



Digital Full HDTV LCD Video Monitors
2007

 **boland**

SELECTION

Quality, New Technology, World Wide Formats.

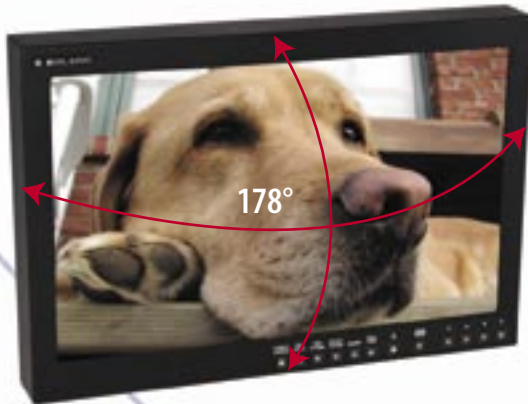
You'll see amazing images with enhanced Ultra Pixel picture quality in varying light and viewing conditions. Boland is constantly pushing the boundaries in new technology, outfitting our LCD monitors with the widest color gamut and ultra deep blacks. Red, green, and blue stability is guaranteed by the All-Digital 10-bit Processing. From the Full Resolution 42" monitors to the smallest and light-weight field monitors, you can count on Boland image precision. From Broadcast to Aviation, we also provide custom work with multiple options, timely delivery, long warranty, and friendly customer service.

• Wide-ranging Applications

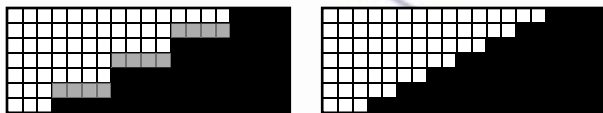
- Control Rooms
- Remote and OB Vans
- Film & TV Field Production
- ENG Vans & Helicopters
- In-flight Entertainment
- Public Safety
- Museums
- Jibs, Viewfinders & Cranes
- Lecterns, Lobbies, & Conference Rooms

• Full HD with built-in support for all video formats

- All standard HDTV, SDTV, & PC resolutions
- HD SDI, SD SDI, DVI Digital Videos (SMPTE 259/274/292/296)
- Analog Video Inputs: Composite, Y/C, YPbPr/CrCb, PCVGA (EIA, CCIR, VESA)
- PC Video Resolution Modes: EGA up to WUXGA

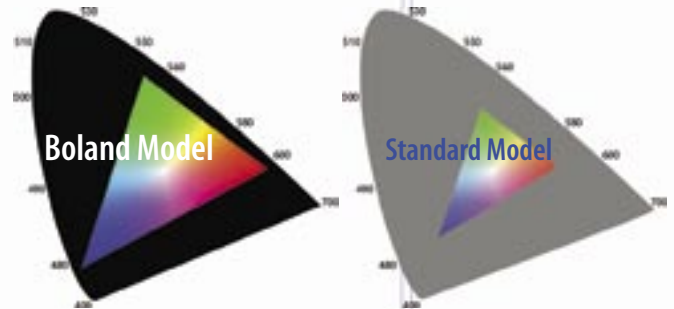


- Very Wide Viewing Angles up to 178°
- High Resolution Digital Adaptive Comb Filters
- Aspect Ratios: 16:9, 4:3, and Variable Aspect ratio Images



• Diagonal Line Compensation Process Circuit using the new Diagonal and Motion Interpolation

- Fully adjustable Scans: H&V Sizes, Positions
- Scan Reverse (H, V mirror images)
- Under/Over Scan adjustable



• Extended Color Spectrum / Wide Color Gamut

Most LCD Monitors have a span of only 40%, Boland has a span of 72 to 100% with controlled SMPTE C color temperature standard, providing deep rich colors .

- All-Digital Processing
- Low Latency Processing for lip-sync control



- Picture-in-Picture (PiP/PbP) Variable position window; inserts a video source into window or alongside a PC or HD image. Window is size and position adjustable.
- Remote Controls: InfraRed (IR) and RS-232 (bi-direx)
- Lamp Life up to 65,000 Hours
- S-Video (Y/C) Connector (4-pin Mini-DIN)
- Stereo Audio Control Options
- Native DC or AC Mains Power
- Rack, Desk stand, Wallmount, and other Mounting Options
- Many Available Options

