1. INTRODUCTION

The Legrand Combination LCD/Camera Distribution Module (P/N CM1048) distributes audio and video signals from up to four (4) camera sources to up to four display locations. When combined with a CM1010 LCD Module, it supports up to eight display locations.

NOTE: The CM1048 is shipped with a Double-Bay Module Mounting Bracket (P/N 364819-01).

NOTE: The CM1048 is powered by one PW1060 24VDC, 60W Power Supply (available separately).

NOTE: Legacy On-Q cameras (P/N F2299, F2287, F2284 and F2286) must be connected to a Camera Module (P/N CM1011) which is then connected to the CM1048 (see Figure 2). Damage may occur if Legacy cameras are connected directly to CM1048 camera input jacks. CM5xxx series cameras may be connected directly to the CM1048 camera input RJ45 jacks.

2. DESCRIPTION

A. FEATURES

The Legrand CM1048 Combination LCD/Camera Distribution Module features:

- One-wire camera installation for CM5xxx series cameras – 24VDC power, video and audio share one Cat 5 cable to each of four (4) CM5xxx 24VDC cameras (RJ45 Camera In jacks)
- Provides four (4) RCA Video In jacks and four (4) input triggers (on the rear) to support IC5003-xx Selective Call Video Door applications
- The four (4) RCA Video In jacks and four (4) additional RCA Audio In jacks can be optionally employed to support distribution of signals from legacy camera systems or other video sources
- Firmware provides user controlled camera display sequencing (left to right, right to left, 1-30 second sequence rate)
- Provides four (4) RJ45 Out jacks for connection to up to four (4) HA50xx-xx LCD Consoles/HA5201-xx TVDIs, or two (2) HA6001 Integration Modules.
- Supports expansion to additional display devices with four (4) Audio/Video RCA Output jacks. Use of these jacks with a CM1010 LCD Module expands display port capability to up to eight displays.

B. BASIC OPERATION

The CM1048 Combination LCD/Camera Distribution Module is typically used to perform one of two possible functions:

- As an A/V switching matrix master controller for basic camera display applications (see Figure 2).
  - The CM1048 Module will discover ports and addresses of all connected devices (i.e. CM5xxx Cameras, or legacy cameras via the CM1011 and HA50xx-xx LCD Consoles/HA5201-xx TVDIs)
  - The CM1048 Module will make any Camera input image available to any output display device, for selected viewing or as part of a sequenced display.
  - The CM1048 Module will respond to triggers from devices such as IC5003-xx Selective Call Video Door units, to turn on the HA50xx-xx LCD Console to automatically show who is at the door when the doorbell button is pressed.
  - TheCM1048 Module will retain its last selected camera/display operation in the event of a power failure, so that when power is reapplied, operation may continue uninterrupted.

- As an A/V switching matrix slave controller for Integrated Systems (Unity) Display Applications (see Figure 3).
  - The CM1048 Module will automatically relinquish operational control to the master HA6001 Integration Module, providing status and event requests from all attached devices.
Figure 2 – Camera Display Application
Figure 3 – Unity Display Applications
3. INSTALLATION

A. WIRING

1. Each CM5xxx 24VDC Camera or HA50xx-xx LCD Console/HA5201-xx TVDI requires a single Cat 5 cable run from their associated location to the CM1048 Combination LCD/Camera Module which is typically installed in a structured wiring enclosure.

2. Terminate the Cat 5e line from each device using the T568A wiring standard shown in Figure 4.

B. FINALIZE CONNECTIONS

1. Connect the RJ-45 plug at the HA50xx-xx LCD/HA5201-xx TVDI or CM5xxx Camera locations to the devices according to their included instructions.

2. At the enclosure, insert the RJ-45 plugs from the CM5xxx Cameras into RJ-45 jacks labeled “FROM CM5XXX CAMERAS” (1-4) on the CM1048 Combination LCD/Camera Distribution Module.

3. Insert the RJ-45 plugs from the HA50xx-xx LCD Consoles/HA5201-xxTVDI into RJ-45 jacks labeled “DISPLAY / IM” (1 – 4) on the CM1048 Combination LCD/Camera Distribution Module.

4. If the RCA Video/Audio In jacks are used to connect to a CM1011 Camera Module, use appropriate length RCA cables to connect from the CM1011 Camera Module to the CM1048 Combination LCD/Camera Module in the enclosure.

5. If the RCA Video/Audio Out jacks are used to expand the number of output display devices supported, use appropriate length RCA cables to connect the CM1048 Combination LCD/Camera Distribution Module to the CM1010 LCD Module.

NOTE: When used with a Unity System to deliver video sources to the HA6001 Integration Module/s, the LCD Console RJ45 jacks on the CM1010 may be used for connection to the HA6001 Integration Module/s with Cat 5 cables (see Figure 3).

NOTE: All AC powered devices in a Unity system should be powered up at the same time (i.e. use a common power strip for the individual AC adapters).

C. TRIGGER CONNECTIONS

1. When utilizing IC5003-xx Selective Call Video Door Units as Camera Input devices, the IC5001 Selective Call Module has trigger outputs on the rear that may be connected to the trigger inputs on the rear of the CM1048 Combination LCD/Camera Distribution Module to enable automatic power up and selection of an HA50xx-xx LCD Display when someone pushes the Doorbell Button on an IC5003-xx Video Door Unit. The connection point for each trigger signal is shown in Figure 5.