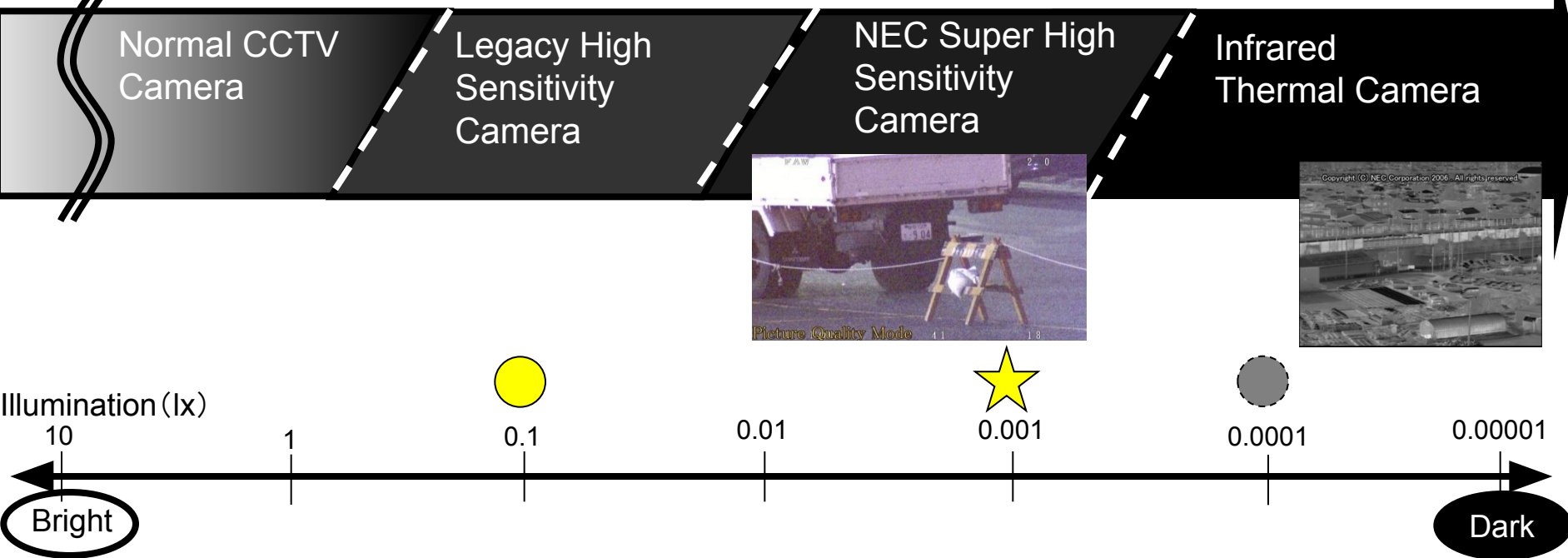


# High Sensitivity Camera

**NEC Corporation**

# 1. NEC Surveillance System Solution Components

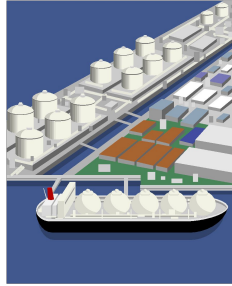


# 2. The 24 hour wide area video surveillance solution

Railroad



Port / Harbor



Broadcasting station



Natural disaster



an early find of tsunamis, a flood etc.

Airport



Disaster prevention

## High Sensitivity Camera

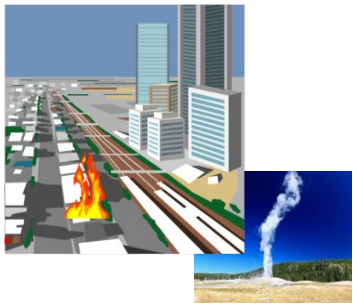
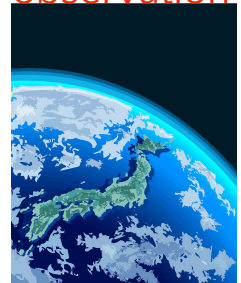


Take a clearer shooting all day and all night

Ecological observation



Astronomical observation



an early find of accidents or volcano activity

Facilities



watching of suspicious behavior or unusual situation

# 3-1. Detail of features 1/2

## High sensitivity

- Newly developed full HD CMOS sensor
- NEC original signal processing technology realizes shooting with low noise, high resolution, and excellent color reproduction, all day and night.

