



NXD/T-1700VG 17" Modero® VG Series Touch Panels

The 17" Modero VG Series Touch Panel is the ideal solution for control from entry ways, foyers, doorways, podiums and other flush mount locations. When it comes to screen size and capability, nothing compares to the largest touch panel display in the Modero family. While its crowning achievement is a full 17 inches of available touch screen real estate, the ultra-wide user interface comfortably displays multiple video windows while navigating other on-screen control functions simultaneously.



Sleep/Setup Access Button

FIG. 1 1700VG Touch Panel

ATTENTION!

Verify you are using the latest NetLinx Master and Modero touch panel firmware (available from www.amx.com). Verify the TPDesign4 program being used is **Version 2.6** or higher, and download the latest G4 Support Files from www.amx.com.

Modero 1700VG Multimedia Touch Panels		
With Video Kit		
NXD-1700VG (FG2256-61V)	17" Modero VG Series Wall/Flush Mount Touch Panel (Supports Composite Video Input)	
NXT-1700VG (FG2257-61V)	17" Modero VG Series Table Top Touch Panel (Supports Composite Video Input)	
With RGB Kit		
NXD-1700VG (FG2256-61RGB)	17" Modero VG Series Wall/Flush Mount Touch Panel (Supports RGB/Component Video Input)	
NXT-1700VG (FG2257-61RGB)	17" Modero VG Series Table Top Touch Panel (Supports RGB/Component Video Input)	

Specifications

1700VG Specific	1700VG Specifications	
Dimensions (HWD):	NXD-1700VG (with faceplate): 14.44" x 18.09" x 3.31" (36.68 cm x 45.95 cm x 8.41 cm) NXT-1700VG (Fully raised): 13.29" x 17.84" x 12.44" (35.31 cm x 45.31 cm x 31.60 cm) NXT-1700VG (Fully lowered): 6.23" x 17.84" x 12.44" (15.82 cm x 45.31 cm x 31.60 cm) CB-TP17 (conduit/wallbox): 13.55" x 17.07" x 3.49" (34.43 cm x 43.38 cm x 8.85 cm) MB-TP17 (VESA mounting box): 14.44" x 18.09" x 3.48" (36.68 cm x 45.95 cm x 8.84 cm)	
Power:	Constant current draw: 4.5 A @ 12 VDC (stand-alone) Startup current draw: 6.5 A @ 12 VDC (stand-alone)	
Minimum power supply required:	PSN6.5 Power Supply (FG423-41) using accessories can increase the power draw requirements	
Memory:	256 MB on-board memory	
Compactflash:	2GB or greater (upgradeable to 4GB - see Other AMX Equipment). Note: AMX may increase Compactflash size at any time in response to market availability.	
Weight:	NXD-1700VG: 18.20 lbs (8.26 kg) NXT-1700VG: 22.00 lbs (9.98 kg)	
LCD Parameters:	Aspect Ratio: 16 x 9 Brightness: 450 cd/m2 Channel transparency: 8-bit Alpha channel transparency Contrast ratio: 600:1 Display colors: 16 million colors (24-bit color depth) Dot/pixel pitch: 0.289 mm Screen resolution (HV): 1280 x 768 pixels Video formats: NTSC, PAL, and SECAM (shown within variable-size video windows)	
Active Screen Area:	• 14.59" x 8.75" (37.06cm x 22.23cm)	
Viewing Angles:	Vertical: + 85° (up from center) and - 85° (down from center)	