VIEW PORT LCD Monitor Selection Guide

	Screen Resolution	Brightness (nits, cd/m ²)	Size	Feature	NEW Models Available	DHD (SDI, Analog HD, Analog NTSC/PAL SDI, DVI, VGA)	DVI (Analog HD, DVI, NTSC/PAL, VGA~WUXGA PC)	AHD (Analog HD, NTSC/PAL, VGA~WUXGA PC)	d (broadcast dual plus video PC)	dx1 (rackmount twin)	dx2 (rackmount twin)	V (broadcast video)	V x1 (video rackmounted screen)	V x2 (video twin rackmounted)	V x3 (video triple rackmounted)	V x4 (video quad rackmounted)
Full HD	1920 x 1080	550	42*	W/WVA	x	x	x		x							
Full HD	1920 x 1080	500	37*	W/WVA	x	x	x		x							
	1366 x 768	500	32*	W/WVA		x	x		x							
	1366 x 768	1150	32	W/DB		x	x		x							
	1366 x 768	500	26*	W/WVA	x	x	x		x							
Full HD	1920 x 1080	300	24*	W/WVA	x	x	x		x							
	1366 x 768	450	23*	W/WVA	x	x	x		x							
	1366 x 768	430	20*	W/WVA	x	x	x		x							
	800 x 600	1800	20	DB		x	x		x	x						
	640 x 480	450	20	WVA					x	x						
	1280 x 1024	250	19*	WVA		x	x		x	x						
	1280 x 1024	1200	17	DB		x	x		x							
	1280 x 768	400	17*	W/WVA		x	x		x	x						
	1280 x 1024	300	17	WVA					x	x		x	x			
	1024 x 768	1850	15	DB		x	x		x							
	1024 x 768	450	15	WVA		x	x		x	x		x	x			
	1024 x 768	350	15*	WVA	x	x	x		x	x		x	x			
	800 x 600	1850	12	DB		x	x		x	x						
	800 x 600	400	12			x	x		x	x		x	x			
	1024 x 768	300	10	HR		x		x	x	x	x					
	640 x 480	400	10						x	x	x	x	x	x		
	800 x 600	1400	8	DB		x		x	x							
	1024 x 768	400	8*	HR/WVA		x	x	x	x	x	x	x				
	640 x 480	450	8						x	x	x	x	x	x		
	800 x 600	2150	6.5	DB		x		x	x							
	960 (320) x 234	300	5.6									x			x	
	480 (160) x 234	300	4	LED B/L												x

Wide Screen (16:9), Wide Viewing Angle (±170~178°), DayBright, High Resolution, *Extended Color Gamut

HDTV

Superior High & Standard Definition Video Monitors

Each of our HDTV models boast a slate of features to meet the needs of the professional. From our new 24, 37, & 42" 1920 x 1080 High Resolution Widescreens to the lightweight portables, all our HDTV models have the widest color gamut with controlled SMPTE C (and adjustable) whites. New DVI inputs offer improved digital connection quality. All include frame rates of 23/24/25/29/30/59/60 i/p/sF as well as these common features:

- Digital Video Inputs: HD SDI, SD SDI (SMPTE 259, 274/292/296), and New DVI inputs, too
- Analog Video Inputs: Composite, Y/C, YPbPr/CrCb, PC VGA, (EIA, CCIR, VESA)
- PC Video Modes (AHD): EGA up to WUXGA
- Standard Definition Video Modes: NTSC/PAL/SECAM/NTSC4.43/PAL-M
- Aspect Ratios: 16:9, 4:3, and Variable Aspect Ratio Images (switchable and fully adjustable)
- R, G, B-only modes and fully adjustable video and sharpness.



DHD42W / DVI42W
DHD37W / DVI37W
DHD24W / DVI24W

new!

42", 37", 24" FULL HD! HD/SD SDI, DVI, Analog Component, Composite, PC VGA~WUXGA

- 42", 37", 24" High & Standard Definition 1920 x 1080
- Digital 10-bit processing, 16.7 million colors, 72% of NTSC 1953 Gamut
- Bright 500~550 nts (cd/m²) (high bright)
- Very High Contrast 600~800:1
- Ultra Wide Viewing 178° / 178°~176° / 176°
- Extended Color Gamut
- Very Low Latency



DHD84HRx2
AHD84HRx2



DHD84HR
AHD84HR

8.4" HDTV Premium Ultra-Fine Pitch LCD Monitors

- High & Standard Definition Video Monitors 1080/720/576/480
- Very High Contrast 400:1
- Wide Viewing 170° H & V
- Digital 10-bit processing, 16.7 million colors 72% of NTSC 1953 Gamut
- Bright 400 nts (cd/m²) (high bright)
- Fine Pitch 1024 x 768
- Tri-color Tally Lights
- Extended Color Gamut
- Very Low Latency

new!



