP/IP and IR remote controls. *Most models Rec 709 compliant.

HX Series Monitors
All HD models are Dual 3G SDI, 8 and 10 bit panels, LED Backlights (some models), HD HDMI/DVI(+HDCP), HD VGA, Composite and Component, along with Frame Markers, RS232 and TCP/IP and IR controls. Sizes 15" and up accept SFP (fiber). Most models Rec 709 compliant.

DVI Series Monitors
The DVI Series includes Dual HD HDMI/DVI (+HDCP) inputs combined with 8 and 10 bit panels, LED Backlights on some models, HD VGA, Composite and Component*, with Frame Markers, RS232, TCP/IP, and IR remote controls. Most models Rec 709 compliant.

DHD Series Monitors
Dual HD/SD, SDI, DVI, HD VGA, Composite and Component* are the standard inputs on the DHD Series of Monitors, this series offers 8 and 10 bit panels and LED Backlights on some models. This series comes with scan reverse standard, RS232, and IR remote controls. Most models Rec 709 compliant.

d, xd, and vp Series Monitors
The d, xd and vp series are the standard definition range of our wide variety of monitors. Used in all types of new and legacy applications. Coming with VGA, Composite, and other inputs, both the d series and xd series includes Scan Reverse. Also with remote control options.

DayBrite Series Monitors
Boland Communications offers a broad range of distinctly configured DayBrite (very high brightness) monitors for a multitude of field, outdoor, airborne and many more applications. These monitors are fully featured versions of each series above, but with LED Backlights drastically reducing the heat and power associated with conventional fluorescent lighting. Please inquire for more details. **Now in 16", 20" and 23" wide sizes (16x9)!**

*Input compliment varies by size and configuration. Please consult individual data sheets.

VB Series and OLED
The New Standard for Film and Television

The Boland VB family of monitors is comprised of *three series in one*. All models feature full resolutions of 1920x1080, Outstanding off-axis viewing, LED Backlights, Safearea Frame Markers, and In Monitor Display (IMD), plus 3G SDI, Composite, DVI, HDMI, Component, and S video Inputs.

new!

new!

Highlights: BVB17, BVB24, BVB25-OLED, BVB32

- 10 bit
- 4-4-4
- Wide Viewing Angles - 178 (degrees symbol here)
- Waveform, Vector scope, 16 channel audio meters with de-embedder and speakers
- Dual Scopes Option
- Accepts i/p/psf @23.97,24,25,29.97, 30,59.97,60
- Dual Link
- Closed Captioning
- 3D Lookup
- SMPTE 709, SMPTE 601, EBU, and D Cinema Standard
- 25" Model - Grade One OLED

new!

Highlights: PVB17, PVB24, PVB32, PVB47

- Wide Viewing Angles - 178 (degrees symbol here)
- Waveform, Vector scope, 16 channel audio meters with de-embedder and speakers
- Dual Scopes Option
- Accepts i/p/psf @23.97,24,25,29.97, 30,59.97,60
- Dual Link
- Closed Captioning
- SMPTE 709, SMPTE 601, EBU, and D Cinema Standards

new!

Highlights: LVB17, LVB23

- Accepts i/p/psf @23.97,24,25,29.97, 30,59.97,60
- 3G SDI, HDMI, DVI, Composite, Component, Y/C
- Value Model, perfect for confidence monitoring in field or studio
- Variable Color Temperature Settings
- 1920x1080
- Pixel to Pixel Mapping

*Input compliment varies by size and configuration. Please consult individual data sheets.

SE Series
The Boland SE Series Is a Full Featured Line of LCD Monitors that includes Audio Bargraph, Waveform and Vectorscope

- Wavefrom, Vectorscope, Audio Bar Graph, Peaking, Markers
- 3G/HD/SD SDI, HD HDMI+HDCP Compatible Inputs, HD VGA, Composite and Component*
- Rec 709 Primaries Most models
- 10-bit Screens / 12-bit Processing
- Multiple Aspect Ratios
- Frame Markers and Remote Controls are standard (TCP/IP, RS 232, and IR)
- LED Available in Many Different Models

SE Models
Screen Sizes Range from 15" - 72"

Twins Available in 10"

1080p 3G SDI LCD Video Monitors

- Ultra High Contrast, True Blacks
- Individually Selectable Waveform, Vectorscope, Audio Meters for over or alongside picture display
- Metering and Monitoring of up to 16 Embedded Audio Channels
- Viewing Angles 178º
- Industry Leading Backlight Dimming Brightness Control
- Very Low Latency, Response Time 6 (G-G)
- Fully Adjustable Color Temps & Gray-Scale Tracking
- All Models containing "L" have LED Backlights
- Probe Connection for Auto Calibration

SE Stand Out Features:

- Waveform and Vectorscope size & position
- Audio Bar Graph & Speaker/Phones (16 Channels)
- Peaking & Sharpness
- Markers & Aspects

Displays Above Show:
Audio Bar Graph, Waveform, Vectorscope, Peaking and more!

