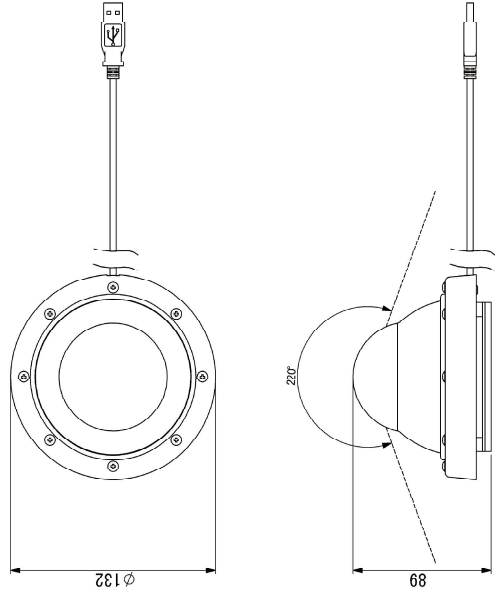


Appearance



IP66 IK10 Dome Housing
USB Cable (5m)

Size



Specification

CAMERA	
Imaging Sensor	1/2.3 inch color CMOS sensor, SONY IMX447
Effective Pixels (H x V)	4056(H) X 3040(V), approx. 12.3 Mega pixels
LENS	
Lens type	Mega pixel Fisheye lens (Stereographic projection method)
Focal Distance/Aperture	f=0.85 mm/less than F2.8 (F1.8 equivalent as 180° lens)
Viewing Angle	220° (w/Depression angle of 20°), 360°
Object Distance	10 mm ~infinity (from the lens surface)
Iris / Focus	Fixed
VIDEO	
Image Format	M-JPEG
Image Dewarping	Fisheye(hemisphere), 2x180° panorama, 360° panorama、ePTZ by application software
FPS/resolution	10 fps: 4032x3040, 1592x1944, 1600x1200, 640x480
Image Enhancement	automatic WDR, white balance, exposure, brightness, contrast
Interface	USB2.0
Local Storage	None
GENERAL	
Input Voltage	USB 5.0 V ± 5 %, 300 mA
Dimensions	φ132 × 89 (H) mm
Weight	700 g (excluding Cable)
Operation Environment	-20 ℃~+50 ℃, 10~85%Rh (no condensation)
Storage Environment	-40 ℃~+60 ℃, 10~95%Rh (no condensation)
Operative OS	Microsoft® Windows® 8, 8.1, 10, 11
Correspond Standard	IP66, IK10, JIS D 1601

? Specification is the subject of change without any notice.

Application

OS: Windows 8.1, Windows 10, Windows 11
Application software: PLCViewer

We have realized a camera that can shoot 360° all around high resolution images with one lens.

Product Features

- Equipping a high resolution fisheye lens with the depression angle of 20°, the camera takes ultra wide view of 220° + 360° shots. The road surface is in the shooting range.
- Implementing 12 Mega pixel color CMOS sensor and the lens provides clear movie and still images. Connecting the camera directly to a PC by a USB cable for monitoring and recording.
- Fisheye hemisphere images can be dewarped in 2x180° panorama, 360° panorama, and scrolled, zoom-in/out by a mouse operation.
- There is no mechanical parts for PTZ so that the camera durability is excellent.
- All weather proof. Water and dust proof IP66 and shock resistance IK10 dome housing.
- Easy installation on the roof top by a strong double adhesive tape or a magnet.

Manufactured and supplied by: **OPT Corporation**
5423-2 Miyagawa, Chino-shi, Nagano-ken 391-0013 JAPAN
Phone: +81-266-82-0020 FAX: +81-266-82-0022
http://www.optnagano.co.jp
E-mail: opt_info2@optnagano.co.jp

