

# *VIEWPORT Monitors*

Premium Active-Matrix LCD Video Screens

## **User Manual**

**Broadcast V-series:**

**8.4" Model v084a (525/625)**

**8.4" Model xv084a (525/625)**

**10.4" Model v104f (525/625)**

**12.1" Model v121c (525/625)**

**15.1" Model v150b (525/625)**

**15.1" Model v150bWVA (525/625)**



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# VIEWPORT Specifications

## VIDEO-ONLY SCREENS 8.4, 10.4", 12.1", AND 15.0"

(All models have a rackmount option.)



model v150

Models:	v084a Video Monitor ▶extra brite	xv084a Hi-Res Video Monitor ▶extra brite (also for xv084ax2 Twin)	v104f Video Monitor ▶extra brite	v121c Video Monitor ▶brite	v150b/v150bWVA Video Monitor ▶extra brite, wide angle
Active Area (Diagonal):	8.4" / 21.4 cm	8.4" / 21.4 cm	10.4" / 26.42 cm	12.1" Composite, S-Video	15.0" Composite, S-Video
Video Modes:	NTSC/PAL/SECAM (autoselect)	NTSC/PAL/SECAM (autoselect)	NTSC/PAL/SECAM (autoselect)	NTSC/PAL/SECAM (autoselect)	NTSC/PAL/SECAM (autoselect)
Scan:	525/60, 625/50 Comp & Y/C	525/60, 625/50 Comp & Y/C	525/60, 625/50 Comp & Y/C	525/60, 625/50 Comp & Y/C	525/60, 625/50 Comp & Y/C
User Controls:	Menu: Bri,Cnt,Col,Tnt...	Menu: Bri,Cnt,Col,Tnt...	Menu: Bri,Cnt,Col,Tnt...	Menu: Bri,Cnt,Col,Tnt...	Menu: Bri,Cnt,Col,Tnt...
Video Input Signals (nominal):	1.0 Vpp, 75?	1.0 Vpp, 75?	1.0 Vpp, 75?	1.0 Vpp, 75?	1.0 Vpp, 75?
Video Connectors:	BNCx2, (auto-term loop-thru) 4-pin DINx1 (Y/C S-video)	BNC (auto-term loop-thru) 4-pin DINx1 (Y/C S-video)	BNCx2, (auto-term loop-thru) 4-pin DINx1 (Y/C S-video)	BNCx2, (auto-term loop-thru) 4-pin DINx1 (Y/C S-video)	BNC, (auto-term loop-thru) 4-pin DINx1 (Y/C S-video)
Brightness, typical, 0°:	450 nts (cd/m <sup>2</sup> )	400 nts (cd/m <sup>2</sup> )	400 nts (cd/m <sup>2</sup> )	300 nts (cd/m <sup>2</sup> )	450/450 nts (cd/m <sup>2</sup> )
Contrast Ratio, 0°:	500:1 (high contrast)	400:1 (high contrast)	400:1 (high contrast)	200:1	400:1/500:1 (high contrast)
Window (Display Area):	6.728x5.047" / 171x128 mm	6.728x5.047" / 171x128 mm	8.31x6.24" / 211x159 mm	9.69 x 7.26" / 246x184 mm	11.97 x 8.89" / 304x226 mm
Protective Screen Cover:	Non-Glare, Washable	n/a	Non-Glare, Washable	Non-Glare Glass washable	Non-Glare / n/a
Light Source (standard):	2 CCFL, 40,000+ hours	4 CCFL, 40,000+ hours	2 CCFL, 40,000+ hours	2 CCFL, 50,000+ hours	4/6 CCFL, 50,000+ hours
