

# Omnidirection camera performance comparison

2011.4 OPT Corporation

Company	OPT	MOBOTIX	Grandeye	AXIS
Model Name	NM33-F	Q24	Halocam-R	212PTZ
Image Sensor	○	○	○	○
	1/2 inch Color CMOS	1/2 inch Color CMOS	1/2 inch Color CMOS	1/2 inch Color CMOS
	3 Mega pixel	3 Mega pixel	3 Mega pixel	3 Mega pixel
	2048 x 1536	2048 x 1536	2048x1536	
All around View angle	○	×	×	×
	360° X 180°	360° × 180°	360° × 180°	horizontal: 44~140° , vertical :35~105°
	NM33-M: 360° X 214°	blind spot in two directions not exact 180°		not hemispheric blind spot in four directions
Display Pattern	○	○	○	×
	1 / 2 / 4 separations 15 patterns	1 / 4 / 6 separations (※1)	1 / 2 / 4 separations 6 patterns	1
Sub image	○	×	○	×
Angle Setting	easy	difficult	multi-target	
e-PTZ	○	○(※1)	○	○
Analog Image Output	○	×	2	×
Digital Image Output	○	○	×	○
	USB port (easy to connect PC) * UVC version is prepared	LAN		LAN
max. frame rate	15 fps (in digital live view)	16 fps (in digital live view)	12 fps	
Serial IF	○	×	×	×
	Possible through the optional I/F board			
Remote Control	○	×	○	×
	optional remote controller			
LAN	△	○	×	○
	possible with DDIPS			
Usability on existing system	○	×	○	×
		LAN connection only.	BNC connection only.	LAN connection only.
		Impossible to use on the existing system.		Impossible to use on the existing system.
		A new development is required.		A new development is required.
Power supply	○	×	○	
	External power supply & USB bus power	PoE (Ethernet) only. Need to prepare an exclusive use power		
Shape	○	×	×	×
	small & light	heavy, large	very heavy, a large extract part	heavy, a large extract part
	approx 30mm sq. , 65 g			
Recording capability	No	SD card recording.	×	
		Need to open the rear cover to remove		
	possible by PC	the card. Damage to the camera may damage the recorded data, too.		
Price	low	high	high	high
others	three lens variations DEP lens has world largest view angle of 214 degree.			
Durability	more than 7000 are being used in Shanghai subway cars.	unknown	unknown	unknown
Special feature	<b>Output via USB digital</b>			
	<b>simultaneously via analog composite</b>			
	Possible to record the analog image to DVR with controlling the camera by USB.			
Patent matter	SONY and original	(※1) doubt of infringement for the SONY patent		