

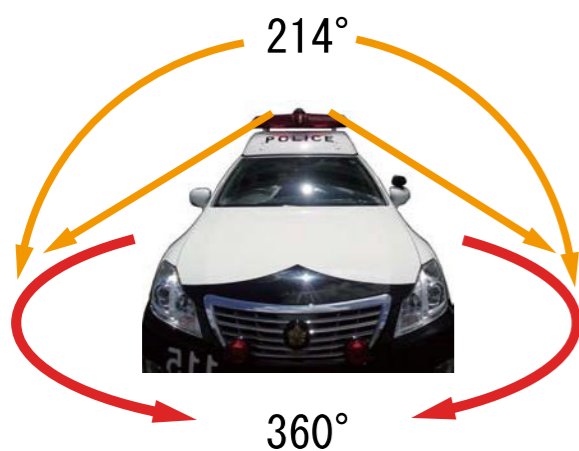
Appearance



USB Cable (5m)

Dome Housing

View Angle



17° below roof top is in the view area.

Specification

CAMERA	
Image Sensor	3Mpixel, 1/2 color CMOS
Effective Pixel (H x V)	2048 X 1536, approx. 3.15 M
Usable Pixel	approx. 1.7 M pixel
View Angle	214° , 360° (around axis)
Object Distance	10 mm ~ ∞ (from Lens surface)
Min. Light Required	5 Lux (colorful sight base)
White Balance	Auto Adjust
Exposure	Auto Adjust
Frame Rate (Max.)	15 fps
INTERFACE	
USB	USB1.1 (full speed) A type Cable length = 5 m
AV output (Digital)	
Signal System	USB1.1
Image type	AVI (movie): approx. 700 KB/s JPEG (still): approx. 600 KB/s
Image Size (Max.)	1536 x 1536 pixel
No. of color	32 bit color
POWER	
Input Voltage	DC 5.0 V ± 5 %
Current Consumption	500 mA (Max.)
SIZE	
Dimension	φ 130 x 73 (H) mm
Weight	700 g (except Cable)
OTHERS	
Operation Temperature	-20 °C ~ +60 °C
Housing	φ 130 polycarbonate, transparent Water resistant: IP66 Color: black or red

※ Specification is the subject of change without any notice.

Application OS: Windows VISTA, Windows7, Windows 8
Application software: GPS Mapping Soft

Features

- Equipping a small size fish-eye lens with the depression angle of 17°, the camera shots the ultra wide view of 214° + 360°. The road surface is within the shooting range.
- Implementing 3 Mega pixel color CMOS sensor provides clear movie and still images through USB. Connecting the camera directly to a PC in the car for controlling, monitoring and recording.
- Recorded image can be scrolled, zoom-in/out by a mouse.
- There is no mechanical parts for PTZ. High durability.
- All weather proof. Water resistant IP66 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

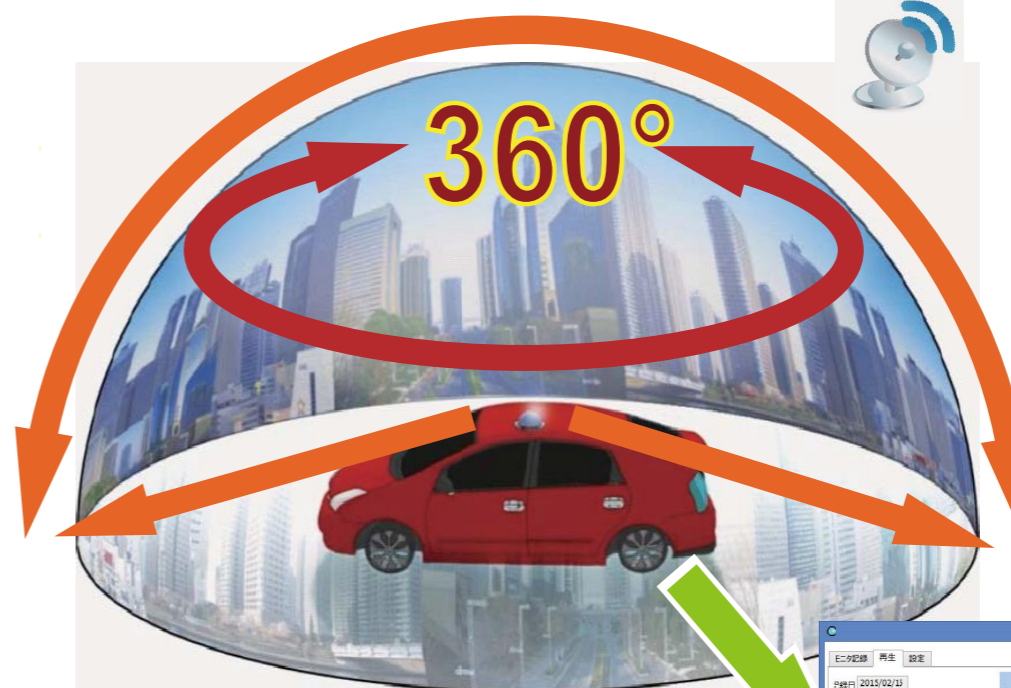
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Rooftop type NM33D-M-PLV 360° Panorama Camera

Ultra Wide View 214°



φ 13cm water-proof (IP66) Dome
(color : black, red)

- ◆ Superimposing GPS location information on the pictures and paste on a map.
- ◆ Because of 360° omnidirectional pictures, easy to dewarp arbitrary position.