Pixel (RGB Trio) Arrangement:	640 (1920) x 480, Stripe	1024 (30720) x 768, Stripe	640 (1920) x 480, Stripe	800 (2400) x 600, Stripe	1024 (3072) x 768
Pixel (RGB Trio) Pitch:	0.089x3 x 0.267 mm	0.0555x3 x 0.1665 mm	0.110x3 x 0.330 mm	0.308 x 0.308 mm	0.300x0.300 mm, 16.7M Colors
Viewing Angle, contrast ≥10:1 :	±55°H; +40°, -70°V	±85°H; ±85°V	±60°H; +40°, -50°V	± 55°H; +40°, -45°V	±70°H;+60°-65°V/±88°H&V
Response Time, max (t <sub>r</sub> /t <sub>f</sub> ):	25/10 ms (typ. t <sub>r</sub> /t <sub>f</sub> ) (fast)	12/13 ms (typ. t <sub>r</sub> /t <sub>f</sub> ) (fast)	20/5 ms (typ. t <sub>r</sub> /t <sub>f</sub> ) (fast)	20/35 ms	12/12 ms (high speed) (wht to blk)
Optional Remote Controls:	Infrared (IR) or RS-232	Infrared (IR) or RS-232	Infrared (IR) or RS-232	Infrared (IR) or RS-232	Infrared (IR) or RS-232
DC Power:	12 volts (10.0~15.0 V), 16 watts	12 volts (11.4~14.4 V), 16 watts	12 volts (11.4~14.4 V), 11 watts	12 volts (10.0~15.0 V), 19 watts	12 volts (10.0 ~ 15.0 V),30/36 watts
DC Connector (center +):	XLR-4 Female (1=gnd, 4=+12)	XLR-4 Female (1=gnd, 4=+12)	XLR-4 Female (1=gnd, 4=+12)	XLR-4 Female (1=gnd, 4=+12)	XLR-4 Female (1=gnd, 4=+12)
AC Power:	90-264 VAC, 50/60 Hz	90-264 VAC, 50/60 Hz	90-264 VAC, 50/60 Hz	90-264 VAC, 50/60 Hz	90-264 VAC, 50/60 Hz
AC Connector:	IEC-320 Male	IEC-320 Male	IEC-320 Male	IEC-320 Male	IEC-320 Male
Cabinet (whd, less knobs):	8.400" x 6.757" x 2.00"	8.174" x 6.757" x 2.10"	9.95 x 7.90 x 1.80"	11.3 x 9.4 x 1.7"	14.30 x 11.25 x 1.95"
Mounting:	¼-20, 10-32x4 / 4 RU	10-32x4 / 4 RU if RackMt	¼-20, 10-32x4 / 5 RU	¼-20, 10-32x4 / 6 RU	¼-20, 10-32x4 / 7 RU
Weight:	3.15 lbs / 1.43 kg (per screen)	3.15 lbs / 1.43 kg (per screen)	3.4 lbs / 1.53 kg	4.25 lbs / 1.93 kg	6.4 lbs / 2.9 kg
Temperature, Operating:	0 ~+60° C	0 ~+60° C	0 ~+65° C, 10,000 ft/3,000 m	0 ~ +50°C	0 ~ +50°C, ?10,000 ft/300 m
Temperature, Storage:	-20 ~+70° C	-20 ~+70° C	-20 ~+80° C, 50,000ft/15,000m	-20 ~ +60°C	-20 ~ +60°C, ?40,000 ft/12000m
Case Color:	Textured Semi-Gloss Black	Textured Semi-Gloss Black	Textured Semi-Gloss Black	Textured Black Semi-Gloss	Textured Black Semi-Gloss
Case Material:	Aircraft Aluminum	Aircraft Aluminum	Aircraft Aluminum	Aircraft Aluminum	Aircraft Aluminum