1700VG Specifications (Cont.)		
Supported Audio Sample Rates:	• 48000Hz, 44100Hz, 32000Hz, 24000Hz, 22050Hz, 16000Hz, 12000Hz, 11025Hz, and 8000Hz.	
Certifications:	FCC Part 15 Class B, CE, and EN 60950	
Supported Transport Protocols:	RTP (MPEG-2/MPEG-4 Transport Stream) UDP (MPEG-2 Transport Stream)	
Supported Audio Codecs:	 Advanced Audio Coding (AAC) MPEG Audio Level 2 (MP2) MPEG Audio Level 3 (MP3) 	
Supported Video Codecs:	MPEG-2 MPEG-4	
Front Panel Components:	Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness Motion Sensor (PIR): Proximity Infrared Detector to wake the panel when panel is approached Front Setup Access Button: Pushbutton (grey) used to either put the panel into a "sleep" or "wake" state Microphone: Used for intercom applications Speakers: Stereo output with a frequency response of 450 Hz - 7 KHz	
Rear Panel Components:	RGB Connector: Made available only by using an NXA-RGB interface card installed within the touch panel. Used with Component/RGB signals Audio/Video Connector: RJ-45 connector for communication of differential audio/video signals Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication PWR Connector: 2-pin 3.5 mm mini-Phoenix connector Stereo Output Connector: Stereo output through a 3.5mm mini-jack USB Connector: Two Type A USB ports Mini-USB Connector: 5-pin Mini-USB connector	
Operating / Storage Environments:	 Operating Temperature: 10° C (50° F) to 40° C (104° F) Operating Humidity: 20% to 85% RH Storage Temperature: -20° C (-4° F) to 60° C (140° F) Storage Humidity: 5% to 85% RH 	
Included Accessories:	 Installation Kit for 12" and 17" NXD panels (KA2251-01): - 2-pin mini-Phoenix connector (41-5025) Four Drywall clips (62-5924-05) and #6 - sheet metal screws One CAT5 Suppression Ferrites (04-0014) Three Phillips-head screws (#4-20 x 0.250 Black) Installation Kit for 15" and 17" NXT panels (KA2251-04): - 2-pin mini-Phoenix connector (41-5025) One CAT5 Suppression Ferrites (04-0014) Three Phillips-head screws (#4-20 x 0.250 Black) (80-0114-08) Included within the RGB Kit: - Modero VG Touch Panel (NXD/NXT-1200/1500/1700VG) NXA-AVB/RGB Breakout Box (FG2254-11) NXA-RGB internal RGB/VGA Interface Card (FG2260) NXA-RGBCBL, 15-pin to 5X BNC RGB Breakout cable (FG2250-80) NXA-MTC/RGB Modero 10' foot Table Top Cable (with RGB connector) (CA2250-70) Included within the Video Kit: - Modero VG Touch Panel (NXD/NXT-1200/1500/1700VG) Modero 10' foot Table Top Cable (CA2250-50) NXA-AVB/ETHERNET Breakout Box (FG2254-10) 	
Other AMX Equipment:	 CB-TP17 Conduit/Wallbox (FG034-10) CC-USB (Type A) to Mini-B 5-Wire programming cable (FG10-5965) Kensington Lock Bracket (FG2259-10) (optional only with NXTs) MAX-CSE MAX Video Encoder (FG2178-70) MB-TP17 Universal VESA Mounting Box (FG033-50) NXA-AVB/ETHERNET Breakout Box (FG2254-10) NXA-BASE/B (FG2255) NXA-MB/RGB Breakout Box (FG2254-11) NXA-BASE/B (FG2255) NXA-MTC/RGB Modero 10' foot Table Top Cable (with RGB connector) (CA2250-70). This cable is not wall-rated for NXD models. NXA-PCIB0211G Wireless Card (FG2255-04) NXA-PCIB0211G Wireless Card (FG2255-04) NXA-ROBKIT RGB upgrade kit for Composite Video touch panels (FG2255-11): NXA-AVB/RGB Breakout Box (FG2254-11) NXA-MTC/RGB Modero 10' foot Table Top Cable (with RGB connector) (CA2250-70) NXA-RCB internal RGB/VGA Interface Card (FG2260) NXA-RCB internal RGB/VGA Interface Card (FG2250-80) NXT Table Top replacement I/O plate (with RGB connector opening) (62-2250-59) NXD WallMount replacement adhesive overlay for existing I/O plate (53-2250-03) Note: The NXT replacement I/O plate is a single piece which is meant to be swapped-out with the pre-existing plate shipped with Composite Video panels. On NXD panels, the RGB connector opening is pre-drilled into the I/O plate but can only be accessed by replacing the adhesive cover and maintaining the existing overlay. When upgrading NXD panels with this kit, don't replace the NXD I/O plate, only the adhesive cover. NXA-RGBCBL, 15-pin to 5X BNC RGB Breakout cable (FG2250-80) NXT-RGP (FG2250-10) NXT-RGP (FG2250-50) PSN6.5 Power Supply (12 VDC) (FG423-41) Upgrade Compactflash (pre-programmed with firmware): NXA-CFTP4G, 4GB Compactflash Upgrade (FG2116-08) 	

Panel Connectors

FIG. 2 shows the connectors located on the 1700VG Modero Multimedia touch panels.