*Input compliment varies by size and configuration. Please consult individual data sheets.

HX Series
The Boland HX Series Features

- Full Monitoring Performance from 3G Sources (SMPTE 372 & 425)
- 3G Model Inputs are 3G/HD/SD-SDI, HD HDMI-DVI [with HDCP], HD VGA, 2x Composite & Component*
- Most Models are Rec 709
- Screens are 10-bit with 12-bit Processing (8-bit screens under 26")
- Multiple Frame Marker and Aspect Ratio Display Choices
- Features: Most Features Accessable with Direct Access Front Panel Buttons
- Full Remote Controls (TCP/IP, RS-232, and IR all standard)
- Calibrated Displays, SMPTE RP166 Dimmable Brightness, Contrast >1000:1

DVI Series
High Image Quality Monitors
for Signage and Utility (no SDI)

- 2x HD HDMI/DVI [+HDCP] Compatible Inputs, HD VGA, Composite and Component*
- Rec 709 Primaries (or Hi Color Gamut for 12" sizes)
- 10 bit Screens / 12 bit Processing (8 bit for screens up to 26")
- Multiple Aspect Ratios and Multiple Frame Markers
- Full Remotes: TCP/IP, RS-232, and IR
- HDMI and DVI Functions Fully Interchangable (Including HDCP, using adaptor plugs or cables)

HX Series

Screen Sizes Range from 15" - 72"

- 1920 x 1080 Full Definition
- Screen Brightness 100-500 cd/m^2
- Very High Contrast 1400:1
- Response Time 5 ms
- Probe Connections for Auto Calibration

DVI Models

Screen Sizes Range from 82" to 8.4"

Twins Available in 10", 9", & 8.4"

HX Stand Out Features

- 3G, SDI, SFP (fiber)
- Digital 12-bit Processing
- Full digital 8, 10-bit Displays, up to 1.06 Billion Colors
- Exact Color Gamut, Rec 709 Primaries
- Very Low Latency

Full HD 1080p LCD Video Monitors

- High & Standard Definition
- Wide Viewing Angles
- Very Bright to Control Room Dim Adjustable
- Very Fast Response Time
- Digital 12-bit Processing

- Precise Color Gamut
- Rec 709 Primaries
- Factory Pre-Calibrated
- Full Two Year Warranty
- LED Backlights on most Models

Additional Options

- Twin Rackmounts Available in Sizes: 8.4", 9", & 10"
- Stands
- Customizable

HDMI Stand Out Features:

- Dual HD HDMI/DVI [+HDCP] Compatible inputs
- Frame Markers
- Full Remote Controls (TCP/IP, 232, IR)

*Input compliment varies by size and configuration. Please consult individual data sheets.

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BROADCAST & TELEPROMPTING
d, xd, and DHD Series Standard & High Defintion Monitors

Features scan reverse for teleprompting. Boland Broadcast LCD video monitors boast support of all world-wide video formats with PC resolutions up to WUXGA, 100% Digital Processing and optional SD - SDI Digital inputs. Featuring Wide Viewing Angles and Rec 709 Color Gamut, these models deliver outstanding images. **Most of these models are also available in DayBrite.**

RACKMOUNT
HD, vp, HX, and BL Series
Available in multiple sizes and as single or twin units. Complete with 3G SDI, DVI, HDMI, Component, Composite, VGA, and or S Video inputs, these rack mounted monitors are perfect for all confidence monitoring needs. Available size: 7", 8", 9", 10", 12", 15", 17", 18",19", and 20"
- Rec 709 primaries
- 10 bit processing
- Multiple Aspect Ratios
- Safearea Frame Markers
- LED Backlights

Check out our brand new 7"x2 twin unit!

Standard Definition Models
- Available sizes: 8", 10", 12", 15", 19"
- 4:3 aspect
- Scan Reverse for Telepromting
- Standard Definition Video Resolution, 450 TVL
- Full Wide-Aperture LCD for Superior 178° View Angles
- Digital 10-bit processing, 16.7 million colors
- Accurate Color, D65 Whites

4x3
4x3: 8", 10", 12" 15", 19"

16x9
9", 15", 17", 18", 20!