(Specifications are subject to change without notice.) 12.03.05

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## I description

### • overview

The **BOLAND** Combi *VIEWPORTS* are high performance LCD video displays for computer and motion video display. Incorporating Active Matrix Thin Film Transistor (*AMTFT*) drive technology, these display panels are completely self-contained for replacing CRT-type monitors. Active Matrix means no LCD lag or smear on moving video pictures. Operating in NTSC/PAL composite and Y/C video modes, the monitors

are compatible with CRTs, but may be installed anywhere, including compact, space-saving places at low power. The display quality is excellent for both natural and graphic video. The monitors come with integral non-glare glass screens, and compliment the 4" and up to 30" *VIEWPORT* family of LCD Video and Computer monitors. All offer the size, brightness and clarity necessary for extended daily use.

### • features

Compact, Mounts Anywhere  
 Light Weight  
 Rugged  
 Low Power, Instant On  
 Transportable  
 Plug & Pin-compatible to CRT displays  
 High Contrast  
 Built-in Speakers (option)



Model v150b Video Monitor

### • customer support

Boland provides a full range of support from sales through installation and use of our products. We are here to help. Our office hours are extended, in the Pacific time zone (GMT+8 in winter, +7 summer). To reach us:

**BOLAND COMMUNICATIONS**  
 (949) 465-9911, or  
 (800) 918-9090,  
 (949) 465-9944 [fax]  
 or: [techsupport@bolandcom.com](mailto:techsupport@bolandcom.com)

## 2 installation

### • supplied items

Supplied with your standard-model LCD Monitor is a desk-top 12 volt regulated power supply/power cord or mating DC plug (aviation), and this instruction manual.

**Available options** may include: 9-36 VDC power, SD/HD SDI, high brightness (1850 nts), remote Controls (RS-232, IR), VESA or rack mounts, and desk stands.

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### • handling

**A VIEWPORT display is rugged. As a precaution though, please consider the following general characteristics of AMTFT LCDs. These are not defects or malfunctions:**

Please handle the panel with care. Since the panel is made of glass, sharp blows to the screen, failure after dropping onto a hard surface, etc., are not covered by the warranty.

High voltages are present inside the cabinet for the fluorescent lighting. There are no fuses or other user-serviceable parts inside. Do not remove any screws or disassemble the cabinet to stay safe and to retain the warranty.

Use only factory-specified power supplies for powering the panel.

A wet, condensing atmosphere (dew or fog) should be avoided. If you require routine operation in these conditions, please consult the factory (optional cabinets are available).

Note the normal operating and storage temperatures in the specification. Do not place the unit in the sun, as the black cabinet absorbs much heat. Extreme temperatures, just as uncomfortable for people, will cause degraded performance

or permanent LCD damage. Extended temperature models are available. Please also take care to avoid electrostatic discharges.

When a panel is not installed, place it in its packing material or place it *face down* on a smooth table.

After several thousand hours of operation, the special internal fluorescent lamps will eventually taper in their brightness. Please consult the factory for replacement.

Over long periods of time, some changes in luminance uniformity or small dots may become visible, depending on image content.

Avoid fixed video patterns for extended periods of time. Some image retention may occur. If possible, use an interesting screen saver or black.

Please handle cables and connectors with care. Please replace worn cables with standard, locally-available parts (see power supply substitution caution).

Note that although the screen is glass, it is still somewhat sensitive to scratching. Please clean the screen with a *soft cloth slightly dampened* with water or, if necessary, Windex® or 409® household cleaners.

## • system requirements

Video Series monitors operate on DC or AC power and come with a universal AC power supply. Signal inputs are composite video signal into a BNC, or S-Video (Y/C) into a 4-pin mini-DIN (or "S") connector.

Monitors will display 525 and 625 NTSC, PAL, or SECAM standard video signals at a nominal 1.0 Vpp (terminated). Dual (loop-thru) BNC connectors with auto-

matic termination (75  $\Omega$ ) is used on the 12" and 15" models. (The "C" component of the Y/C signal is 0.7 Vpp nominal.)

Other Boland monitor models are also available for displaying PC signals, and have many significant features, such as built-in scalers, all TV standards included, scan reverse, aspect ratio adjust, digital, HDTV connections, and many more.

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## • physical mounting

When mounting the panel on a flat surface, allow clearance for any connection cords on the rear. In the corners on the backside of cabinets are 10-32 threaded inserts for accepting mounting screws. Use ½" long pan head screws, or you may use any other length 10-32 screws to accommodate mounting surface depth requirements, but the screw may not penetrate the panel cabinet by more than ¾" (0.75") *maximum*, or the monitor may be

damaged. Also, a ¼-20 threaded socket is on the bottom side.

The LCD monitor cabinets dissipates only a few watts (see *specifications*), so no special cooling or ventilation is required. The mounting location may usually be completely enclosed. But avoid any mounting situations or other nearby heat or environmental heat sources that may cause the monitor's operating location to exceed 122°F/50°C.

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## • connections (see photo, page 5)

*VIEWPORT* LCD monitors connect like CRT-type monitors. The connections are video and power:

### Power Connection

Insert the barrel or XLR plug from the power supply into the 2.5 mm jack on the back of the panel. The AC side of the power supply will accept 100-240 VAC, 50/60 Hz (universal power cord).