## Visibility improvement technology (developed by NEC)

- “**De-noise**” function improves S/N ratio when shooting dark place
- “**De-haze**” mode keeps better visibility even under foggy condition

## 3-2. Detail of features 2/2

### Auto Sensitivity Control (ASC) & Full-Auto White balance (FAW)

- ASC controls not only IRIS and Master Gain but also Pixel Addition, Charge Storage Time (Exposure Time), Electronic Shutter and ND filter to obtain best images even in any situation (all day and all night).

### Extended High Sensing Mode

- Generally speaking, image sensors must have spectral sensitivity to near-infrared rays, and cameras have an optical filter cut those rays in front of the sensor to get images with proper color balance. NC-H1200iR and NC-H1200P has IR-PASS mode that applies a filter deliver near-infrared rays to the sensors to achieve further high sensitivity.

### Digital Zoom

- As a zoom lens is turned toward the telephoto end, the the amount of incident light decreases (F-drop or ramping). Digital Zoom can realize zooming operation without F-drop.



NC-H1200/NC-H1200iR  
(Box type)




NC-H1200P


# 4. Snap shot by NC-H1200

Shooting image at night

NC-H1200




another firm's Camera




Effect of De-haze function

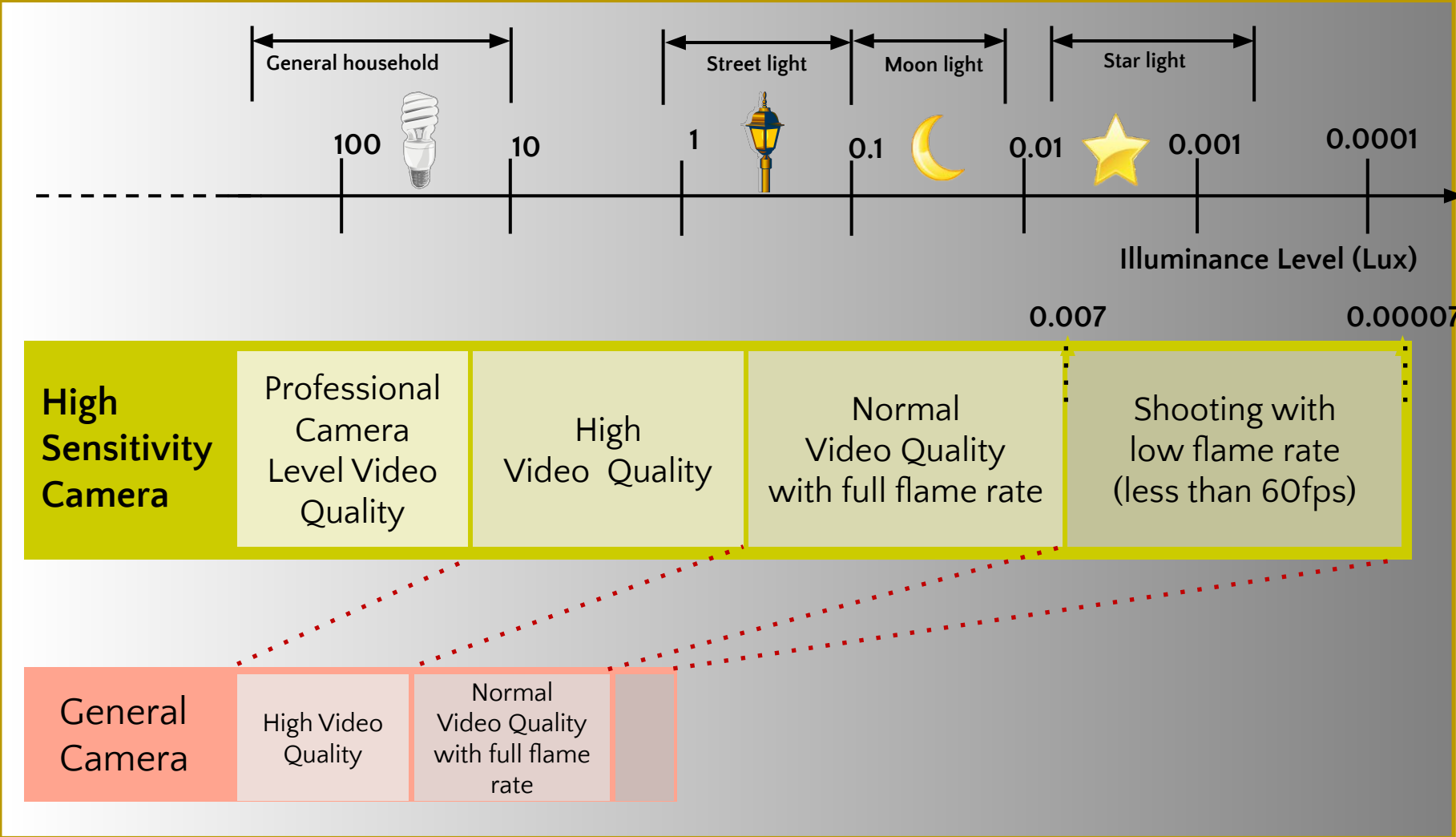
ON



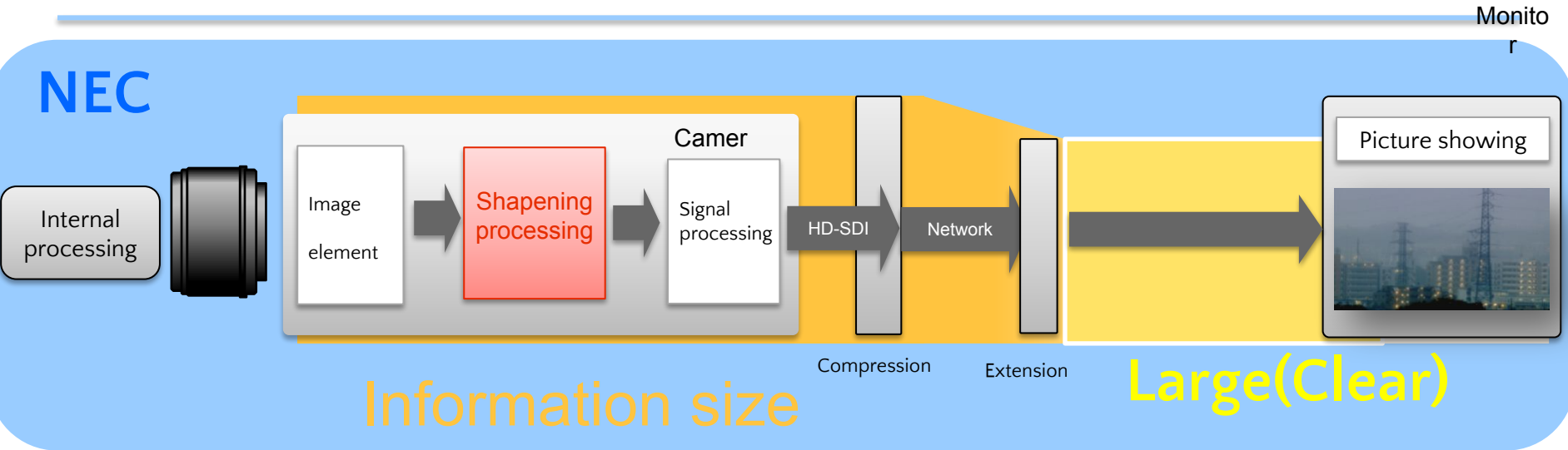
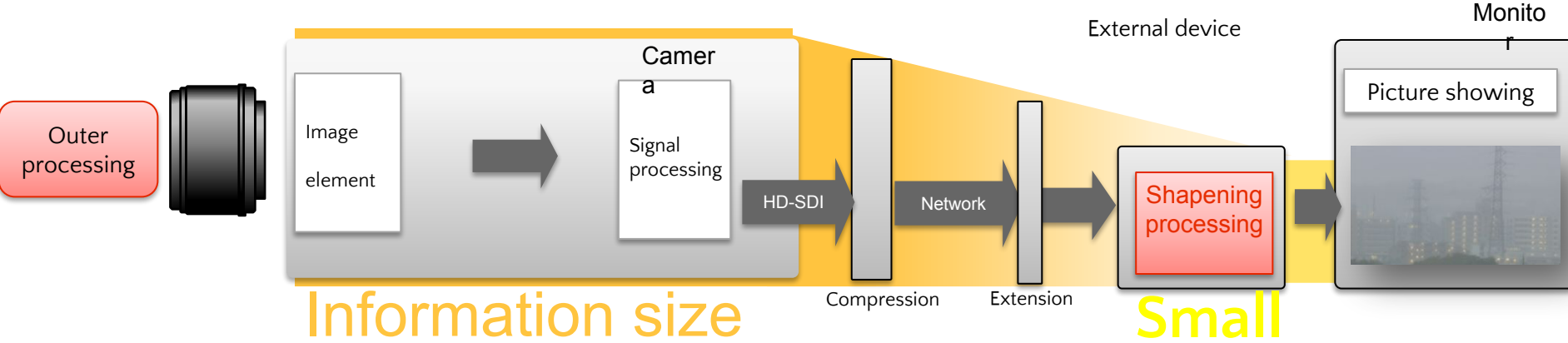
OFF