32", 26", 23" HD/SD SDI, DVI, Analog Component, Composite, PC VGA~WUXGA

- High & Standard Definition 1366 x 768
- Digital 10-bit processing, 16.7 million colors, 72% of NTSC 1953 Gamut
- Bright 450 nts (cd/m²) (high bright)
- Very High Contrast 800:1
- Ultra Wide Viewing 178° H & V
- Extended Color Gamut
- Very Low Latency

DHD32W/ DVI32W
DHD26W/DVI26W
DHD23W/DVI23W

new!

20" & 17" HD/SD SDI, DVI, Analog Component, Component, PC VGA~WUXGA

- High & Standard Definition Video Monitors 1080/720/576/480
- Bright 450 nts (cd/m²)
- Fine Pitch 1280 x 768
- High Contrast 400:1
- Ultra Wide View 176° H & V
- Very Low Latency



DHD17W / DVI17W
DHD20W / DVI20W



DHD15 / DVI 15
DHD12 / DVI 12

15" & 12" HD/SD SDI, DVI, Analog Component, Component, PC VGA~WUXGA

- High & Standard Definition Video Monitors 1080/720/576/480
- Bright 450 nts (cd/m²)
- Fine Pitch 1024 x 768 (15"), 800 x 600 (12")
- High Contrast 500:1
- Ultra Wide View 176° /176° H & V

10.4" HD/SD SDI, AHD, Analog Component, Component, PC VGA~WUXGA

- High & Standard Definition Video Monitors 1080/720/576/480
- Bright 300 nts (cd/m²)
- Fine Pitch 1024 x 768
- High Contrast 300:1
- Wide View 120° / 105° H & V



DHD10
AHD10

SDTV FULL BROADCAST QUALITY

Ultra-Fine-Pitch & Standard LCD Video Monitors

Boland Broadcast LCD video monitors boast support of all worldwide video formats with PC resolutions up to WUXGA, 100% Digital Processing and optional SDI Digital inputs. Featuring Wide Viewing Angles and Extended Color Gamut, these models deliver outstanding images which are also available in DayBright and HDTV models (YPrPb & HD-SDI). Common features are as follows:

- Operating Modes: NTSC/PAL/SECAM & NTSC4.43 / PAL-M, and EGA up to WUXGA, all AutoDetected, all expand to fill screen.
- Standard Definition Video Modes: NTSC/PAL/SECAM & NTSC4.43/ PAL-M (autoselect)
- PC Video Modes: EGA, VGA, SVGA, XGA, SXGA, WSXGA, UXGA, WUXGA, all AutoDetected.
- Metal Cabinets & Washable, Protected Screens
- Very Low Latency Processing.

20" & 19" LCD Video Monitors

- Ultra Bright 450 nts (cm/m²) 20"; 250 nts 16.7 million colors 19"
- Very High Contrast 400:1 / 500:1
- Wide Viewing 170° ~ 176°, H & V
- Digital 10-bit processing, 16.7 million colors
- High Speed 15 ms & 12 ms for less than 1 TV field response!
- Rackmount, deskstand, wallmount
- 3-Input Video Interface: Composite, Y/C S-Video, and VGA Compatible Video (DE15HD-F)



d201c / d201cx1
d190a / d190ax1

17" & 15" Premium Video LCD Monitors

- Standard Definition Video Resolution, 450 TVL
- Digital 10-bit processing, 16.7 million colors
- Very Bright 250~450 nts (cm/m²) (high bright)
- High Contrast Ratio 500~1000:1
- Extreme Wide Viewing 178°~176° H & V
- Very High Speed Response Time 10 ms



d170b / d170bx1 / v170b / v170bx1
d150c / d150bx1 / v150b / v150bx1

12" & 10" LCD Video Monitors

- Standard Definition Video Resolution 450 TVL
(full path; electronics through the optics)
- Very Bright 400 nts (cd/m²)
- Very High Contrast 200:1 ~ 300:1
- High Speed 12 ms for less than 1 TV field response!
- 50,000+ Hours Lamp Life
- Video Modes NTSC/PAL (autoselect), Hi-Resolution Digital Comb
- 2-Input Composite Video & Y/C Video
- xd104 features Hi Res (fine pitch) screen (1024 x 768)
- Tally Lights



d121d / d121dx1 / v121d / v121dx1
d104f / xd104c / d104fx1 / d104fx2 / xd104cx1 / xd104cx2 / v104f / v104fx2



d084bWVA & Twin / xd084bWVA & Twin
v084b / xv084a / v084ax2 / xv084ax2

new!

