

301 Fulling Mill Rd. Suite G  
 Middletown, PA 17057  
 Phone (800) 321-2343 / Fax (717) 702-2546  
 www.onqlegrand.com

## 1. INTRODUCTION

The Legrand Ball Camera (P/N CM5002-xx) is a "Ball" style Auto Day/Night color camera designed in a Studio style and designed to be mounted in a single gang electrical box or low voltage bracket. It is connected to the associated Camera Module in the enclosure with a single Category 5 cable. The Camera is shipped with the necessary hardware for ceiling or wall mounting as shown in **Figure 1**, and is available in White, Light Almond, or Brown, each color attached to a Titanium mounting plate, when wall-mounted.

**NOTE: Camera feeds consist of video, and optionally, audio if the homeowner chooses to purchase the microphone kit (P/N CM1026) for the Ball camera.**

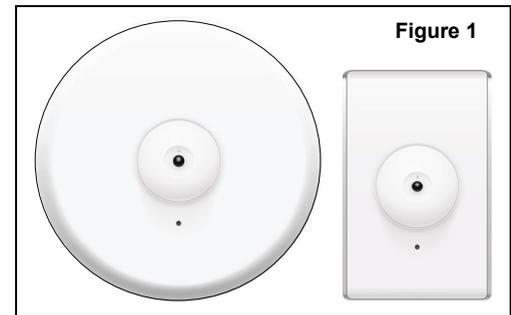


Figure 1

## 2. DESCRIPTION

### A. FEATURES

The Legrand Ball Camera features include:

- One-wire installation — power, video and audio share one Category 5 cable to camera
- Includes both wall and ceiling mounting hardware
- Designed for both indoor and outdoor use
- Automatic color by day / b&w in low light conditions
- Designed to match Selective Call and 7" LCD Display aesthetics
- Optional microphone for audio monitoring

### B. SPECIFICATIONS

Image Device: 1/3" Sony Super HAD CCD

Horizontal Resolution: 420 TV Lines

Total Number of Pixels: 512 (H) x 492 (V)

Minimum Illumination: .5 Lux

Lens Size: 3.7mm pin hole style

Operating Temperature : -10°C - +50°C

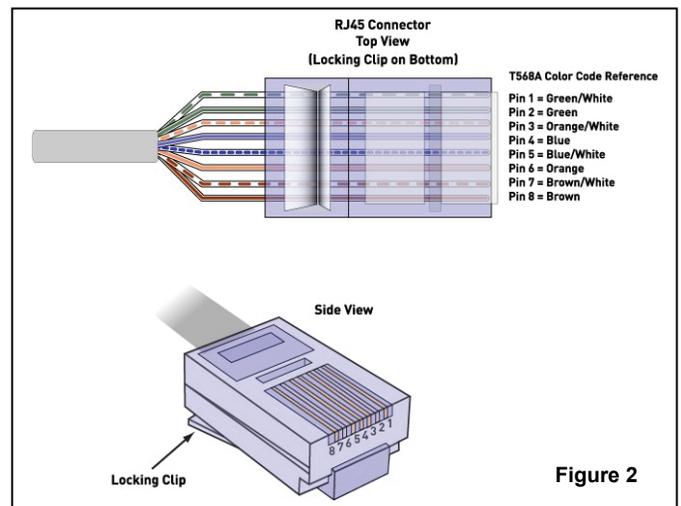


Figure 2

## 3. INSTALLATION

### A. WIRING

1. Each Camera requires a single Category 5 cable run from the camera location to the Camera Module which is typically installed in a structured wiring enclosure.
2. Terminate the Category 5 cable at each end with an RJ45 plug following the T568A wiring standard shown in **Figure 2**.

### B. ADJUSTMENT AND CONNECTIONS

1. Run the Category 5 cable from the enclosure terminated with an RJ-45 plug (see **Figure 3**) through the supplied gasket and connect to the RJ45 jack on the rear of the Camera. The other end of the cable will be connected to the Camera Module in the enclosure in step 5.
2. As shown in **Figure 3**, place the supplied outdoor gasket against the back box (if applicable) and attach the camera assembly to the back box with two supplied screws.

