

PANASONIC WJ-PC200/WJ-PC200E Coaxial - LAN Converter Receiver side unit  
PANASONIC WJ-PR201/WJ-PR201E Coaxial - LAN Converter Camera side unit  
PANASONIC WJ-PR204/WJ-PR204E Coaxial - LAN Converter Camera side unit

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## **TECHNICAL SPECIFICATIONS**

### **DIVISION 28 – ELECTRONIC SAFETY AND SECURITY**

#### **28 20 00 ELECTRONIC SURVEILLANCE**

#### **28 23 00 VIDEO SURVEILLANCE**

#### **28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS**

*This specification is intended for use by the design/construction professional and any user of Panasonic Security products to assist in developing project specifications for security and video surveillance systems.*

*Specifier Notes: This guide specification incorporates CSI MasterFormat™ 2004 Edition Numbers and Titles.*

*Notes in Italics, such as this one, are explanatory and intended to guide the design professional/specifier and user in the proper selection and use of materials. This specification should be modified where necessary to accommodate individual project conditions.*

## **PART 1 GENERAL**

### **1.01 SUMMARY**

### **1.02 WARRANTY**

- A. Provide manufacturer's standard warranty.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURERS**

- A.** Panasonic System Networks Company
- B.** Provide Video Surveillance Camera from single source manufacturer.

### **2.2 PANASONIC WJ-PC200 / WJ-PC200E, WJ-PR201 / WJ-PR201E, WJ-PR204 / WJ-PR204E Coaxial - LAN Converter**

#### **A. GENERAL CHARACTERISTICS**

1. The Coaxial-LAN Converter shall be configured the camera side and the receiver side.
2. The Coaxial-LAN Converter shall be compliant with PoE standards and contain a power supplying device.
3. Then Coaxial-LAN Converter shall be used at the distance of 500m (1,640 feet) with 5C-2V or RG-6/U coaxial cable with PoE power supply to camera.
4. The Coaxial-LAN Converter shall be used at the distance of up to 2,000m (6,560 feet) with external power supply.
5. The Coaxial-LAN Converter shall be capable of transmission speed of 35 Mbps or over, when using TCP.
6. The Coaxial-LAN Converter shall be capable of transmission speed of 45 Mbps or over, when using UDP.
7. *[WJ-PR204]*  
*The Coaxial-LAN Converter shall connect up to 4 network cameras on a single receiver side.*

#### **B. PERFORMANCE**

1. Number of connected camera
  - a. WJ-PR204 Up to 4 cameras
  - b. WJ-PR201 1 camera
2. Maximum number of Devices  
128 units in 1 segment
3. Transmission Speed
  - a. UDP 45 Mbps or higher
  - b. TCP 35 Mbps or higher
4. Maximum Transmission Distance of a Coaxial Cable
  - a. Without PoE 2.0 km (6, 540 feet, when using WJ-PR201)
  - b. With PoE 500 m (1,640 feet, when using a Panasonic network camera)  
300 m (984 feet, when using a Class0 standard network camera)
  - c. With PoE+ 300 m (984 feet, when using a Panasonic network camera)  
200 m (656 feet, when using a Class4 standard network camera)

#### **C. Coaxial INTERFACE**

1. Frequency Range 2 MHz - 2.8 MHz

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|-----------------------|---|
| 2. Data Transfer Mode | Wavelet OFDM  |
| 3. Access Method      | CSMA / CA   |
| 4. Error Correction   | Reed-Solomon Code + Convolutional Code (Viterbi decoding) |

#### **D. NETWORK**

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|-------------------|--|
| 1. Standard       | IEEE802.3 / IEEE802.3u                       |
| 2. MDI / MDI-X    | Cross / Straight cable automatic recognition |
| 3. Number of port | 1 (RJ45 connector)                           |
| 4. Protocols      | TCP/IP, UDP                                  |
| 5. Access Method  | CSMA / CD                                    |

#### **E. ELECTRICAL**

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|----------------------|--|
| 1. Power Source      |  |
| a. WJ-PC200          | via Receiver unit                          |
| b. WJ-PR201/WJ-PR204 | DC57V, AC 24V, PoE (Class 0)               |
| 2. Power Consumption |  |
| a. WJ-PR201          | Approx. 40W (DC 57V), Approx. 12.95W (PoE) |
| b. WJ-PR204          | Approx. 64W (DC 57V), Approx. 12.95W (PoE) |

#### **F. MECHANICAL**

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|--------------------------|---|
| 1. Dimensions (D x H)    |   |
| a. WJ-PC200              | 76 mm x 76 mm x 36 mm ( 3 x 3 x 1-7/16 inches)<br>(Excluding BNC connector cover)         |
| b. WJ-PR201/WJ-PR204     | 105 mm x 44 mm x 98 mm (4-5/32 x 1-3/4 x 6-1/2 inches)<br>(Excluding BNC connector cover) |
| 2. Weight                |   |
| a. WJ-PC200              | Approx. 110 g (0.24 lbs.)   |
| b. WJ-PR201              | Approx. 250 g (0.55 lbs)  |
| c. WJ-PR204              | Approx. 270 g (0.6 lbs)   |
| 3. Construction material |   |
| a. WJ-PC200              | PC/ABS resin  |
| 4. Finish                |   |
| a. WJ-PC200              | Sail white  |
| b. WJ-PR201/WJ-PR204     | Silver  |

#### **G. ENVIRONMENTAL**

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|--------------------------|------------------------------------|
| 1. Operating Temperature |                                    |
| a. WJ-PC200              | -10 °C ~ +50 °C (+14 °F ~ 122 °F)  |
| b. WJ-PR201/WJ-PR204     | 0 °C ~ +50 °C (+32 °F ~ 122 °F)    |
| 2. Operating Humidity    | 10 % ~ 90 % (without condensation) |