



## Camera Lowering System CDP-HD16



Camera Lowering Systems has been delivering high-quality lowering systems to the ITS market for over 8 years. Our 2<sup>nd</sup> generation design provides several advantages which offer superior performance and easier installation, at reasonable prices. Please take a moment to review some of the key features of the CDP-HD16 product.

### **Conductivity, Strength and Corrosion Resistance**

The CLS HD-16 connector system uses gold plated-nickel plated-copper 12ga. pins. Copper pins provide the highest conductivity of electrical signals, an important feature in any connector system to prevent signal degradation of video or data. The copper pins are then plated with nickel to make them strong so that they will not bend. The pins are then gold plated to prevent oxidation and corrosion. Should the lower connector be subjected to moisture during the lowering and raising process (ie: lowering in the rain), the gold plating will ensure that the pins will not corrode once resealed with the top connector.

### **Weather Resistance**

The CLS HD-16 system offers redundant weather resistance to moisture, thermal changes and other elements.

The mating portions of the connector system are protected from weather elements by a spring-loaded mating mechanism, with app. 36 lbs. of spring-loaded force, providing a tight contact that prevents moisture or contaminant intrusion, and prevents signal loss due to vibrations common due to wind and vehicular traffic.

The rear portions of the connector system (where the composite cable enters the system), is also water and weather resistant. The actual connector system is composed of a connector and back-cap that is then potted and sealed with a thermo-setting, heat and cold resistant sealant. This sealant provides a tough, waterproof rubber seal formulated to withstand extreme temperatures cycling and severe weather conditions. The result is an entirely sealed system of high quality materials that is durable and does not break, nor is it adversely affected by temperature.

Finally, in the raised and locked position, the entire connector system assembly is housed inside of a stainless steel, cylindrical housing. A neoprene seal is located on the top of the junction box which rises into the cylindrical housing below the connectors, swiping and conforming to the shape of the housing, providing a watertight seal.

### **Round Lowering Arm with locking keys**

The CLS Lowering Device utilizes a round lowering device arm, which can be locked into place to prevent movement after installation. In addition to providing less wind resistance than square arms, the round arm allows the lowering system to be rotated in the event that the pole is not plumb. The system can also be adjusted for tilt and can be installed in multiple positions around the vertical axis to provide headway for other devices which may be mounted on the pole, such as detection devices.

### **Camera Junction Box**

The CLS Camera Junction box provides an easy access, spacious area for interconnecting the lower connector to the camera cabling. The junction box can be opened by three, vibration resistant 1/4 turn captive screws. A safety latch in the interior prevents the junction box from swinging open, allowing the technician to safely open the junction box. The interior of the box provides ample room for splices, lightning detection devices, etc. with full access to the entire interior.

The top half of the junction box has an overlapping lip which helps divert water from the lower half of the junction box. The two halves are sealed with a neoprene gasket when locked together.

Finally, the junction box provides a standard 1.5" NPT Receptacle, allowing any dome camera or other device to be mounted without specialized mounting adapters.

### **Compatibility**

The CLS HD-16 lowering device has been used successfully with virtually all major pole manufacturers – Valmont, Union Metal, Value Structures, Northwest Signal, Stresscrete, Accord, etc. The lowering device is independent of the pole, and all major pole manufacturers are experienced in providing poles for the CLS lowering device – allowing the customer to select any pole from any source for the project. CLS will gladly provide a pole when requested, but this is not mandatory.

### **Composite Cable Assembly**

One of the major advantages of the CLS HD-16 lowering device is the fact that the product ships with Composite CCTV cable pre-wired and sealed into the top connector. The length of the cable provided is determined at time of order. This feature allows for easy installation and no pole top splicing is required, providing the highest level of signal quality and no points of failure due to improper splicing.

### **Installations**

The CLS product is extremely durable, and history over the past 8 years has proven this case. There have been over 800 CLS camera lowering devices installed in the past 3 years, and well over 1000 in the past 8 years.