Rev.4 @2023.3

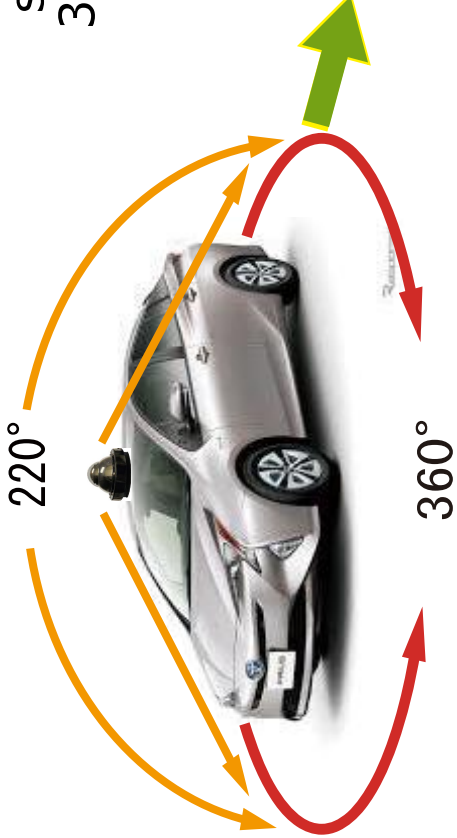
Rooftop type 360° Camera

Industry Highest Level

12 Mega Pixel

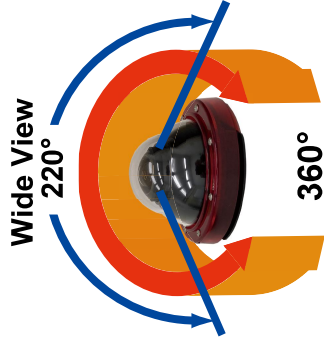
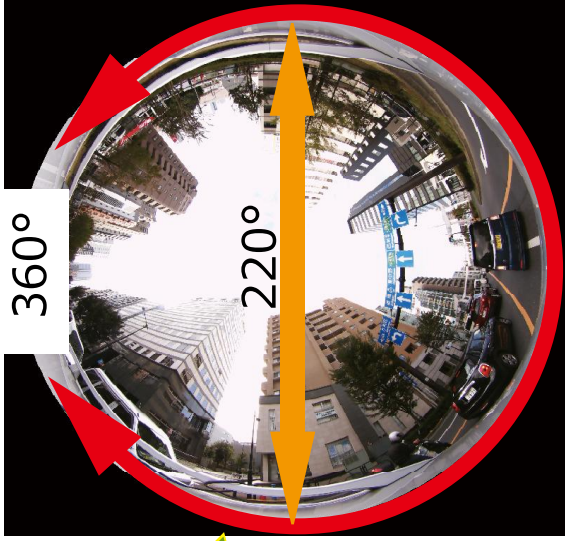
Model: PLC220-12M

12MP high resolution CMOS sensor and lens captures 360° all around clear view.



Shoot 360° all around the side

- ◆ Always shooting 360° view and, with a dedicated software, any location can be enlarged and dewarped to a plane.



Key Features

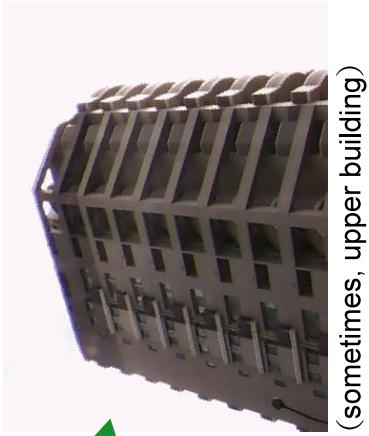
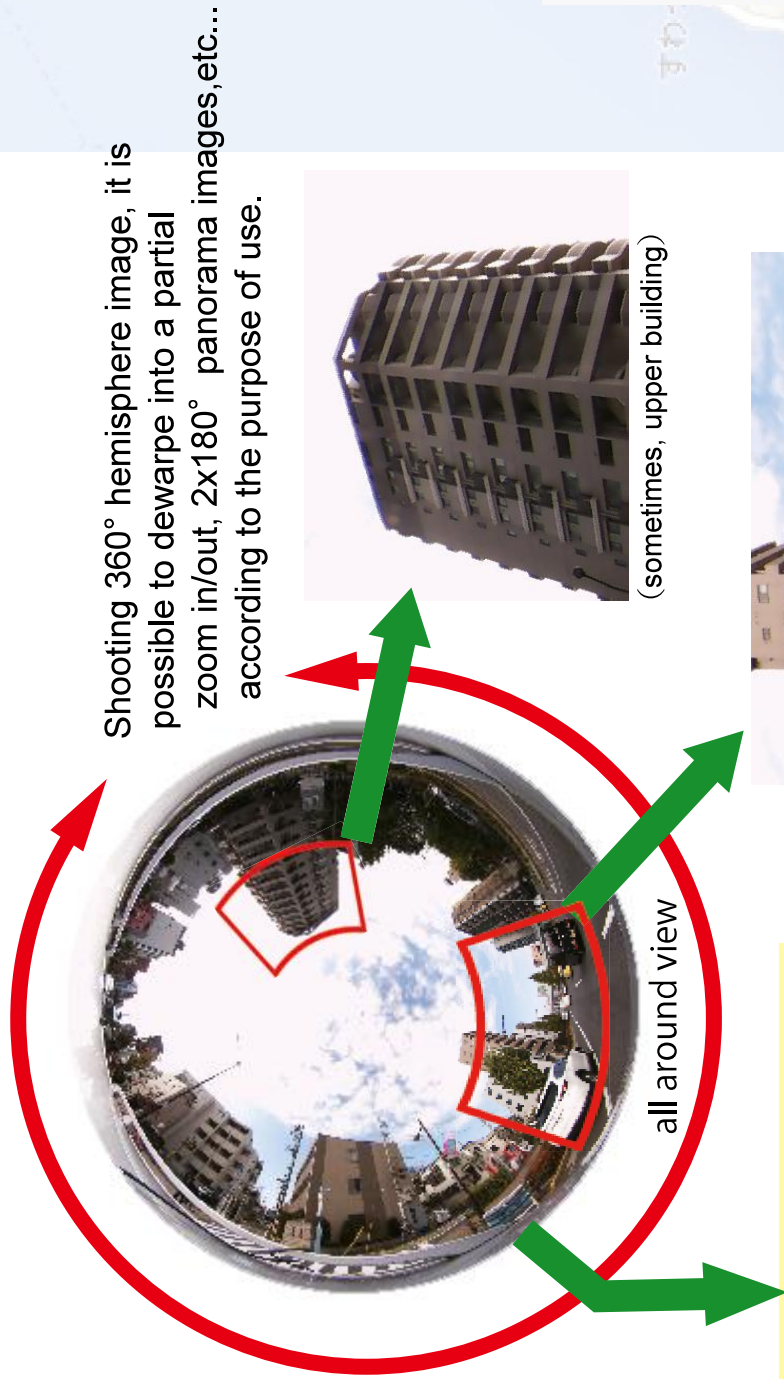
- All around view by one camera.
- Quick ePTZ by a simple operation.
- Connect with a PC by a USB cable to monitor and record 360° view.

