Unit: ± 0.5 mm

## Feature

- Mini size.
- Outstanding quality.
- VGA image pixel.

Global Shutter

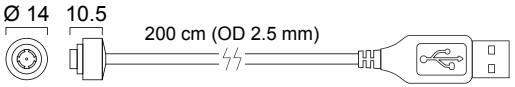
NEW PRODUCT ANNOUNCEMENT
Product appearance may be changed.
Final product appearance will be updated on datasheet.

**B661A14R** No Lens

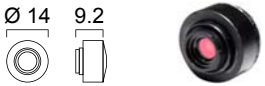

**BL661A07** No Lens


**661A14R**

▲ TD-B661A14R-78




**B661A14R-72** (72°)




## Specification

| Model No. | B661A14R | BL661A07 |
|---|---|---|
| Dimensions (mm) | Ø 14 | 7.3 x 19 |
| Orientation | Front View | Side View |
| Camera Type | Board Type | |
| Video Format | Video Format | |
| Image Sensor | 1/2.7" Color CMOS Camera Module | |
| Resolution | 1920 x 1080 @ 30 fps | |
| Pixel Size (um) | 3.0 x 3.0 | |
| Image Area (mm) | 5.76 x 3.24 | |
| Sensitivity (Lux.Sec) | 3.1 V | |
| Dynamic Range | 71.4 dB | |
| S/N Ratio | 38 dB | |
| Scan Mode | Progressive | |
| Shutter | Global | |
| Lens | Please Check Model Information Table | |
| View Angle | Please Check Model Information Table | |
| Focus Distance (mm) | Infinity | |
| LED | N/A (Optional) | |
| Storage Temp. | -30 to 60 Degree C | |
| Working Temp. | -10 to 60 Degree C | |
| Interface | USB 2.0 | |
| Power Supply | DC 5 V | |
| Power Current | TBD mA | |
| Microphone | N/A | |
| Operation System | Win XP, Win Vista, Win 7, Win 8, Win 10<br>Linux, MAC OSX | |

* Working temperature means the camera device, not environment temperature.

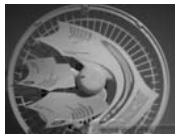
### Global Shutter

Means that all pixels of the array are exposed simultaneously.

**Advantage**
- No Distortion of straight lines with fast-moving subjects
- No limit on flash sync speed

**Disadvantage**
- More noise levels
- Lower frame rates
- Lower dynamic range

### Rolling Shutter



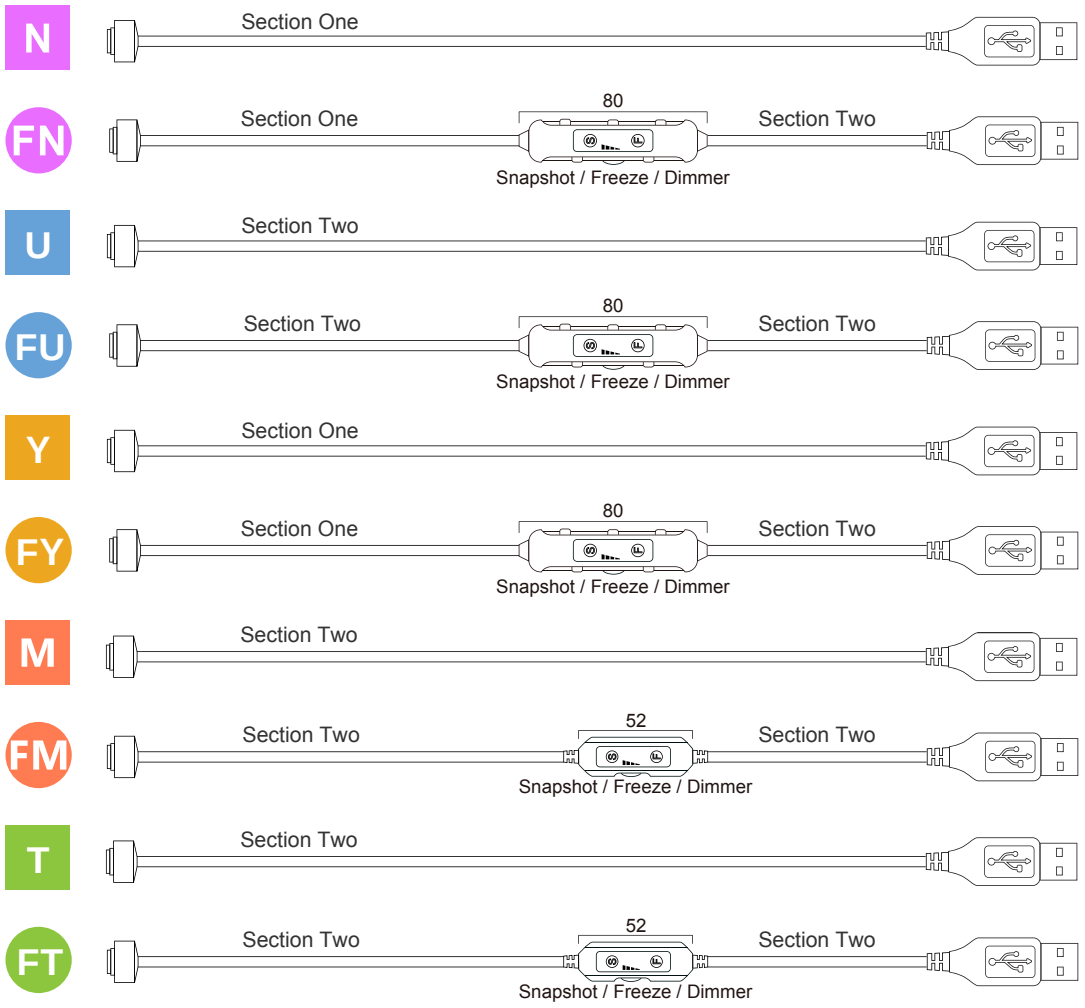
Means that adjacent rows of the array are exposed at slightly different times as the readout 'waves' sweep through each half of the sensor.