8.4" LCD Wide Angle View Video Monitors

- Wide Viewing Angles 170° H & V
- Pixel Arrangement 640 x 480 RGB (307,200 RGB Pixels)
- Bright 330 ~ 400nts (cd/m²) (hi bright)
- High Contrast 500:1
- Hi-Resolution Digital Comb
- Color Temperature Adjustment Menu
- Multi-Input Video Interface Composite, Y/CVGA; (options: SD-SDI, YCrCb)
- Extended Color Gamut (xv, xd models)
- High Friction Tilt Mechanism
- Tally Lights



v056x3

5.6" LCD Video Monitors

- Video Modes: 525 NTSC/625 PAL (autoselect)
- Bright 300 nts (cd/m²) (hi bright)
- DC Power 9-36 volts, AC included
- Blue-Gun
- Looping Video
- Protected Screens
- High Friction Tilt
- Tally Lights



v056

4" LCD Video Monitors

- New LED Backlight
- Video Modes: 525 NTSC/625 PAL (autoselect)
- Bright 300 nts (cd/m²) (hi bright)
- DC Power 9-36 volts, AC included
- Blue-Gun
- Looping Video
- Protected Screens
- High Friction Tilt
- Tally Lights



v4x4b

**New
Long-Life
LED Backlight!**

DAYBRIGHT

High Resolution LCD Monitors

- Full Daylight
- HD/SD SDI
- HD Analog
- DVI
- SD
- VGA

Boland High Definition Daybright LCDs are ideal for all high ambient light conditions. Monitors accept all world-wide video formats including PC resolutions up to WUXGA. 100% Digital Processing and optional SDI Digital inputs (HDTV / SDTV) give years of stable and reliable operation. Featuring excellent Viewing Angles and Color Gamut, these models deliver quality images outdoors. Rugged but lightweight, Boland Daybrights meet your portable needs. Common features:

- High Definition 1080/720, i/p/sF, 23~60 Hz (autoselected)
- Standard Definition NTSC/PAL/SECAM, NTSC4.43/PAL-M
- PC Resolutions EGA~WUXGA (auto detected)
- Metal Cabinets & Washable, Protected Screens
- Extended Power Option (9-36 VDC)



DHD20DB
DVI20DB
d201aDB

32" & 20" Daybright HD/SD LCD Monitors

- Under/Over Scanning; H/V Scan Reverse (mirror), 90° Rotation
- Ultra-High Bright 1800 nits (cm/m²), Dims to 18 nits
- High Contrast Ratio 480:1
- Viewing Angle 140° /115°
- Very High Speed Response Time 7 ms, no lag processing
- Lamp Life 25,000+ Hours (full brightness)
- Very Low Latency

*All Available as
HD or SD!*



DHD65DB
AHD65DB
d065aDB

new!

6.5" Daybright HD/SD LCD Monitors

- Ultra-High Bright 2150 nits (cm/m²)
- High Contrast Ratio 450:1
- Viewing Angle 120/1000°
- Very High Speed Response Time 15 ms
- Lamp Life 25,000+ Hours at full brightness
- Direct input select



DHD84DB / AHD84DB
d084aDB

8.4" Daybright HD/SD LCD Monitors

- Ultra-High Bright 1400 nts (cm/m²), 100:1 Dimming
- High Contrast Ratio 530:1
- Viewing Angle 120/150°
- High Speed Response Time 25 ms
- Lamp Life 40,000+ Hours