# 5. Illuminance Video Quality Comparison



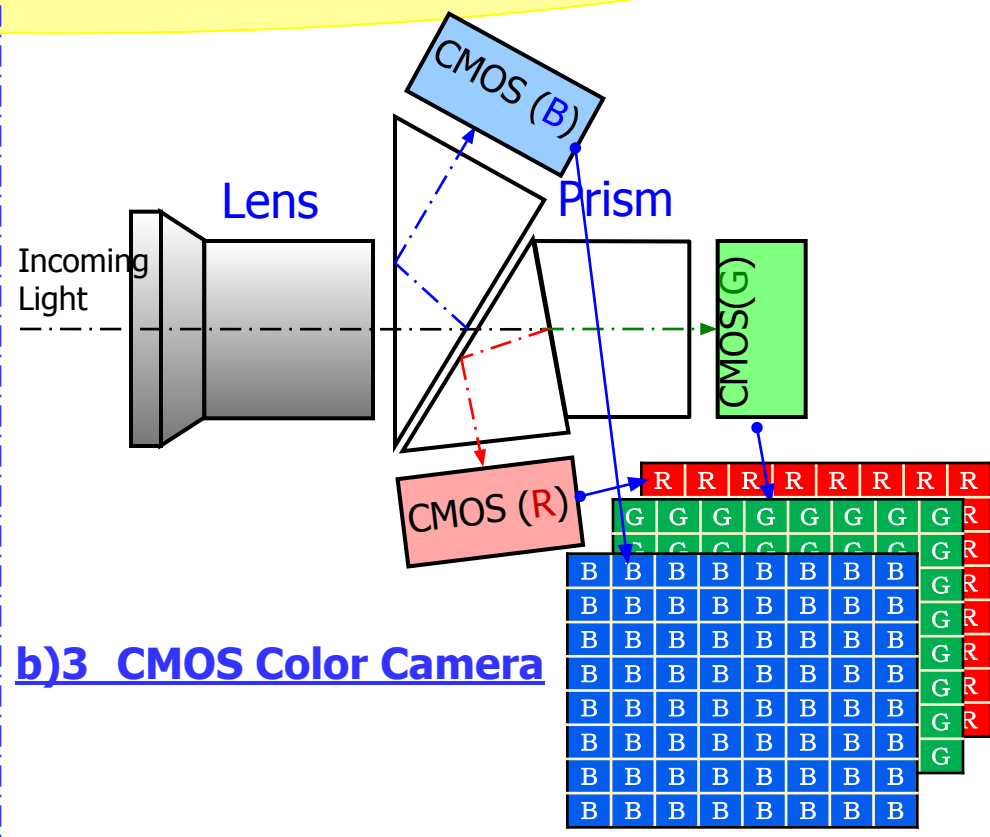
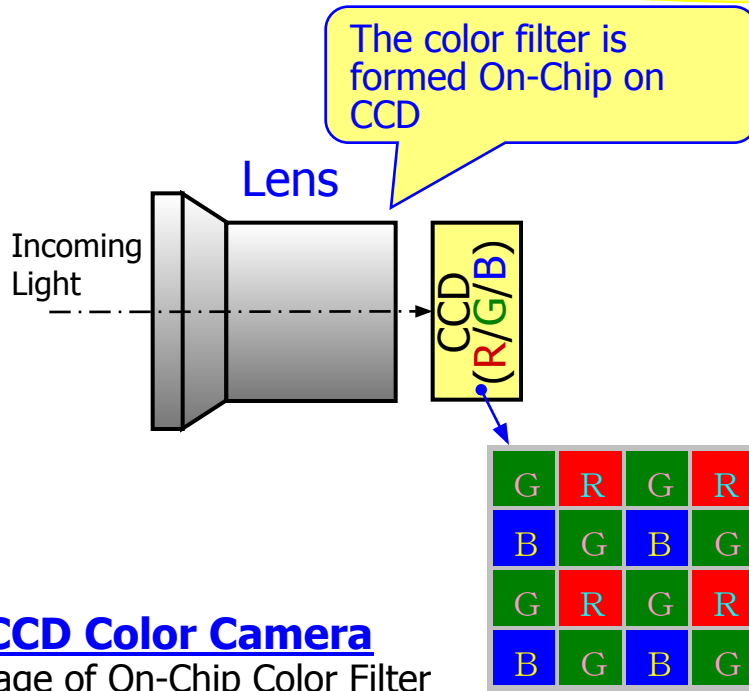
# 6. The advantage of built-in image sharpening processing