BL7 SDIx2 - Affordable Rackmount 7" Twin Monitors
- 3G SDI, HDMI, YPbPr, AV
- Safearea Markers
- Multiple Color Temperatures
- Red, Green, Blue Only
- Perfect Confidence Monitoring!

xd084WVA & Twin
d084WVA & Twin
xv084 & Twin
vp084

High Definition Models
- Available sizes: 8", 10", 12", 15", 19"
- SDI Inputs
- 4:3 aspect
- Scan Reverse for Telepromting
- Wide Viewing Angles; World-Wide TV & VESA Standards
- Digital 12 bit Processing,)
- Exact Native Rec 709 (Hi Color Gamut 12")
- Factory Calibrated D65 White & Grey Scales (Non-Volatile)
- Boland's Industry-Famous Very Low Latency

7", 8", 9", and 10" available as single or twin units.

Single and Dual Rackmount Monitors
- Available in both 16x9 and 4x3 native aspect ratios
- Wide Viewing Angles H&V
- High Contrast Ratio
- Color Temperature Adjustments
- HD SDI, Composite, Component, DVI, and VGA inputs
- Optional: Scan Reverse Imaging

SDI Inputs

Camera Top Monitor

BL7 SDI - Affordable Lightweight 3G SDI monitor - 7"
- Carrying case, Hood, and Battery Plate included
- 3G SDI, HDMI, YPbPr, AV
- Peaking assist, False Color, Histogram and Exposure features
- 16x9 aspect ratio

*Input compliment varies by size and configuration. Please consult individual data sheets.

TELEPROMPTING

RACK MOUNT

HD & SD DAYBRITES
Ultra-High Bright LCD Monitors for Direct Sunlight

Boland DayBrite LCD Monitors with LED Backlights are ideal for all high ambient light conditions in challenging viewing environments. These monitors accept all worldwide video formats including PC resolutions up to WUXGA with 100% Digital Processing. Featuring excellent Viewing Angles and Color Gamut, these models deliver quality images outdoors. Rugged but lightweight with non-glare protective screens, Boland DayBrites meet your portable needs. Models dim 100:1 or more; LED Life>50,000 hours. Sizes: 47" to 8".
No Sun Shade Needed !

47", 23", 20", and 16" Widescreen DayBrite LED Monitors

- • Available in HX and DVI Series Models
- • 1920x1080 High & Standard Definition Video Monitors
- • Ultra-High Bright 1500 nts (cd/m^2), Dimming 100:1 (typical)
- • High Contrast Ratios, 750~1400:1
- • Viewing Angles 160°~178°
- • Very High Speed Response Time:2 ms
- • LED Life 50,000+ Hours
- • Very Low Latency
- • Adjustable Color Temp (includes external Probe connection)

HX20LDB

19", 15", 12" and 10" LED DayBrite LCD Monitors

- • Under/Over Scanning; H/V Scan Reverse (mirror) (DHD & d Series)
- • 19" 1280 x 1024 Hi Resolution 1250 nts, 2000:1, Wide Viewing Angle
- • 15 " 1024x768 Hi Resolution 1500 nts (cd/m^2), 300:1 Dimming
       Viewing Angle 160+°, Contrast 700:1
       High Speed Response Time, 2.3 ms
- • 12 " LED 1024x768 Hi Res Ultra-High Bright 1500 nts
       White LED B/L runs cool, ideal for battery use
       Contrast 700:1, Viewing Angles: 160°/160°
- • 10 " LED 1024x768 Hi Res Ultra-High Bright 1500 nts
       Contrast 1200:1, Viewing Angle 176°

LED

new!10" LED

DHD151DB

DHD121LDB

8.4" Premium LED DayBrite LCD Monitors

- • Rec 709 Color
- • Best Selling!
- • 3G / HD /SD /SDI
- • Frame Markers
- • Perfect for using Battery Power
- • High Resolution 1024 x 768
- • Ultra-High Bright 1500 nts (cd/m^2), 600:1 Dimming
- • High Contrast Ratio
- • Viewing Angles: 170°!
- • Lamp Life: 50,000+ Hours

new!

LED

HD84LDB-P

Custom Built Monitors
& Digital Video Walls

Built in America, Boland's custom-made models have been featured in such facilities as the Pentagon, the 911 Memorial, and the Smithsonian. Whatever the specifications call for, Boland will deliver exacting standards. Custom color, size, or extra-special technical request? No problem. Call any time to learn more

Models PSM46, PSM55

Ultra Thin Bezel Video Walls

Great for large video walls, our ultra thin bezel panels feature LED backlights (standard or high brightness), and can be configured in just about any pattern you dream up.

Sizes available are 46" and 55", both with an approximate bezel width of 2.7mm. Built -in software allows the user to scale / tile across up to 16 monitors **without an expensive third party scaler.**

Custom models made in all sizes, colors, and configurations

- • Many NVG compatible models for Rotor craft and ENG models
- • Medical, ENG, Survey, Public Safety; Boland offers many flexible input configurations
- • Standard and DayBrite
- • 12 & 28 Volt Power (9-36v)

ACCESSORIES

Boland has an array of accessories to compliment its line of LCD monitors for use in a host of contexts. Below are just a few applications that demonstrate the flexibility of Boland monitors. Full list of options are found in the price list.

