5000 Series Video Matrixes

The 5000 Series Video Matrixes provide video switching coordinated with lane selection in a 4000/5000 Series Audio System. Images picked up by drive-in lane cameras are displayed on teller console monitors and the images from teller console cameras are displayed on customer monitors while the teller is in two-way voice contact with a customer. During idle times, console monitors display a choice of a wide-angle driveway camera or a rotation of available lane and driveway cameras.

Lanes that are OFF or ON HOLD display Auxiliary video input, such as a videotape, video server, or solid-state video sign. If no auxiliary video input is present, the customer's own camera image (viewback) is displayed.

<table>
<tr><td colspan="4">Video Matrix Applications</td></tr>
<tr><td><i>Model</i></td><td><i>Consoles</i></td><td><i>Lanes</i></td><td><i>Use with Audio Matrix</i></td></tr>
<tr><td>5005-4</td><td>3</td><td>4</td><td>5002-4</td></tr>
<tr><td>5005-8</td><td>6</td><td>8</td><td>5002-8</td></tr>
<tr><td>5005-12</td><td>6</td><td>12</td><td>5002-12</td></tr>
<tr><td>5006</td><td>2</td><td>2</td><td>(audio built-in)</td></tr>
</table>

Feature Switch Settings			
No.	*Function*	*UP (OFF)*	*DOWN (ON)*
1	Idle Console View	Driveway Only	All Cameras
2	Aux Video	Normal	Static
3	Not Used		
4	Lane Shift	Normal	Shifted
5	Not Used		

Installation

1. Complete the audio portion of the 5000 Series intercom installation as described in the audio matrix instructions; calibrate the audio levels for all lanes and test all functions before starting the video installation.

In the following instructions, refer to the hookup diagram on the following page.

2. Remove power from the 5002 audio matrix. Mount the video matrix near the audio matrix. Connect the short RJ-45 cable supplied with the video matrix between the video matrix and the audio matrix (n/a for 5006 audio/video matrix).

3. Connect the console, camera and monitor for each teller position to the same numbered ports on the matrixes. For example, console #1 is connected to CONSOLE 1 on the audio matrix, so connect its camera and monitor to the CONSOLE 1 ports on the video matrix.

    Connect cameras and monitors to the video matrixes using 75-ohm coaxial cable with solid copper center conductor and BNC connectors. To minimize console monitor picture roll when switching, synchronize the lane cameras with each other as instructed by the camera manufacturer. Generally, you must use the Line Lock Camera Mode and wire all camera 24-volt AC inputs in-phase. Power all the cameras from the same 120-volt circuit if possible, and wire the 24-volts the same on every lane camera. Test synchronization by switching from lane to lane at one of the console monitors; the picture should not roll if the 24-volt wiring is correct. Slight vertical jumping can usually be adjusted out using the Line Sync controls on the cameras. Note: DC powered cameras lack the line-sync feature, as do some 24 VAC cameras.

4. Connect a wide-angle driveway camera to the video matrix if you desire a wide shot of the drive-in area to be displayed on idle console monitors. If a driveway camera is not connected, idle consoles will display a rotation of all available individual lane cameras. If you have a driveway camera and want it to be displayed in rotation along with the lane cameras, turn on Feature Switch 1 on the video matrix. Turn the switch off to display only the driveway camera.

5. Set the camera termination switch (labeled TERM) on the video matrix for each lane camera and the driveway camera to the ON position if the video stops there. If the video is t-tapped on to some other device, such as a DVR, set the termination switch OFF for that camera. In this case the termination must occur at the DVR. (Consult the DVR literature for instructions). Failure to set the termination switches properly will affect both video quality and the ability of the video matrix to lock in on a camera when that particular lane is selected by the teller.

6. If you want to display auxiliary video on unselected lanes, connect a VCR, DVR, video sign unit, or other video source to the Auxiliary Video input on the Video Matrix. Set Video Feature Switch 2 ON if auxiliary video is *static*, that is, if it does not move or change at least once every 5 seconds. Connect the audio output of the Auxiliary source, if so equipped, to the Auxiliary Audio port on the 5002 Audio Matrix. Two jacks are provided for stereo sources; use either one for monaural sources. Set Audio Feature Switch 5 (on the audio matrix), Noise Abate Mode, ON if you only want auxiliary audio to be played after the call button is pressed or when the customer is on hold.
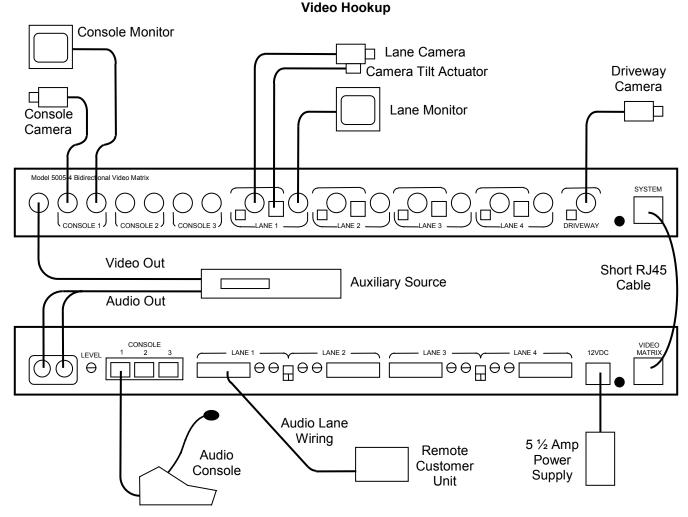
7. In 5-lane installations with a deal drawer on Lane 1, you may use a 5005-4 Video Matrix with the 5002-8 Audio Matrix. In that case, set 5005-4 Feature Switch 4, Lane Shift, ON to reassign video lane ports 1-4 to Lanes 2-5, then connect Lane 2 video to 5005 port 1, Lane 3 video to 5005 port 2, etc.

8. If the lane cameras are provided with 4150 Camera Tilt Actuators, connect the Tilt port of each Video Matrix camera position to its respective Tilt Actuator. See the 4150 instructions for details.

9. Reapply power to the audio matrix. Start the Auxiliary source and adjust all cameras. Test the video at each console by selecting lanes in turn. If picture roll is noted, synchronize the lane cameras as described in Step 3 above. Test the video at each lane by having an assistant view the lane monitor while you select the lane from each console. Putting the lane on HOLD or deselecting it displays the auxiliary video source.

Video Operation

When a lane is selected (steady green lamp) the customer is seen on the console monitor and the teller is seen by the customer. When the console is idle (no green lamps), or on HOLD from a particular teller console (blinking green lamp), the wide-angle driveway camera or a rotation of the lane cameras is displayed on the teller video monitor.

In two-way video systems with an auxiliary video source, when a lane is waiting for service or on hold, promotional audio/video is presented to the customer. When a lane is idle (lamp is dark), the promotional video plays with or without audio, depending on how the audio system was set up (Audio Feature Switch 5, Noise Abate). Always use the HOLD key to temporarily suspend customer voice contact during a transaction to assure that the audio track is presented during idle time.

In systems equipped with camera tilt, hold the console CAMERA key down and press the ▲ or ▼ keys to adjust the angle of the lane camera for the best view.

Video Hookup