# 7. Full HD 3 CMOS vs Legacy CCD Camera

- a) 1-CCD Color Camera: Incoming Light is separated in color at On-Chip Color Filter formed on CCD Chip
- b) 3-Full HD CMOS Color Camera: Incoming Light is separated in color at Prism located before CMOS (more color information than 1-CCD)



## a) 1-CCD Color Camera

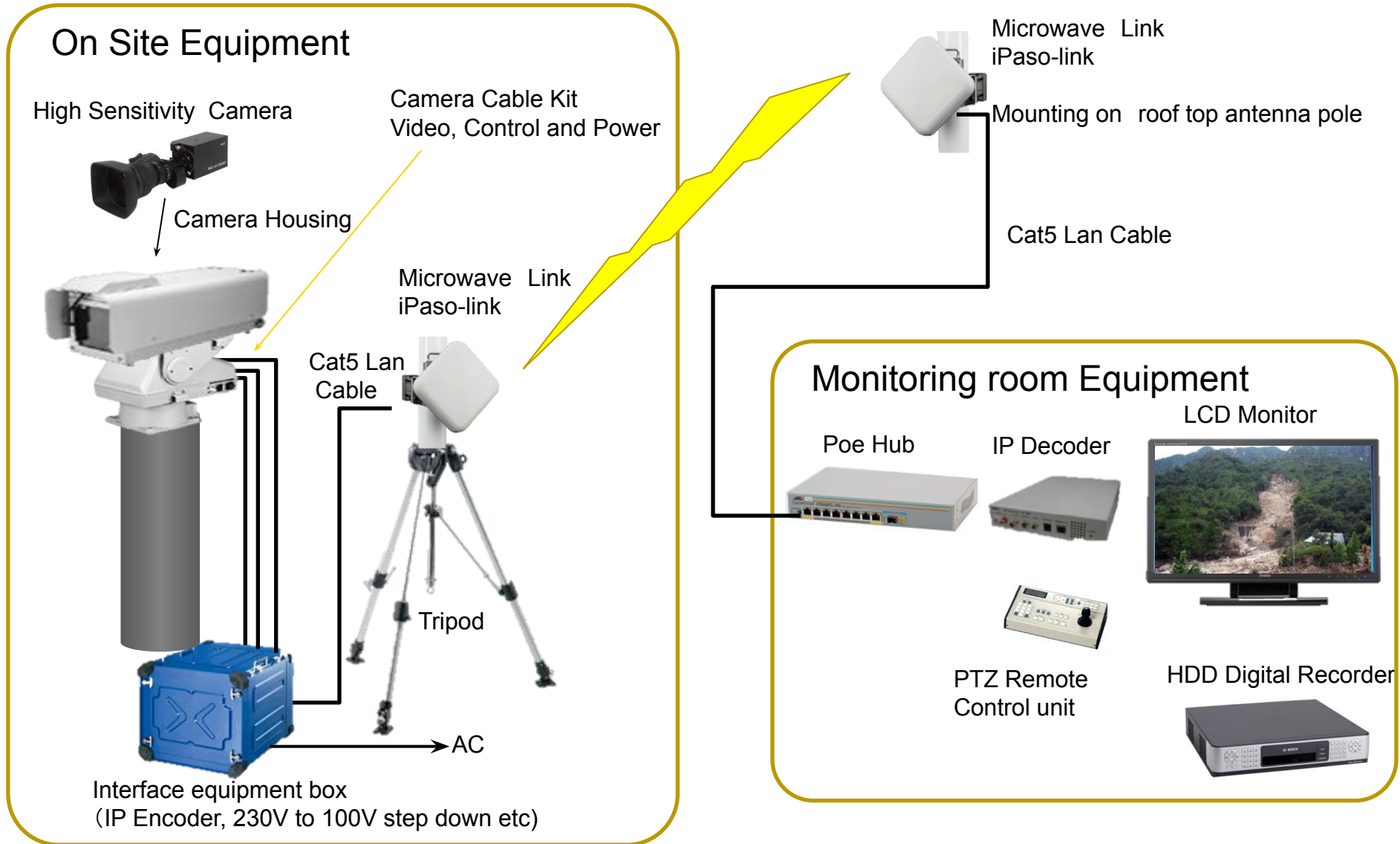
Image of On-Chip Color Filter  
(In case of Bayer Sequence Primary Color Filter)

Image pixels 658(H)×496(V) for all Color  
Effectively :329(H)×248 (V)for Green  
329(H)×128(V)for Red or Blue

## b) 3 CMOS Color Camera

Image pixels 1920(H)×1080(V) for Each Color

# 8. Basic Idea for remote monitoring system



# 8. NC-H1200 series Line-up

## NC-H1200/NC-H1200iR Box Type



### Zoom Lens

can be selected based on the demands

### General Spec.

Dimensions  
90mm (W) x 103 mm (H) x 161mm (D)  
Weight  
Approx. 1.3 kg

\* A stand-alone camera can be combined with general pan & tilt head and camera housing products.

## NC-H1200P Camcorder Type



### Zoom Lens

can be selected based on the demands

### Equipped Function

View finder, Recording unit and Shoulder pad

### General Spec.

Dimensions  
130mm (W) x 238 mm (H) x 258mm (D)  
Weight  
Approx. 5.5 kg (Body and View Finder)

## NT-S370 X25 PTZ type\*



### Zoom Lens

Zoom Ratio 25 times  
Focal Length 9.6~240mm  
Field of View 9.6mm 53.1° x31.4°  
240mm 2.29° x1.29°

### Pan Tilt Head

Pan & Tilt Range Horizontal : 360° endless  
Vertical : +20° ~ -70°  
Pan speed 180° /s(max)  
Tilt speed 90° /s(max)

### General Spec.

Dimensions 314 (W)x444(H)x495(D)mm  
Weight Approx. 23kg

\* To be prepared

Empowered by Innovation

**NEC**