



**4in1**  
One Installation

**21MP** Total Resolution   **180°** Panoramic View   **4x** 8.0mm Fixed Lenses   **Smart DNR™**   **IP66** Rated   **5YEAR** Limited Warranty

## Summary

The MEGApix® Pano™ 21MP multi-sensor IP vandal camera produces 180° views at real-time 30fps. The camera supports advanced features such as H.264 codec and Smart DNR™ in an aluminum vandal housing with zero distortion anti-reflective glass. The 21MP camera does the work of many cameras from one installation, delivering both unprecedented wide views and details.

## Features

- 4x 6.4MP 1/1.8" image sensor at real-time 30fps
- 21MP 180° panoramic view IP camera
- 4x 8.0mm fixed lens
- Fast frame rates: real-time 30fps at 21MP
- Zero distortion anti-reflective glass
- PoE injector included
- Dual codecs (H.264, MJPEG) with simultaneous dual-stream
- Two-way audio
- Easy image alignment and stitching
- Smart DNR™ 3D digital noise reduction
- True day/night with mechanical IR cut filter
- Auto gain control (AGC)
- Auto white balance (AWB)
- Motion detection
- Alarm sensor input
- Relay output
- Web server built-in
- ONVIF conformant, profile S
- PoE+ high power and DC12V
- IP66 environmental-rated dust-tight and water-resistant
- 5 year warranty

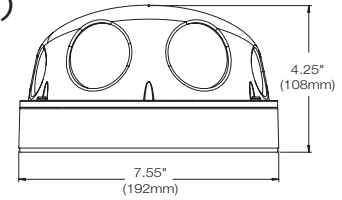


## Accessories (Optional)



## Dimensions

unit: Inch (mm)



## Specifications



Designed and engineered in U.S.A and Korea

| IMAGE                                 |  |
|---------------------------------------|--|
| Image sensor                          | 4x 1/1.8" CMOS   |
| Total pixels                          | 3096(H) X 2080(V)  |
| Minimum scene illumination            | 0.16 lux (color)   |
| S/N ratio                             | 50dB   |
| Maximum resolution                    | 21MP (4x 5.3MP)  |
| LENS                                  |  |
| Focal length                          | 4x 8.0mm, F1.6   |
| Lens type                             | Fixed lens   |
| Field of view (FoV)                   | Over 180°  |
| I/O                                   |  |
| Audio in / out                        | 1(1.0Vms, 3K ohm)/1  |
| Alarm in / out                        | 1/1  |
| Audio compression                     | G.711  |
| OPERATIONAL                           |  |
| Shutter mode                          | Auto, Manual, Anti-Flicker, Slow Shutter   |
| Shutter speed                         | 1/15 - 1/32000   |
| Slow Shutter                          | 1/2, 1/3, 1/5, 1/6, 1/7.5, 1/10  |
| Auto gain control                     | Auto   |
| Day / night                           | Auto, day (color), night (B/W)   |
| Smart DNR™ 3D digital noise reduction | 3D DNR   |
| White balance                         | Auto   |
| Mirror and flip                       | Yes  |
| Backlight compensation (BLC)          | Yes  |
| Privacy zones                         | 16 programmable privacy masks  |
| Alarm notifications                   | Notifications via e-mail notifications, FTP, alarm output, SD card recording   |
| Memory slot                           | Micro SD/SDHC/SDXC class 10 card (card not included)   |
| NETWORK                               |  |
| LAN                                   | 1000Base-T(1Gbps)  |
| Video compression type                | H.264, MJPEG   |
| Resolution                            | H.264: 3072x1728/1080p/720p/640x360/512x288/384x216<br>MJPEG: 384x216 / 352x288 / 352x240                                      |
| Frame rate                            | Up to 30fps at all resolutions   |
| Video bitrate                         | 100Kbps - 10Mbps, multi-rate for preview and recording   |
| Bitrate control                       | Multi streaming CBR/VBR at H.264 (controllable frame rate and bandwidth)   |
| Streaming capability                  | 3072x1728p30 + 640x360p7 with H.264 and MJPEG (up to 16 streaming )  |
| IP                                    | IPv4   |
| Protocol                              | TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2/v3, (MIB-2), ONVIF |
| Security                              | HTTPS(SSL), IP filtering, 802.1x, digest authentication(ID/PW)   |
| ONVIF conformance                     | Yes  |
| Web viewer                            | OS: Windows® 7, Windows® 8, Windows® 10<br>Browser: IE, Chrome, Firefox  |
| Video management software             | DW Spectrum® IPVMS   |
| ENVIRONMENTAL                         |  |
| Operating temperature                 | -40°F - 122°F (-40°C - 50°C)   |
| Operating humidity                    | Less than 80% (non-condensing)   |
| IP rating                             | IP66 certified   |
| Other certifications                  | FCC, CE, ROHS, UL listed   |
| ELECTRICAL                            |  |
| Power requirement                     | DC12V, PoE IEEE 802.3at PoE+ class 4 (High power PoE injector included)  |
| Power consumption                     | DC12V: 21.5W<br>PoE IEEE802.3at Class4: 23.2W  |
| MECHANICAL                            |  |
| Material                              | Aluminum vandal housing, polycarbonate lens cover  |
| Dimensions                            | 7.55" x 4.25" (192 x 108mm)  |
| Weight                                | 4.4 lbs (2kg)  |
| Warranty                              | 5 years  |