### Video Connections

*VIEWPORTS* have a four-pin mini-DIN jack for S-Video. Composite is input at BNC connectors. A single BNC connector is used on the 10". Loop-thru BNC connectors are used on the 12" & 15" (automatic 75 $\Omega$  termination.)





Monitor Backside, Connector Well Area, 15.1" Monitor. (Picture also shows VGA connector used on some models)

### 3 Operation

Your *VIEWPORT* Monitor's On-Screen menu provides for normal operational adjustments. These user adjustments are stored/memorized separately for Composite, and Y/C S-Video, and again separately for each in both NTSC and PAL modes.

For video operation, set the Brightness to just be able to see the **blackest** portions of the video image, the Contrast to bring the **whitest** areas of an image to just less wash-out, and Color and Tint (for NTSC) for pleasing flesh tones.








Push the menu button to bring up the menu and to step down through the list. Starting on the subsequent pages are all the menu choices and a description of each step.

The use of each button is listed on the next page.



## Controls and Connections

### Monitor Front Side:

















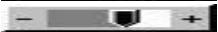

- 1  **Power On/Off**  
When power is applied, the monitor will come on. This button then turns the monitor on and off.
- 2  **Menu On/Off**  
This button is used to bring up the controls menu. It will also clear the menu from the screen, saving the new settings chosen.
- 3  **Select Down / Contrast -**  
Advance down the menu list with this button.  
Without pushing the **MENU** button first, this button is direct access (1) to reduce Contrast.
- 4  **Select Up / Contrast +**  
This is used to move up through the menu list.  
Without pushing the **MENU** button first, this button is direct access (1) to increase Contrast.
- 5  **Decrement / Input Select**  
Use to reduce (-) the amount of the highlighted item. For some items, this selects 'No' or 'Off'.  
Without pushing the **MENU** button first, this button is direct access (2) to select PC display.
- 6  **Increment (Enter) / InSelect**  
Pushing this button increases (+) the amount of the chosen item. For some types of items, the button will chose 'Yes' or 'Accept'.  
Without pushing the **MENU** button first, this button is direct access (2) to select the available Video input (either **comp** or **S-**, depending upon the other menu choice and presence of either signal).
- 7  **Panel LED**  
The status LED has four indications: Dark- No Power, Red- Start or No Signal, and Green- Normal operation.

### Monitor Back Side:

- 1 **Input Connector Well, Power**  
(Recessed wiring location for all cables)  
Place the plug from the world-wide AC power supply (included) into the DC 12V connector. Input power to the monitor from any other "12 volts" DC source within the specifications (see the last page table for details).
- 2 **Input Video BNC and Y/C Connectors**  
Attach the video cord(s) from cameras, VCRs, PC or other sources to the BNC or Y/C (S-Video) connectors.
- 3 **Optional Audio and Speaker(s)**  
Audio inputs are high impedance. On the 10.4" the two white RCA jacks are connected together; they will add two-plug stereo together for monaural. For the 12.1" and 15.1", jacks are left (white) and right (red). Inserting only a single plug will feed both speakers.
- 4 **Mounting Keyholes** (optional)  
You may hang monitors on a screw head or nail head on a wall. Do not insert the screw's head deeper than ¼" (6 mm).
- 5 **Threaded Mounting Sockets**  
The corner threaded sockets are for mounting the monitor. You may mount monitors in any orientation. The screws must not insert deeper than ¼" (6 mm). The threads are 10-32.
- 6 **¼-20 Threaded Mounting Socket**  
For flexibility in mounting, you may use this bottom-side threaded socket for locating the monitor on a tripod (like an SLR or video camera, or other CCTV mounting arm or device). Do not insert the screw head deeper than 3/8" (8 mm). Not recommended for use in vehicles.