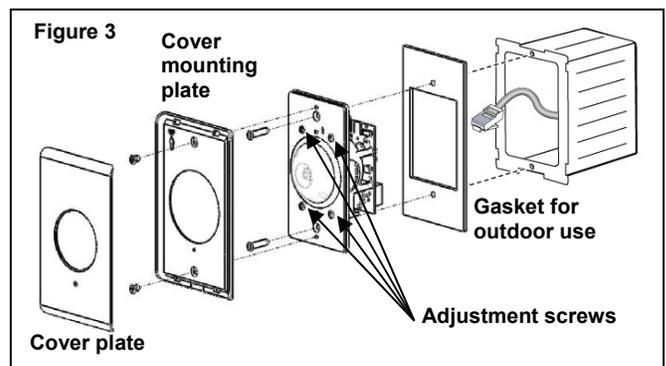


Figure 3

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- There are also four screws on the camera assembly that can be loosened to allow the camera ball to be rotated up to 90 degrees and tilted up to 30 degrees. Once the desired mounting direction is obtained, tighten those four screws slowly in an "X" pattern until they are all snug and that position will be maintained.

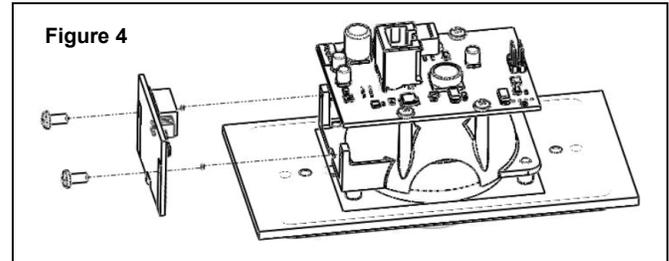
**NOTE: These four screws must be tightened to insure a weather tight seal in outdoor applications.**

- The wall or ceiling cover mounting plate is then attached to the camera assembly with two additional screws provided. The wall or ceiling cover plate is then snapped into place.

**NOTE: If audio monitoring is planned, before performing Steps 1 and 2, attach the optional microphone PC board to the rear of the camera assembly as shown in Figure 4. The microphone board is attached via a multi-pin header and with two supplied screws.**

**NOTE: Insure the microphone sound hole in the camera assembly, mounting plate and cover plate all line up for proper sound detection.**

- At the enclosure, connect the Category 5 cable from the camera terminated with an RJ-45 plug into one of the RJ-45 jacks located on the 4 Port Camera Module (see Figure 5).
- The 4 Port Camera Module directs the video signal to it's corresponding Video RCA Output Jack. If the camera is fitted with the optional microphone PC board, the module directs the audio signal is to it's corresponding Audio RCA Output Jack (directly above its video output jack).
- If both video and audio are to be monitored at an LCD Panel Display, connect the Audio / Video RCA Output jacks on the camera module to their corresponding Audio / Video RCA Input jacks on the LCD Display Module.
- The signal(s) from each set of output jacks can also be sent to a modulator for viewing camera feeds on a television, or to the On-Q IP Video Server for viewing over the internet or home network.
- The video only feeds from each camera can also be sequenced when using a modulator by using the Video Sequence RCA Jack on the camera module as the output to the modulator.
- Apply power to the 4 Port Camera Module and verify system functionality.



## 4. APPLICATION EXAMPLE

### A. MONITORING CAMERAS

Figure 5 shows a two-camera system (both configured with the optional microphone PC board).

- Up to 4 camera feeds can be monitored from the same LCD Panel Display using the camera selection buttons on the panel display.
- Feeds (video/audio) are sent from each camera, via a single Category 5 cable, to the RJ-45 input jacks on the 4 Port Camera Module. From there, audio and video from the feeds are separated and made available at their corresponding RCA Output jacks.
- These jacks are jumpered to corresponding RCA **Input** jacks on the LCD Display Module, which converts and combines the signals to the format required for viewing on an LCD Panel Display.
- Up to 4 combined signals are delivered to each display (up to 4) via a single Category 5 cable from the LCD Display Module.

**NOTE: Although the Camera Module contains a combined sequencing video only output port, the LCD Panel Display itself is able to support sequenced viewing of any of its up to four inputs (again, video only).**

