# CP4
## 7" Multi-function Control Panel

www.vipro.com.tw

CP4 is a Multi-functional Control Panel used for bus intelligent dispatch system. Integrated with 18 buttons and 7" large screen display, CP4 can access Mobile DVR GUI for system configuration and check the video in QUAD view or full-screen from each camera. Incorporating SMS and voice broadcast features, CP4 can realize the functions of speaking inside/outside of the vehicle, IP connection and making calls. When the driver reverses the bus, it automatically switches from normal recording to the reversing live view. It is widely applied to domestic and overseas bus systems for its easy installation, powerful features and convenient operation.
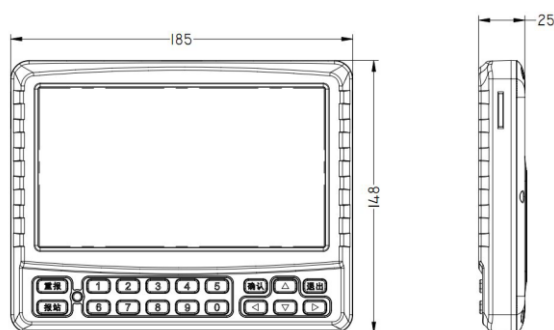
## Key Features

- 7 inches touch screen display
- Support MDVR diagnosis and operation
- Built-in speakers
- Built-in RFID module to sign in/out
- Resolution 800x480
- Station announcement (manually and automatically)

## Dimensions (unit: mm)

## Bracket Installation (3 brackets for selection)

For flat console      For Curved Console      For Hanging

## Technical Specifications

| Product series | Model | CP4 (7" Multi-functon Control Panel) |
|---|---|---|
| Item | Parameter | Peformance Index |
| Screen | Sceen Type | LCD screen |
| | Touch Type | 4 wire resistor type |
| | Size | 7 inches |
| | Resolution | 800x480 |
| | Luminance | 400cd/m2 |
| | Aspect Ratio | 16:9 |
| | Contrast Ratio | 20.83402778 (In suitable brightness condition, the higher contrast, the richer color levels) |
| | Response Time | 10/15(Tr/Td) ms |
| | Viewing Angle | L/R: 70/70 U/D: 50/70 (Typ.) (CR dot 10) |
| | Max. Display Color Number | 262K/16.7M(6bit/6bit+Dithering) |
| | Back-light Type | Whilte LED |
| | Button & Screen Distribution | Combined |
| Material | Panel material | 70% PC + 30% ABS Engineering plastics |
| | Button material | Silicone |
| Built-in Module | RFID Wipe Card Module | 13.56 MHZ for driver to sign in and sign off. |
| | Speaker | Speaker(16Ω, 2W)x2 |
| Interface | MDVR Interface | Connects to ViPRO MDVR |
| | CAM Interface | Yellow 4PIN aviation-din connector, connects to reversing camera |
| | MIC Interface | Connects to the driver megaphone |
| | Sensor Interface | Yellow hanging line, reversing signal detection port, high level effective. To monitor control for reversing. |
| Button | Function Buttons | Restate/ Station announcer/ Arrow Keys/ Confirmation/ Exit |
| | Number Buttons | 0-9 |
| Installation | Tile Installation | Refer to mounting bracket |
| | Bracket Installation | Three brackets with hood |
| Dimension | L x W x H | 185 x 128 x 34.9mm / 7.28" x 5.03" x 1.37" |
| Operation Paramter | Operating Voltage | 12V |
| | Operating Current | 200mA |
| | Total Power Consumption | 2.4W |
| Environment | Ingress Protection | IP53 |
| | Operating Temperature | -20℃~+70℃ / -4°F~158°F |
| | Relative Humidity | 8%~90% |

| Pin Illustration | Connector | Function | Definition |
|---|---|---|---|
| 10Pin aviation-din male Black<br>4Pin aviation-din male Yellow<br>Big 5559-4Pin male Black plastic injection<br>Yellow UL1007 20AWG | MDVR | Black 10PIN aviation-din male connector connects to ViPRO MDVR. | 19—10 VIDEO<br>20—9 GND<br>2—1 +12V 24AWG<br>4—2 GND 24AWG<br>4 TXD<br>13—3 RXD<br>15—5 AUDIO+<br>6 AUDIO-<br>7 MIC+<br>10—14 8 MIC- |
| | CAM | Yellow 4PIN aviation-din connector connects to reversing camera. | 1.Power+<br>2.GND<br>3.Audio signal<br>4.Vido signal |
| | MIC | Connects to driver microphone. | 1 GND<br>2 MIC+<br>3 MIC-<br>4 MIC_SW_IN |
| | SENSOR | Yellow hanging line, reversing signal detection port, high level effective. For reversing control. | Hanging line<br>SENSOR |

1