## OSD Functions

	<p><b>Brightness and Contrast :</b></p> <p>Brightness  Increase/decrease brightness in the <b>blackest</b> areas of the picture</p> <p>Contrast  Increase/decrease brightness in the <b>whitest</b> areas of the picture</p>
	<p><b>Color Temperature :</b> 9500K / 8000K / 6500K / 5000K (8000 is the Normal setting.)</p> <p>Adjust the "warmth" of the displayed image. The higher the temperature, the "<b>bluer</b>" the image looks like. The lower the temperature, the warmer (more <b>reddish</b>) the image looks like.</p>
	<p><b>Video Adjustment :</b></p> <p>Color:  adjust video <b>color</b> level</p> <p>Tint:  adjust video <b>tint</b> level</p> <p>Sharpness:  adjust video image sharpness level</p>
	<p><b>Video System :</b> Select video system and input signals</p> <p>AUTO : automatic detection of NTSC and PAL system and SECAM system</p> <p>NTSC / NTSC 4.43 : manual select NTSC system</p> <p>PAL / PAL M : manual select PAL system</p> <p>SECAM : manual select SECAM system</p>
	<p><b>Position :</b></p> <p>Image up/down : Use ^/down to move the image vertically</p> <p>Image left/right : Use &lt;/&gt; to move the image horizontally</p>
	<p><b>Language :</b> Select OSD menu language display</p> <ol style="list-style-type: none"> <li>1. English</li> <li>2. Danish</li> <li>3. Chinese (Simplified)</li> </ol>
	<p><b>Video source :</b> Select the input video signal</p> <p>Composite Video / S-Video</p>
	<p><b>Volume :</b></p> <p></p> <p>Adjust the audio volume level (functions only if the audio option installed)</p>
	<p><b>Utilities :</b></p> <p>User Setting : User Timeout : adjust the OSD menu timeout period in steps of 5 seconds, from 5 minimum up to 50 seconds maximum (5 or 10 is Normal).</p> <p>DPMS (Desktop power management system) : Diable / Enable (Enable is Normal)</p> <p>Disable : The panel backlight always on when no video input.</p> <p>Enable : The panel backlight will turn off when no video input.</p> <p>Display Input : Disable /Enable the input source name on screen (Enable is Normal)</p> <p>Auto Source Select : Off - Disable auto source select function (video signal seeking). (High is Normal) Low - Auto source select enabled (seek) ONLY at power up. High - Auto source select ALWAYS enabled (will seek upon loss).</p> <p>Gamma : 1.0 / 1.6 / 2.2 (1.0 is Normal)</p> <p>OSD Setting : OSD Horz Position :  move the OSD menu horizontally</p> <p>OSD Vert Position :  move the OSD menu vertically</p> <p>OSD Background : Translucent / Opaque</p> <p>Direct Access #1: Define the hot key function ("&lt;" and "&gt;") for one of the following adjustments : Brightness / Contrast / Volume / Video Source* (Source is Normal)</p> <p>Direct Access #2: Define the hot key function ("^" and "down") for one of the following adjustments : Brightness / Contrast / Volume/ Video Source (Contrast is Normal)</p> <p>Load Factory Defaults : Recall factory default settings. (Emergency only)</p> <p>* By pressing the hot key, the source is in sequence of Composite Video/S-Video.</p>
	<p><b>Exit menu</b></p>

The OSD settings chosen will be stored in memory. The OSD menu can be cleared from the screen by moving the selection bar to the EXIT icon, and pressing the > button. Otherwise it will automatically clear after a few seconds (time-out period) of non-use.

# Nominal Settings v084a, xv084a, v104f, v121c, v150b, WVA 09.15.05

Icon	Parameter	NTSC Composite			NTSC S-Video			PAL/SECAM Composite				
1	Brite / Contrast	Brightness			50			50				
		Contrast	10.4" 50	12" 30	15" 50	10.4" 50	12" 30	15" 50	10.4" 50	12" 30	15" 50	
2	Color Temperature	(list)	8000			8000			8000			
3	Video Adjust	Color	40			40			40			
		Tint	0			0			0			
		Sharpness	3			3			3			
4	Video System	(list)	Auto			Auto			Auto			
5	Position	(arrow keys)	(Auto: default)			(Auto: default)			(Auto: default)			
6	Language	(list)	English			English			English			
7	Input Select	(list)	Composite Video			S-Video			Composite Video			
8	Volume (optional)	(value)	0			0			0			
	9	Utilities	User Setting	Timeout	10			10			10	
			Display Input	Enable			Enable			Enable		
			DPMS	Enable			Enable			Enable		
			Auto Source Select	High			High			High		
			Gamma	1.0			1.0			1.0		
		OSD Setting	OSD Horz Position	100			100			100		
			OSD Vert Position	100			100			100		
			Background	Translucent			Translucent			Translucent		
		Direct Access #1	(list)	Video Source			Video Source			Video Source		
		Direct Access #2	(list)	Contrast			Contrast			Contrast		
		Load Defaults	(yes/no)	<b>Don't Load</b>			<b>Don't Load</b>			<b>Don't Load</b>		
10	Exit	(yes/no)		(push ">" to exit, Menu to continue)			(push ">" to exit, Menu to continue)			(push ">" to exit, Menu to continue)		

