on a table: TV Conference Camera

under a ceiling: Surveillance Camera

USB connection: WEB Camera

Omnidirectional Camera

NM33D-F

This camera has no blind spot

Built-in high-speed DSP enables to output developed flat/enhanced/panning images.
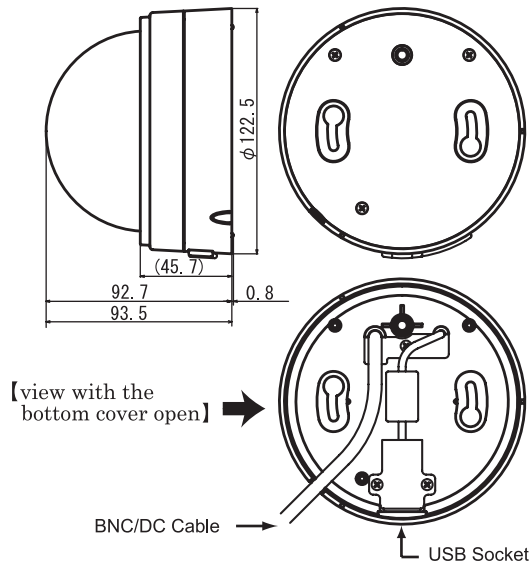
180 degrees Panoramic view

Features

Partial Zoom

◆ 180° + 360° ultra wide Viewing Angle

◆ 3 Mega Pixel color CMOS Sensor

◆ JPEG compressed digital images via USB port provide high-definition image to PCs and VCR

◆ NTSC/PAL composite output

◆ max 15 frames per second

◆ Digital Pan/Tilt/Zoom with no moving parts

◆ 5 inch diameter DOME configuration

Digital output keeps high-resolution image.

Image flip function enlarges the utility.

Dimensions (mm)

φ122.5

(45.7)
92.7   0.8
93.5

【view with the bottom cover open】 ➡

BNC/DC Cable ⟶

USB Socket

View Angle

180°

360°

Specification

CAMERA

Model	NM33D-F
Image Signal Output	NTSC/PAL composite (pre-setting at ex-factory)
Image Sensor	3 Mega Pixel Color CMOS sensor
Effective Pixels (h x v)	2048 X 1536, approx. 3.15 Mega pixels
Usable Pixels	approx. 1.70 Mega pixels
Viewing Angle	180°, 360°
Object Distance	10 mm ∼ infinity (from the lens surface)
Minimum Light Required	5 lux
white Balance	automatic
Exposure	automatic
Frame Rate	15 fps max.
Image Development	15 patterns

INTERFACE

Image Output	BNC female, 1 Vp-p, 750 Ω
Control Signal Input	6 pin, mini DIN
Power Input	DC jack (AC Adapter)
USB	A type

POWER

Input Voltage	DC 5.0 V ± 5 %
Current Consumption	500 mA max.
AC Adapter	DC 5 V, 2 A (recommended)

OTHERS

Operation Temperature	0℃∼ 40℃
Dimension	D122.5 X 93.7 mm
Weight	approx. 400 grams

Product Features

- Equipped with a newly developed small-sized fisheye lens（φ20mm）, taking pictures in hemispheric field of vision can reduce the number of cameras to use.

- Image flip function enables to place the camera either on a table or under a ceiling.

- Thanks to the built-in, newly developed, high-speed processor, you can convert a hemispherical image to a flat image and can zoom or scroll any portion of the images.

- JPEG compressed digital image output via USB port keeps high-resolution images to PC. Beside its very large data, 15 fps frame rate provides smooth video image.

- Thanks to the auto-panning function, you can enjoy auto-panning at your ease without turning your camera or extra image processing. The elimination of the swinging mechanism has reduced its cost and risk of malfunction.

Application

Store monitoring system
Factory monitoring system
TV Conference
Entrance monitoring system
Surveillance camera

Accessories

AC Adapter
CD (application soft, user manual)
USB extention cable (3 m)