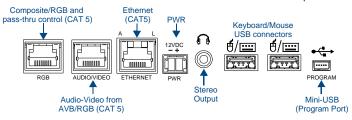


FIG. 2 Connector layout on the 1700VG Touch Panels

NXA-AVB/RGB Breakout Box

FIG. 3 shows the front and rear connectors on the NXA-AVB/RGB breakout box. This breakout box can be mounted on either a horizontal flat surface or into an equipment rack (using an optional AC-RK Rack Kit)

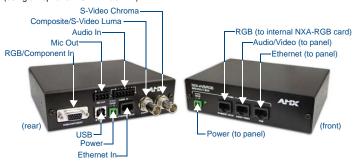


FIG. 3 Connector layouts on the NXA-AVB/RGB Breakout Box

Wiring the NXA-AVB/RGB Connectors and Cables

The inputs and outputs on the breakout box are separated into front and rear connectors. The rear connectors are used to input external signals. The front connectors are used to communicate signals between the NXA-AVB/RGB and a target Modero panel. FIG. 4 provides a layout of the wiring connections on both sides of the breakout box.

Note: Power should be applied to the NXA-AVB/RGB only after all connections have been secured onto both the breakout box and the target panel.

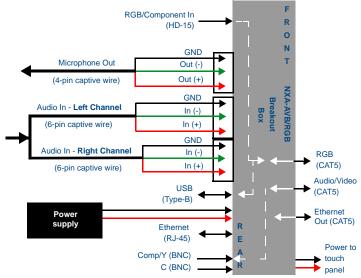


FIG. 4 NXA-AVB/RGB Breakout Box connector wiring diagram

Use the NXA-MTC/RGB cable to provide both communication and 10/100 network connectivity between the target panel, NXA-AVB/RGB, NetLinx Master, and the network The RJ-45 connector is used to route the signals connected to the RGB / Component input port on the rear of the AVB/RGB Breakout Box to the VG-Series Modero panel Standard CAT5 cable can be used for this connection with short cable runs under 50 feet

For cable runs over 50 feet (15.24 m), AMX recommends using the Belden Brilliance VideoTwist 7987. This Belden cable is not CAT5 compliant, but is designed to control skew between the red, green, and blue video signals. Therefore, for longer cable runs, the video quality will be much higher using the Belden VideoTwist 7987 cable versus standard CAT5 (or other Ethernet compliant cables).

Wiring for Unbalanced Audio

Use FIG. 5 to configure an unbalanced audio connection.

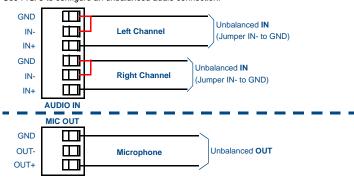


FIG. 5 Wiring the rear AUDIO IN and MIC OUT for use with Unbalanced Audio

Wiring for Balanced Audio

Use FIG. 6 to configure a balanced audio connection.



FIG. 6 Wiring the rear AUDIO IN and MIC OUT for use with Balanced Audio

Modero Setup and System Connection

- Carefully remove the panel from the shipping box, peel the protective plastic cover from the LCD and apply power to the panel.
- From below the LCD, press the grey Front Setup Access button for 6 seconds 2. (passing-over the Setup page) to access the Calibration setup page and follow the on-screen instructions.
- 3. Press the grey Firmware Setup Access button for 3 seconds to open the Setup page and touch the on-screen Protected Setup button.
- 4. Enter the panel password into the keypad. Factory default is 1988.
- 5. Press the Device Number field to open the on-screen Device Number keypad and enter a value for the panel (default is 10001).
- 6. Press Done when finished and press the on-screen Reboot button to cycle power to
- Repeat step 3 to access the Protected Setup page and touch the System Settings button to open the System Settings page (FIG. 7).

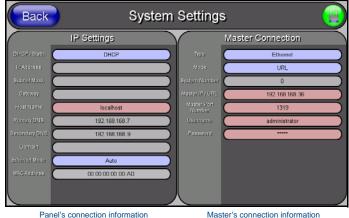


FIG. 7 Sample System Settings page

Master's connection information

- Toggle the Type field to Ethernet and enter both the System Number and IP Address of the target Master.
- Enter a valid Username and/or Password (if the target Master is secured).
- Press the **Back** button and then press the on-screen **Reboot** button to save the 10. changes and cycle power.

Additional Documentation

For more detailed installation, configuration, programming, file transfer, and operating instructions, refer to the VG-Series Modero Touch Panels Instruction Manual available online at www.amx.com.

