

## PROHDMI720CD C-mount HDMI CMOS Camera(2)

### PROHDMI720CD's Basic Characteristic

- Through standard HDMI interface to stream the video to displayer or HDTV;
- Aptina CMOS sensor;
- Easy connecting to other equipment on the production line with the C-mount optical interface;
- High-resolution and high frame rate, perfect color reproduction, highly integrated and compact, low failure rate and stable performance;
- 1280 × 720 (720P) resolutions to match the current high-definition displayer on the market;
- PROHDMI720CD embedded MicroView based on the Qt platform. The camera characteristic can be controlled by MicroView through the mouse. The other basic processing and choosing can also be realized by the MicroView;
- PROHDMI720CD can meet various applications and can be widely used in industrial inspection, education and research, materials analysis, precision measurement, medical analyses etc.



Photos of PROHDMI720CD

**PROHDMI720CD Datasheet(2)**

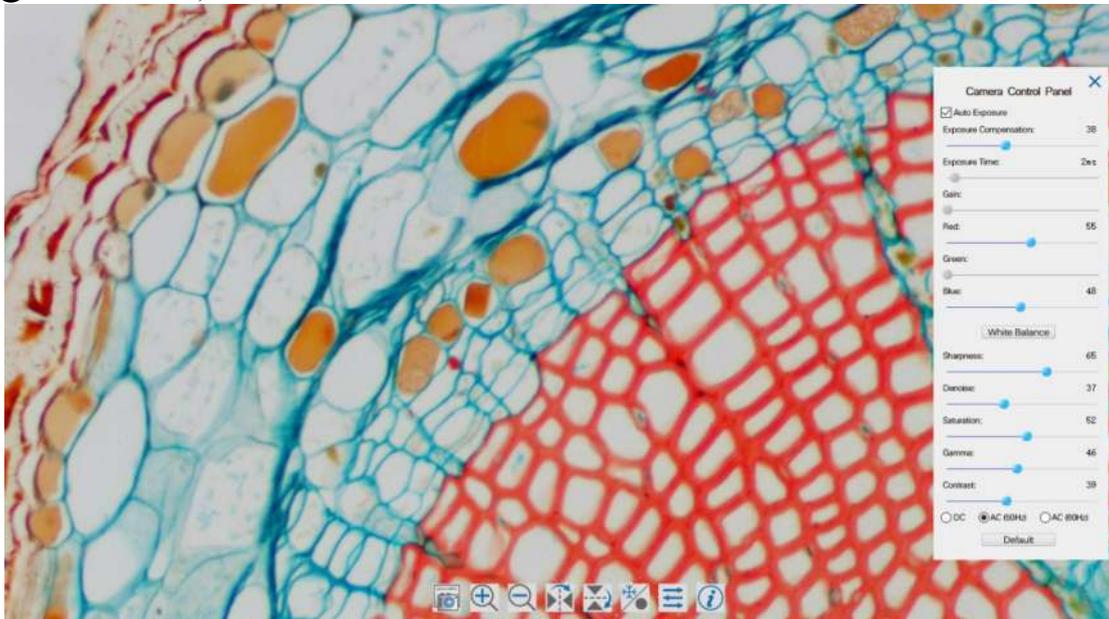
| Order Code                                   | Sensor & Size(mm)  | Pixel( $\mu$ m) | G Responsivity<br>Dynamic range<br>SNRmax                                 | FPS/Resolution                                  | Binning | Exposure(ms)  |
|--|--|-----------------|---|---|---------|---------------|
| <b>PROHDMI720CD</b>                          | 720P/2M/IMX322(C)<br>1/2. 8"(5.78x3.02)  | 2.8 x2.8        | 510mv with 1/30s<br>(G Sensitivity)<br>0.15mv with 1/30s<br>(Dark Signal) | 30@1280x720<br>(HDMI)<br>1920x1080<br>(Capture) | 1x1     | 0.06ms~1900ms |
| <b>Interface &amp; Button Functions</b>      |  |                 |   |   |         |               |
| <b>Photos of PROHDMI720CD</b>                |  |                 |   |   |         |               |
| <b>Camera Interface</b>                      |  |                 |   |   |         |               |
| <b>HDMI</b>                                  | HDMI Output Port   |                 |   |   |         |               |
| <b>USB</b>                                   | USB Mouse for MicroView Control  |                 |   |   |         |               |
| <b>DC12V</b>                                 | Power Input Slot   |                 |   |   |         |               |
| <b>SD</b>                                    | SD Card Slot   |                 |   |   |         |               |
| <b>Overall Dimensions</b>                    |  |                 |   |   |         |               |
| <b>Width x Depth x Height</b>                | 50 mm (1.97") x 50 mm (1.97") x 61mm (2.4")  |                 |   |   |         |               |
| <b>Shipping Weight</b>                       | 0.47kg (0.55 lbs)  |                 |   |   |         |               |
| <b>Operating Environment</b>                 |  |                 |   |   |         |               |
| <b>Operating Temperature(in Centidegree)</b> | -10~ 50  |                 |   |   |         |               |
| <b>Storage Temperature(in Centidegree)</b>   | -20~ 60  |                 |   |   |         |               |
| <b>Operating Humidity</b>                    | 30~80%RH   |                 |   |   |         |               |
| <b>Storage Humidity</b>                      | 10~60%RH   |                 |   |   |         |               |
| <b>Power Supply</b>                          | DC 5V/1A Adapter   |                 |   |   |         |               |
| <b>Optional Accessories</b>                  |  |                 |   |   |         |               |
| <b>Lens</b>                                  | C-mount Lens   |                 |   |   |         |               |
| <b>Cable</b>                                 | HDMI Cable   |                 |   |   |         |               |
| <b>Memory Card</b>                           | SD Card  |                 |   |   |         |               |
| <b>Mouse</b>                                 | USB mouse/USB Wireless Mouse   |                 |   |   |         |               |