**Advantage**
- Lower noise levels
- Higher frame rates
- Higher dynamic range

**Disadvantage**
- Artifacts wit fast-moving subjects
- Limited flash sync speeds

Unit: ± 0.5 mm

**CABLE** Please check cable information for Section One and Section Two.




**Section One** (Max. 15 Pin)

| OD (cm) | Length (cm) | Series |
|---|---|---|
| 1.9 AWG#36 EN-15C | 10~80 | Y FY M FM |
| 2.8 AWG#32 EN-15C | 10~130 | |
| 3.1 AWG#36 EN-17C | 10~300 | |
| 3.8 AWG#30 EN-15C | 10~350 | |

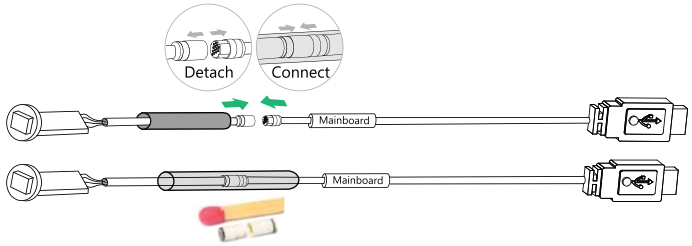
**Section Two** (Max. 7 Pin)

| OD (cm) | Length (cm) | Series |
|---|---|---|
| 0.35 Enameled Wires | 10~150 | T FT U FU N FN |
| 0.9 AWG#42 EN-9C | 10~200 | |
| 1.4 AWG#28 EN-4C | 10~1000 | |
| 1.4 AWG#30 EN-4C | 10~600 | |
| 1.6 AWG#28 EN-4C | 10~1000 | |
| 1.7 AWG#36 EN-9C | 10~200 | |
| 2.8 AWG#30 EN-7C | 10~400 | |
| 3.6 AWG#28 EN-7C | 10~1000 | |
| 3.6 AWG#28 EN-11C | 10~250 | Y FY |
| 5.0 AWG#24 EN-9C | 10~1500 | T FT N FN |
| 6.2 AWG#28 EN-11C | 10~200 | Y FY |

## Detachable Nano Connectors (Customize Option)

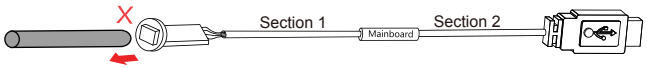
Specifically designed to overcome the big size of connector and camera head.

**With detachable Nano connectors**
A bigger size tube can go through the thin cable from halfway.




Nano 13~15 pin
(Section 1)

**Without detachable Nano connectors**
Camera head cannot go through the bigger tube.



Unit: ± 0.5 mm

# FND-VB661A14RLH-108

| SERIES | CONNECTOR | CAMERA BODY | DISPLAY | MICROPHONE | LED | LENS |
|---|---|---|---|---|---|---|
| **USB 3.0**<br>(F)N Basic<br>(F)U Advance<br>(F)Y Low Temp.<br>**USB 2.0**<br>(F)M Basic<br>(F)T Advance<br>*F Snapshot and Freeze Frame | **UVC (USB)**<br>D Type A<br>M Micro-B (OTG)<br>T Type C<br>I Mini-B | **Front View**<br>(V)B Board Type<br>T Tube Type<br>V Tube Type<br>**Side View**<br>(V)BL Board Type<br>*V Dimmer Controller | **Color** **B/W** **Dimensions**<br>661A14R 661AM14R Ø 14<br>661A07 661AM07 7.3 x 19<br>*R Round Shape | N/A None | N/A None<br>**White**<br>L Normal<br>LH High-Intensity<br>**Infrared**<br>L9 IR 940 nm<br>L8 IR 850 nm | **Code** **Specification** **View Angle**<br>108 2.4 mm / F 2.6 108°<br>92 3.18 mm / F 2.8 92°<br>78 3.96 mm / F 1.8 78°<br>72 4.52 mm / F 2.8 72°<br>57 6.0 mm / F 2.2 57°<br>55 6.3 mm / F 2.5 55° |

* IR 940nm or IR 850nm LED is suggested to choose B/W camera type.
* Camera with LED light source is suggested to use lens with larger F-Stop number.
* Camera appearance or other requirements are applicable for customization.

**Connector Information**


USB Type A


USB Micro-B


USB Type C


USB Mini-B