



## KNC-p2DR28V12

## 2.1 Megapixel Outdoor Rugged Dome

- Resolution of 1920x1080~320x240, H.264 or MJPEG at up to 30FPS
- Constant or variable bit rate control 1.4~8Mb/s with up to four video streams
- Open API for integration by API, SDK
- 1/2.8" SONY 2.43M Progressive Scan CMOS
- Varifocal Aspheric 2.8~12mm 2 Megapixel lens to capture the desired field of view
- Electronic Day/Night
- Light sensitivity of 2lux @ F2.5, DSS\* off; .05lux DSS\* max.
  - CVBS analog service video output inside housing
  - Use standard hand held test monitors
- Convenient aim and focus; ease of service
- Easy to use OSD setup menu
  - Digital slow shutter (Sens-Up) low light enhancement (More than 2~4X enhancement should be limited to select applications.)
  - Digital Wide Dynamic Range to handle the most challenging of bright or unbalanced lighting conditions
  - Programmable Back Light Compensation (BLC) and Highlight Suppression Back Light Compensation (HSBLC)
  - Adjustable 3D Noise Reduction to increase low light picture clarity and conserve DVR HDD disk space
  - Video motion detection
  - Privacy masking
  - Defog improves image contrast in the presence of haze or smoke that obscures image details
  - Brightness, contrast and saturation adjust
  - Image rotation
- Audio in and out
- Alarm trigger in and out
- Micro SD card slot supports up to 32Gb of SDHC storage
- Integral liner inhibits observation of camera direction
- Dual power PoE class 3 (IEEE 802.3af) 2.5W or 12VDC +/-10% 210mA
- IP68 water proof, vandal proof construction
- Operating temperature range of -14 °F ~ 122 °F
- Easy mounting using 3-Axis positioning for convenient wall or ceiling mounting
  - Optional KA-RCMP1 for mounting to standard electrical boxes
  - Optional KA-RCWM1 wall mounting arm

Audio	
Input	Wire Leads; OSD volume control
Input Codec	G.711 a-law, µ-law 64Kb/s; G.726 variable B/W
Output	Wire Leads; OSD volume control
Output Codec	G.711 µ-law 64Kb/s
Network	
LAN	Ethernet 10/100 Base-T (RJ-45 Type) with weather sealed shell
Security	Multiple user access levels with password protection; IP address filter (Deny/Allow)
Protocol	IPv4, HTTP, HTTPS, TCP, RTSP, RTP, UDP, IGMP,RTCP, SMTP, FTP, ICMP, DHCP, ARP, DNS, DDNS, UPnP, SSL
Network Storage	Video upload to PC, FTP or NAS
VMS Compatibility	Open API for SDK integration
Supported Browsers	Internet Explorer (with ActiveX plug-in) support for video format change, stream play/stop, Snapshot, Instant recording (300 s. max.), Screen Magnification, Full Screen Display; Live view image popup from within Configuration menu to check image without exiting menus.
Intelligent Video	
Video Motion Detection	With arming schedule and multiple actions: notify NVR, send email, upload to FTP, trigger alarm output
System Integration	
API	Open API for integration by API, SDK
Alarm & Event	
Alarm Triggers	Intelligent video Motion Detection, Network Fail, SD Card Scheduling, Reboot
Alarm Events	Notify NVR, send email (with SSL server support), upload to FTP, trigger alarm output
Micro SD Card Slot	Up to 32Gb, SDHC support
General	
Angle Adjustment	Pan: 0~360° Tilt: 0~75° Rotate: 0~360°
Power	PoE class 3 (IEEE 802.3af) 2.5W 12VDC +/- 10% 210mA
Interface	8P/8C RJ-45F with weather seal for Network and PoE Power (DC 12V) Input (3.5mm coaxial plug) Service Video Output (CVBS)
Environmental	IP68 (Water Proof)
Operating Temperature	-14 °F ~ 122 °F (-10 °C ~ 50 °C)
Dimension	4.21" diameter/3.82" high [107mm dia./97.1mm high] Bubble 3.15" diameter [80mm]
Weight	1.67 lbs./760 grams
Approvals	
Conformity	FCC, CE
Accessories	
Mounting Options	Optional KA-RCMP1 for mounting to standard electrical boxes Optional KA-RCWM1 wall mounting arm

Camera	
Image Sensor	1/2.8" SONY 2.43M Progressive Scan CMOS
Total Pixels (H x V)	1920x1080 2.1 Megapixel @ Maximum Resolution
Day & Night	Electronic Day/Night
Min. Illumination	.2lux @ F2.5, DSS off .05lux @ DSS max DSS levels above 4X should be used only after careful consideration of scene dynamics
Shutter Speed	1/30s ~ 1/8,000s
DWDR/BLC	DWDR: Off/Auto, Weak, Medium, Strong BLC: User controlled area and level
White Balance	Auto, Hold, Incandescent, D4000, D5000, Sunny, Cloudy, Flash, Under water
3D DNR	Level Adjust 0~255
DSS	Off/Auto
Day/Night Modes	Auto, color, B/W, with OSD controlled level and delay
Flickerless	Off, 60Hz, 50Hz
Lens	
Focal Length	2.8~12mm
Lens Angle	1920 x 1080: Angle of view: 98.5°(2.8mm), 79°(4mm), 49°(6mm), 23.2°(12mm)
Lens Type	Manual Varifocal, DC-iris with OSD control
Video	
Compression	H.264 Main Profile & MJPEG
Supported Resolutions	H.264: 1920x1080~320x240 MJPEG: 1920x1080~320x240
Maximum Frame Rates	30FPS H.264 @ MJPEG
Bit Rate	Choice of constant or variable bit rate 1.4~8Mb/s I frame interval 1~30
Streaming	Four streams at different frame rates and bandwidth
Image Settings	Brightness, Contrast, Saturation, Sharpness, White Balance, Exposure Control, Imag rotation, Text and Image overlay, Privacy Masking, BLC, AGC, D-WDR, 3D DNR, DS (Slow Shutter Mode)





## KNC-p2DR28V12IR

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- Alarm trigger in and out
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- Integral liner inhibits observation of camera direction
- Dual power PoE class 3 (IEEE 802.3af) 2.5W or 12VDC +/-10% 210mA
- IP68 water proof, vandal proof construction
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