

# NetCam SC 180° Panoramic

## OVERALL SITUATIONAL AWARENESS

- RGB, CMOS, Frame Transfer, Up to 30 FPS, MJPEG, & H.264
- 20MP (7296x2752) 10MP (5184x1944) 6MP (4096x1536) HD (2592x976)
- Simultaneous IP Network Video & BNC Coaxial Video Output
- Light Sensitivity: 0.3 Lux color, 0 Lux in IR mode (on IR models w/ IR illuminator)
- Video out BNC, allows viewing of video on standard CCTV monitor, MUX, DVR



NetCam SC 180° Panoramic • DATASHEET

We have designed this Dome Mounting Kit to meet specific customer requirements. The kit provides a 180 degree surveillance solution by its Single point, Double Dome installation design. One of the many advantages is the capability to reach higher frame rate per camera. This achieves its highest performance by utilizing the full image sensor and its native frame rate, rather than the conventional multiplex FPS (Frame Rate per Second) between each view. Additional benefits are its functional reliability. Compared to single dome enclosures, our double domes have a greater surface area, thus decreasing failure rate from overheating. The kit includes an extended connector cable for a simple connection point at the back of the vertical wall mount. Each camera is equipped with a 3.5mm lens with HFOV of 96 degrees, enabling a seamless, overlapping.



### 180° VANDAL RESISTANT DOME

Double Dome Vandal Resistant Design

#### H.264

- H.264 up to 20 Megapixel resolution
- MJPEG stream available at full speed when using H.264
- Compression Standard: AVC / H.264 (ISO/IEC 14496-10)

#### FEATURES

- Simultaneous IP Network Video & BNC Coaxial Video Output
- Outputs up to 20 Megapixel, 1080P, 720P and NTSC/PAL
- Up to 56 Times More Resolution than CCTV Cameras
- Operates at -40° to +120° F (-40° to +48 C)
- Internal Events trigger NVR / Email / FTP
- Power Over Ethernet, 12VDC or 24VAC
- Available in HD, 6, 10, and 20 Megapixel
- Integrated Video Motion Detection
- Automatic Day/Night IR Filter
- DC Auto Iris Support

# TECHNICAL SPECIFICATIONS SDH-P180 SERIES

Camera Specs																															
<b>Models:</b>	SDH-P180-HD: Dual 1.3MP resolution, tamper-resistant, indoor/outdoor SDH-P180-6MP: Dual 3.0MP resolution, tamper-resistant, indoor/outdoor SDH-P180-10MP: Dual 5.0MP resolution, tamper-resistant, indoor/outdoor SDH-P180-20MP: Dual 10MP resolution, tamper-resistant, indoor/outdoor***																														
<b>Image sensor:</b>	Dual 1/2.5" Progressive scan RGB CMOS Dual 1/2.3" Progressive scan RGB CMOS***																														
<b>Lens: Lens Mount: Day and night</b>	3.5mm, 1/2.5", f1.8, CS Fixed Iris, Day & Night, HFOV: 96° CS-Mount (C-Mount compatible) Automatic Mechanical Infrared-cut filter built-in																														
<b>Minimum illumination</b>	Color: 0.3 Lux @ F1.4 Day/Night: 0 Lux, IR sensitive																														
<b>Electronic Shutter time</b>	<table border="0"> <thead> <tr> <th>Shutter Speed</th> <th>Exposure Time</th> </tr> </thead> <tbody> <tr> <td colspan="2">Range From 0-32767 Configurable Setting</td> </tr> <tr> <td colspan="2">Typical Values Listed Below</td> </tr> <tr> <td>48</td> <td>1/1000 second (0.0001)</td> </tr> <tr> <td>96</td> <td>1/500 second (0.002)</td> </tr> <tr> <td>240</td> <td>1/200 second (0.005)</td> </tr> <tr> <td>480</td> <td>1/100 second (0.01)</td> </tr> <tr> <td>800</td> <td>1/60 second (0.1666)</td> </tr> <tr> <td>960</td> <td>1/50 second (0.020)</td> </tr> <tr> <td>1600</td> <td>1/30 second (0.0333)</td> </tr> <tr> <td>3200</td> <td>1/15 second (0.0666)*</td> </tr> <tr> <td>6000</td> <td>1/8 second (0.125)*</td> </tr> <tr> <td>12000</td> <td>1/4 second (0.25)*</td> </tr> <tr> <td>24000</td> <td>1/2 second (0.5)*</td> </tr> <tr> <td>32767</td> <td>0.7 seconds (maximum exposure)*</td> </tr> </tbody> </table>	Shutter Speed	Exposure Time	Range From 0-32767 Configurable Setting		Typical Values Listed Below		48	1/1000 second (0.0001)	96	1/500 second (0.002)	240	1/200 second (0.005)	480	1/100 second (0.01)	800	1/60 second (0.1666)	960	1/50 second (0.020)	1600	1/30 second (0.0333)	3200	1/15 second (0.0666)*	6000	1/8 second (0.125)*	12000	1/4 second (0.25)*	24000	1/2 second (0.5)*	32767	0.7 seconds (maximum exposure)*
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<b>Pan/Tilt/Zoom</b>	Digital PTZ																														

Video Specs	
<b>Video Compression</b>	H.264 (MPEG-4 Part 10/AVC) Motion JPEG
<b>Resolutions</b>	HD: Dual 1296 x 960 resolution, combined resolution 2592 x 960 6MP: Dual 2048 x 1536 resolution, combined resolution 4096 x 1536 10MP: Dual 2560 x 1944 resolution, combined resolution 5120 x 1944 20MP: Dual 3648 x 2752 resolution, combined resolution 7296 x 2752
<b>Frame Rates</b>	Frame Rate Valid for H.264 and MJPEG compression HD: 30FPS / 12FPS at downsample mode 6MP: 18FPS 10MP: 10FPS 20MP: 5FPS
<b>Video streaming</b>	Multi-stream H.264 and Motion JPEG Adjustable frame rate and bandwidth Variable Bit Rate / Constant Bit Rate for H.264 Controllable size and quality for Motion JPEG
<b>Image settings</b>	saturation, contrast, sharpness, brightness, white balance, exposure control, exposure mask zones, backlight compensation, low light adjustment Rotation: 0°, 360° Mirroring of images Customizable date/time/text overlay Privacy mask, 16 x 16 grid, unlimited selectable fields within grid

Network Specs	
<b>Supported protocols</b>	IPv4, HTTP, FTP, ARP, NTP, Telnet, Daytime, X/Y/Z modem SMTP, DynDNS, DNS, RTSP, RTP, TCP, DHCP  Built-in web server, telnet server, email client and FTP client System integration Application Programming Interface StarDot http API Power over Ethernet IEEE 802.3af Class 2 Connectors RJ-45 10BASE-T/100BASE-TX PoE
<b>General</b>	Casing Polycarbonate transparent cover Metal inner camera module with encapsulated electronics Impact-resistant metal casing IP66-rated metal casing
<b>Processor and memory</b>	Reconfigurable hardware resources 3.2 million gates 128 bit wide memory compressor clocking speed, 1 clock per sample high speed dual ported ram block 1 million bytes? user configurable uClinux operating system Motorola Coldfire CPU

(reserved for additional information)	
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