RACKMOUNT EARS , PLATES, & FRAMES (up to 20")

BALL MOUNT

PEDESTAL STANDS: All Sizes

IR REMOTES

2014

boland is dependable, delivering quality built with new technology, so reach for excellence.

Partial Client List:

Broadcast Networks & Stations
ABC TV Broadcast Ops & Engr
Armed Forces Network USA
    (Europe, M. East, Asia)
All Mobile Video (Sports)
CBC Toronto
CBS Television Network
ESPN Network
Fox News, Sports, Studios
Inside NASCAR (Showtime)
KAKE TV
KCBS TV
KCRA TV
KDFW TV
KDRV TV
KERA TV
KETV TV
KGTV TV
KHSB TV
KIFI TV
KMOV TV
KMTV TV
KOMO TV
KRQE TV
KSHB TV
KTLA TV
KTTV TV
KUSA TV
KWTV TV
Korean Broadcasting System
MSNBC-TV
Mutual Bcasting System (Korea)
National Broadcasting Co.
NHK (Japan)
Television New Zealand
Turner Broadcasting System
Univision Network
WBFS TV
WFOR TV
WBNS TV
WBRC TV
WCMH TV
WCOL TV
WCVB TV

WRTV TV
WTMJ TV
WTOC TV
WUSA TV
WXYZ TV
ZDF Mainz

Business Aviation Customers
A&R Jet
Aero Services
Aeronautic Investments
Aeronautica Industrial, Spain
Aircraft Specialists
Airshow Inc.
Avionics Authority
Boeing Company
Bombardier Aerospace/Learjet
Aerial Films
Agusta Aerospace

Helicopter (news, surveilance, military)
Airborne Energy Solutions
Airborne Systems, Japan
Associated Air Center
Atlanta Police Dept
Bell Helicopters, Textron Corp
FLIR Systems
Wescam, Inc.

Industrial
Acoustical Design Group
Amerisource Bergen
Analog Devices
Applied Kinetics
Applied Materials
Applied Minds
ASC Companies
Aspect Communications
Autonomous Solutions
Bethlehem Steel Corp.
Cisco Systems, Inc.
Otis Elevator

Film Production
Actual Vision Ltd
American Society of Cinematograph
Athalys Media Belgium
Kelly's Eye, Inc.

Panavision (world wide)
Paramount Pictures
Sony Pictures
Jim Henson Productions
Adam Sandler Productions
Warner Brothers

Government, other
Bureau of Land Managment
County of Los Angeles Fire Dept
Crash Rescue (Fire Trucks)
US Department of Energy

Medical
Airway Cam Technologies
Boston Scientific

Video Production
Admiral Video
Ascent Media
ATK Services (Academy Awards)
Bank Of America

Law Enforcement
Alachua Co Sheriff
Arizona Dept Public Safety
City of Miami
City of Santa Monica
Orange Co. Sheriff, FL
Orange Co. Sheriff, CA
Alameda Co. Sheriff, CA
Los Angeles Chief Police (LAPD)
MIKAT Surveill' Systems (Athens)

National Parks & Museums
Albright Training Center
Anitech Systems
Army Corps of Engineers
Bronx Zoo
Disney Imagineering
Disney M.G.M. Attractions
Guggenheim Museum
Moscone Center
NC Natural History
Schedd Aquarium
Smithsonian Institution
(Air & Space, Natural Hist, etc)

Military
Aerlyper, Spain
Aeronautical Radio (ARINC)
Airscan Aviation Svcs (private)
Analytic Services (private)
Anteon Corporation (gov't)
Ball Aerospace
General Dynamics
GOI-MOD
Rockwell Collins
Raytheon IDS, Flt Opts
Joint Forces Staff College
United States Air Force
    Arnold AFB
United States Army
    Aberdeen Test Center
    ARNC Rucker
    US Strategic Command

Video Equipment Dealers

Major Shows
American Idol
Emmys
George Lopez
Golden Globes
Grammys
Jay Leno
Jimmy Kimmel
Rikki Lake
Rose Parade
Super Bowl
The Bachelor
The Talk
The View
Wheel of Fortune)

Major Sports & Mobile
F&F
Game Creek
MTV Supershooters
NEP
Sweetwater Digital
Touring Video
Video Equipment Rentals

| 709 | WCG | 3G | WVA | HDSDI | LED | FHD | EBU | SMPTEC | 16:9 | DB | HiCR | WUXGA |

| PiP | HDCP | TCP/IP | RS-232 | IR | 6500 | AC/DC | OB | HDMI | 10 bit | Probe | VESA | SR | DCDi |

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