## 4 Maintenance

A *VIEWPORT* display requires no regular/periodic maintenance.

- **Cleaning**

The standard cabinet finish is semi-gloss black paint over aircraft aluminum, or the aluminum cabinet itself is mil-spec black-dye anodized.

The front screens are frosted glass. A damp (not dripping) cleaning cloth with a small amount of spray cleaner (such as 409<sup>®</sup>, or Windex<sup>®</sup>) may be used to remove dust or fingerprints. You will not want to have enough moisture on the outside of the cabinet that liquid would run inside through the cracks.

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- **Factory Service**

After about fifty thousand hours of service (as long as 10 years, even if used often, depending on the Boland model), it may be possible to notice the screen brightness start to fall to half or less of its original level. Or, the internal fluorescent lamps may not come on at all, or stay on properly, especially when

the temperature is cold. In these cases, the full brightness may be restored by replacing the special type of internal fluorescent lamps. This requires extreme care in a very clean environment. Please contact [BOLAND COMMUNICATIONS](#) for factory replacement.

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- **Warranty**

*VIEWPORT* Video Displays are warranted for two years against defects in materials or workmanship (see the *Warranty Agreement*, page 10).

Consequential damages are not covered. Units requiring attention will

need to be returned to the factory for correction. Telephone for a tracking/RA number before shipping. Units will be returned freight pre-paid. Warranty correction is at best an inconvenience, so every reasonable effort will be made by [BOLAND](#) to smooth the process.

## **BOLAND COMMUNICATIONS WARRANTY AGREEMENT**

All products, including hardware, software, firmware, and documentation are subject to the terms below. Opening the monitor cabinet in any manner for any purpose voids the warranty.

1. **Boland Communications** (Boland) warrants the *VIEWPORT* LCD Monitors and their accessories are provided to be free from defects under normal use. Parts are covered for a period of **two (2) years** and Labor is covered for **one (1) year** from the date of delivery to you.

The Pro Series of monitors carries a separate term of **one (1) year** Parts and Labor warranty.

All monitors with a serial number less than 009001, manufactured before April 2005, carry their original **one year warranty**.

2. In the event of a repair under this warranty, Boland's sole obligation is to replace or repair, at Boland's option, any Product free of charge. Any replaced parts shall become Boland's property.
3. Warranty claims must be made during the warranty period and within seven (7) days of the observation of the defect, accompanied by any necessary evidence satisfactory to Boland. Prior to returning any Product to Boland, you **must** obtain a Return Authorization (RA) Tracking Number and receive shipping instructions from Boland. Shipments without an RA are subject to refusal at Boland dock. All Products returned to Boland contain glass and shall be adequately packed (200 lb. corrugated carton and 2" foam on all six sides of product, minimum) and shipped with freight and insurance sender-prepaid or the warranty coverage **will be void** and are subject to return unrepaired. Boland will return all repaired units in double carton and cushion packaging via pre-paid UPS Ground, Insured. Customer may provide own shipping number or arrange upgrade for faster return.
4. Except as stated above, there is NO OTHER WARRANTY, REPRESENTATION, OR CONDITION REGARDING BOLAND'S PRODUCTS, SERVICES OR PERFORMANCE, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
5. Boland is not responsible for any delays beyond its control, and where possible will advise of any such delays. Boland's entire liability for damages to you or any other party for any cause whatsoever, whether in contract or in tort, including negligence, shall not exceed the price you paid for the unit of Product that is the subject matter of the dispute. In no event will Boland be liable for any damages caused by your failure to perform your obligations, or for any loss of data, profits, savings, or any other consequential and incidental damages, even if Boland has been advised of the possibility of damages, or for any claims by you based on any third-party claim.