## Hardware Interface and MicroView UI Description

The PROHDMI720CD light indicator flashes about 15s after the power on. The camera will load MicroView, and then the system begins to work. Auto exposure and white balance are the default state now.



- HDMI: The HDMI cable connected to the HDMI diaplayer;
- USB: USB mouse;
- DC 12V: Power in 12V/1A;
- LED: The blue LED indicator;
- SD: SD card;



The GUI of the embedded camera control panel of MicroView in PROHDMI720CD

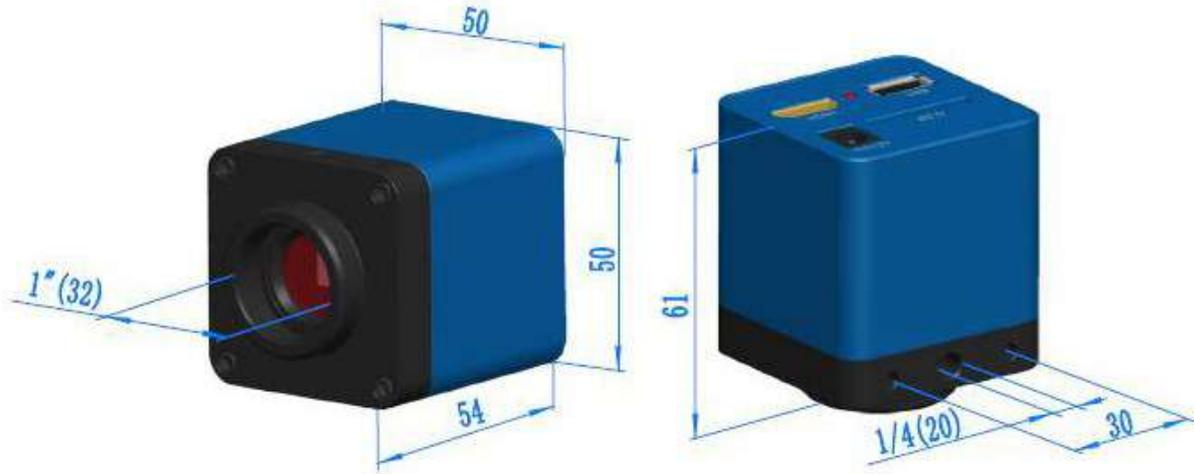


MicroView toolbar for PROHDMI720CD

Move mouse to the bottom of the HDMI displayer, the bottom toolbar will be available. The function of each toolbar buttons are described as follows:

- 1: Image Capture
- 2: Digital Zoom In
- 3: Digital Zoom Out
- 4: Horizontal Flip
- 5: Vertical Flip
- 6: Video Freez /Cancel Video Freeze
- 7: Display/Hide the Camera Control Panel
- 8: Display the MicroView Version Information

## Dimension of PROHDMI720CD



Dimension of PROHDMI720CD Series Camera

# Packing Information for PROHDMI720CD



Packing Information for PROHDMI720CD

| <b>Standard Packing List</b>  |   |   |
|---|---|---|
| <b>A</b>  | Gift box : L:17.5cm W:17.5cm H:8.5cm (1pcs, 0.85kg/ box)  |   |
| <b>B</b>  | PROHDMI720CD  |   |
| <b>C</b>  | Power Adapter: Input: AC 100~240V 50Hz/60Hz, Output: DC 12V 1A<br><b>American standard:</b> Model: GS12U12-P11 12W/12V/1A: UL/CUL/BSMI/CB/FCC<br>EMI Standard:EN55022,EN61204-3, EN61000-3-2,-3, FCC Part 152 class B, BSMI CNS14338<br>EMS Standard:EN61000-4-2,3,4,5,6,8,11,EN61204-3,Class A Light Industry Standard<br><b>European standard:</b> Model:GS12E12-P11 12W/12V/1A; TUV(GS)/CB/CE/ROHS<br>EMI Standard:EN55022,EN61204-3, EN61000-3-2,-3, FCC Part 152 class B, BSMI CNS14338<br>EMS Standard:EN61000-4-2,3,4,5,6,8,11,EN61204-3,Class A Light Industry Standard |   |
| <b>D</b>  | HDMI Cable  |   |
| <b>E</b>  | USB mouse/USB Wireless Mouse  |   |
| <b>Optional Accessory</b>   |   |   |
| <b>F</b>  | Adjustable lens adapter   | C-Mount to Dia.23.2mm eyepiece tube<br>(Please choose 1 of them for your microscope)<br>108001/AMA037<br>108002/AMA050<br>108003/AMA075 |
|   |   | C-Mount to Dia.31.75mm eyepiece tube<br>(Please choose 1 of them for your telescope)<br>108008/ATA037<br>108009/ATA050<br>108010/ATA075 |
| <b>G</b>  | Fixed lens adapter  | C-Mount to Dia.23.2mm eyepiece tube<br>(Please choose 1 of them for your microscope)<br>108005/FMA037<br>108006/FMA050<br>108007/FMA075 |
|   |   | C-Mount to Dia.31.75mm eyepiece tube<br>(Please choose 1 of them for your telescope)<br>108011/FTA037<br>108012/FTA050<br>108013/FTA075 |
| <b>Note: For F and G optional items, please specify your camera type(C-mount, microscope camera or telescope camera), Micaps engineer will help you to determine the right microscope or telescope camera adapter for your application;</b> |   |   |
| <b>H</b>  | 108015(Dia.23.2mm to 30.0mm ring)/Adapter rings for 30mm eyepiece tube  |   |
| <b>I</b>  | 108016(Dia.23.2mm to 30.5mm ring)/ Adapter rings for 30.5mm eyepiece tube   |   |
| <b>J</b>  | Calibration kit   | 106011/TS-M1(X=0.01mm/100Div.);<br>106012/TS-M2(X,Y=0.01mm/100Div.);<br>106013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)                  |
| <b>K</b>  | SD card(4G or 8G)   |   |

## Extension of PROHDMI720CD with Microscope or Telescope Adapter

| Extension                       | Picture  |  |
|---------------------------------|--|--|
| <p><b>C-mount Camera</b></p>    |  <p>Machine vision; Medical imaging;<br/>Semiconductor equipment; Test instruments;<br/>Document scanners; 2D barcode readers;<br/>Web camera and security video;<br/>Microscope imaging;</p> |  |
| <p><b>Microscope Camera</b></p> |  <p>PROHDMI720CD+AMAXXX(23.2mm Adapter)</p>  <p>PROHDMI720CD+FMAXXX(23.2mm Adapter)</p>                     |  |
| <p><b>Telescope Camera:</b></p> |  <p>PROHDMI720CD+ATAXXX(31.75mm Adapter)</p>  <p>PROHDMI720CD+FTAXXX(31.75mm Adapter)</p>                 |  |