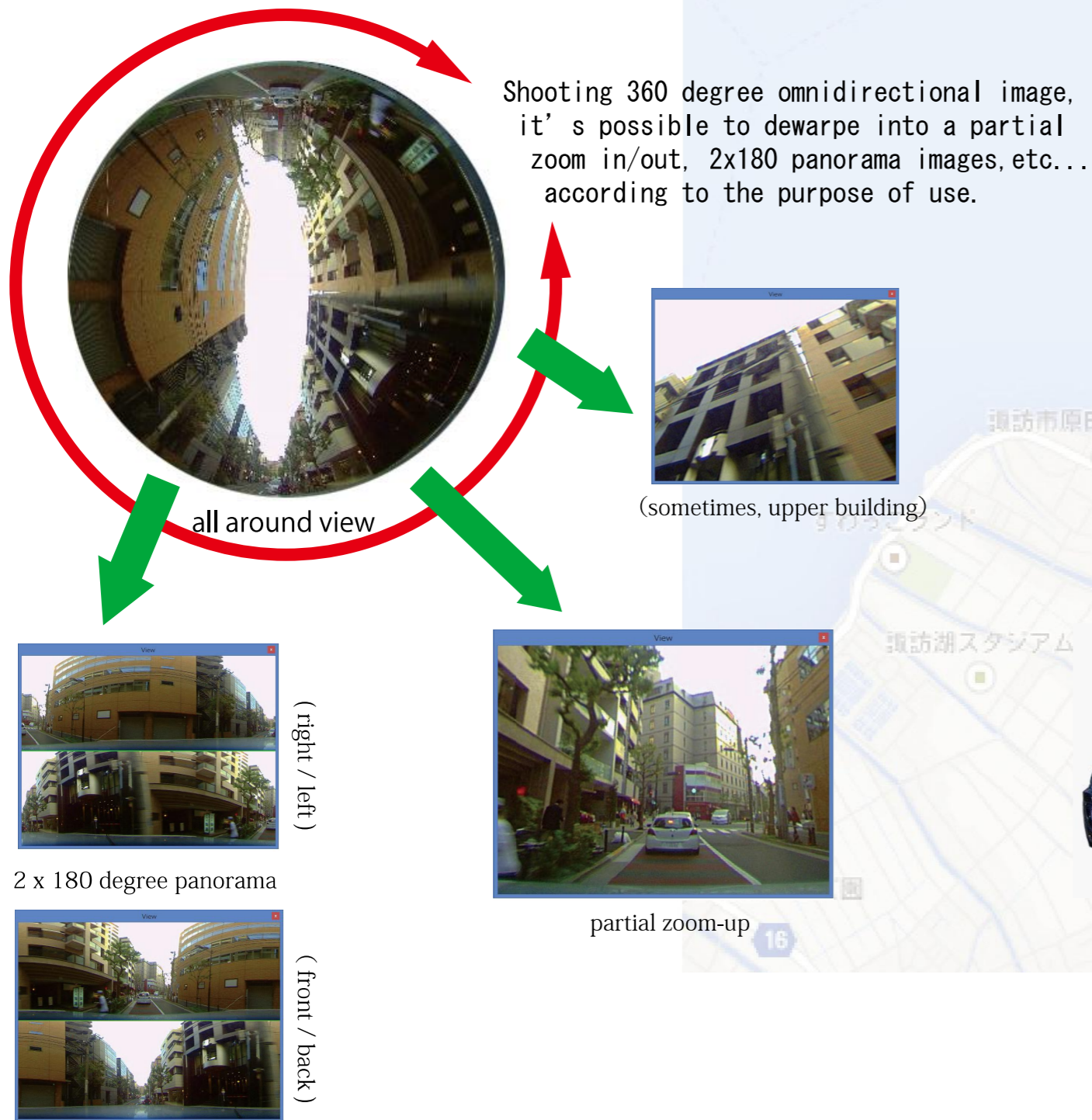
Key Features

- Connecting with a PC in the car by a USB cable, easy to control the camera and record movie all around the car.

Mounting method :
Double adhesive tape
or a magnet (option)

- 3 M pixel high resolution CMOS sensor implemented.
- USB digital output (low power consumption)
- easy to mount by a double adhesive tape on the roof
- Road surface is in the view through the ultra wide angle lens of 214°
- corresponding to GPS mapping software
- φ 13cm water-proof (IP66) dome housing
- no moving mechanism = high reliability

taking all around view camera is so easy and useful



Example of Usage



taking with GPS location information is so useful

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

- Implementing 3 Mpixel color CMOS sensor → provide **clear pictures**
- connect with a PC in the car by only one USB cable → **easy installation**
- Analog (NTSC) picture output is available → **Useful not like any other cameras**
- small size → **inconspicuous**
- **Water/dust-proof housing** ← using in a high temperature/humidity Okinawa, in Safari rally
- possible to extract (dewarp) the recorded images
- no moving mechanism by electronic PTZ → **High Durability**
- not a synthesized image → **easy operation**, less distortion
- built-in depression lens → only ours !
- **best cost performance** as a omnidirection car top camera (less tahn 1/10 of others)