- 12 Mega pixel high resolution CMOS sensor
- Mega pixel high resolution glass lens
- Fisheye lens with 20° depression angle
- Ultra wide view of 220°
- USB digital output (low power consumption)
- Easy installation and operation
- φ13 cm water-proof (IP66) and shock resistance (IK10) dome housing
- no moving mechanism = high durability
- Optional video mapping software

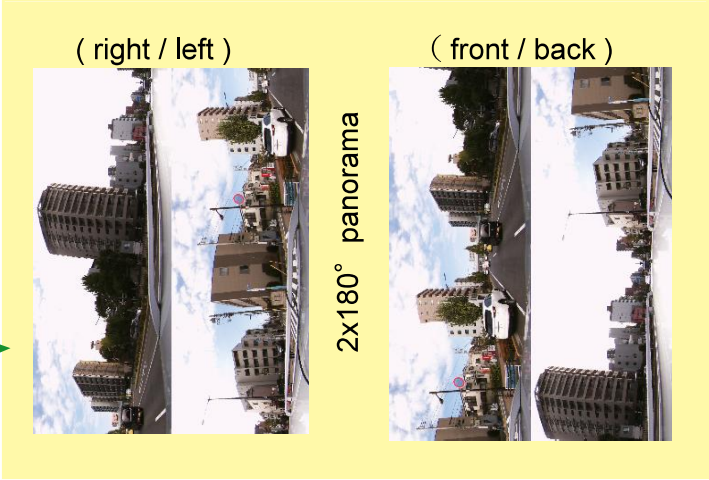
Mounting method :

Easy with Double adhesive tape or a magnet (option)

taking all around view camera is so easy and useful



Since the image from one camera is not like the image from multiple cameras, there is little distortion and real-time image dewarping is possible.



Example of Usage

IP66 Water-proof Dome Housing

possible to connect with Ethernet via an optional IP unit.

possible to connect with a PC in a car via a USB cable (5m)

camera control, picture recording

Police Car

Patrol Car

Fire Engine

- Implementing 12 Mega pixel color CMOS sensor → provide **clear pictures**
- connect with a PC in the car by only one USB cable → **easy installation**
- **Water/dust-proof housing** ← using in a high temperature/humidity Okinawa, in Safari rally
- Software dewarping for fisheye images.
- no moving mechanism by electronic PTZ → **High Durability**
- not a synthesized image → **easy operation**, less distortion
- Depression lens is equipped → only ours !
- **best cost performance** as a omnidirection car top camera (less than 1/10 of others)
- possible to connect with Ethernet via an optional IP unit.

taking with GPS locational information is so useful

- ◆ Date, time, and location (lat/long) information are recorded with picture.
- ◆ Super imposing pictures on a map gives accurate positional relationship.
- ◆ Always get the most recent visible information by driving yourself.
- ◆ Useful to take pictures at an accident scene.

If getting the GPS log information while taking movies in driving, GPS mapping software Vmap-III is optionally usable.

【Video Mapping Software Vmap-III】