DHD12DB / DVI12DB
d121dDB

12" Daybright HD/SD LCD Monitors

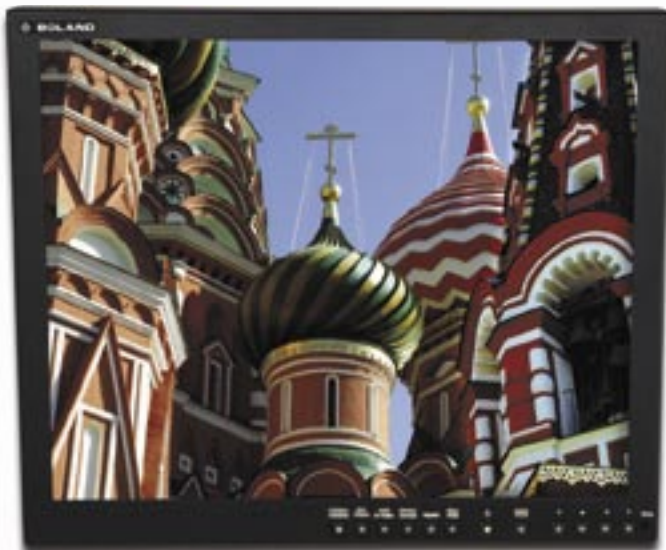
- High Bright 1850 nts (cm/m²), 100:1 Dimming
- High Contrast Ratio 450:1
- Viewing Angle 140° /120°
- Very High Speed Response Time 10 ms
- Lamp Life 40,000+ Hours



DHD15DB / DVI15DB
d151aDB

15" Daybright HD/SD LCD Monitors

- Most Popular DB Model; 450 TVL
- Ultra-High Bright 1800 nts (cm/m²), Dimming 100:1
- High Contrast Ratio 400:1
- Viewing Angle 120/110°
- High Speed Response Time 25 ms
- Lamp Life 40,000+ Hours



DHD17DB / DVI17DB / d171aDB

17" Daybright HD/SD LCD Monitors

- Ultra-High Bright 1200 nts (cm/m²), Dimming 100:1
- High Contrast Ratio 500:1
- Viewing Angle 140° /130°
- Very High Speed Response Time 8 ms



AVIATION

Superior & Standard High Definition LCD Monitors

Perfect fit for the airborne monitor applications. Lightweight, with protected screens, Boland commercial-grade units offer flexible input configurations, wide power latitude, and support for all global video formats.



xv084



d104f

Popular Aviation Models:

- Rotorcraft (ENG, Survey, Public Safety): 6.5, 8.4, 12.1, & 15.0" DayBrights.
- Jet / IFE: 6.8, 8.4, 10.4, 12, 15, 19, 20, & 32" (d, x series)
- 12~28 Volt Power (9~36)
- Custom configurations available

DHD12DB



DHD84DBx2



d201c



HD ENG



IFE

ACCESSORIES

Boland has an array of accessories that compliment it's LCD monitors for use in a host of contexts. Below are just a few applications that demonstrate the flexibility of Boland monitors.



PEDESTAL STANDS



C-STAND YOKE MOUNT



RACKMOUNT EARS, PLATES, & FRAMES



LECTERN / RECESS BRACKETS



WALL MOUNTS



RS-232 REMOTES

OPTIONS

Input Formats & Connections

Mount Hardware

Rackmount Ears, Plates & Frames

Ball Mount

Stands

Pedestal Desktop

Yoke Mount (C-Stand)

Flip-out (tepee) Tabletop

Remote Controls

RS-232

Infrared

Audio Options

Volume Control; Speakers

VESA Wall Mount Hardware

Power DC Options and Replacement

9-36 VDC Input Power

VGA / DVI Cables: Black, 75 ohm coax,

Double-shielded, Dual varieties

(Clean to 200' + @ SXGA) (HD15)



BALL MOUNT



TEPEE STAND



IR REMOTES

boland is dependable, delivering quality built with new technology and a touch of class.

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
 Fox News, Sports, Studios

KAKE TV
 KCBS TV
 KCRA TV
 KDFW TV
 KDRV TV
 KERA TV
 KETV TV
 KGTV TV
 KHSB TV
 KIFI TV
 KMOV TV
 KMTV TV
 OMO TV
 KRQE TV
 KSHB TV
 KTLA TV
 KTTV TV
 KUSA TV
 KWTW TV

Korean Broadcasting System
 MSNBC-TV
 Mutual Bcasing System (Korea)
 National Broadcasting Co.
 NHK (Japan)
 Television New Zealand
 Turner Broadcasting System
 Univision Network

WBFS TV
 WFOR TV
 WBNSTV
 WBRC TV
 WCMHTV
 WCOT TV
 WCVB TV
 WRTV TV
 WTMJ TV
 WTOG TV
 WUSA TV
 WXYZ TV

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, surveillance, 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
 Americource 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
 Warner Brothers

Government, other

Bureau of Land Management
 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)
 MKAT 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



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