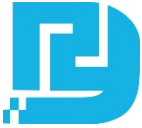# NXP 2.0MP HD Series Network Cameras

Powerful, _affordable_ series

Product Features

- NXP ASC88XX Chipset, Sony IMX122 1/2.8 2M HDIS sensor
- Up to 2.0MP/(1920x1080)Megapixel Resolution
- 2.8/3.6/4/6/8/12/16/25mm Lens option
- Integrated Adaptive IR Illumination
- Motion Detection and video mask
- Operating Temperature from −20°C to 50°C

- (−4°F to 122°F)
- Power over Ethernet (PoE) and 12 DC/2A Power Input option
- Compatible with RYD and Third-Party Video Systems
- ONVIF V2.6 Conformant Support
- 1-Year Warranty and support free

Product Specifications

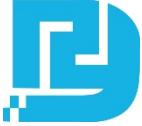| Model	RYD—NW731-NXP2	RYD-NW730-NXP2	RYD-NW630-NXP2
Image			
Lens	2.8/3.6/6/8mm option	2.8/3.6/6/8mm option	3.6/6/8mm option
Angle of View	2.8mm	2.8mm	3.6mm
Horizontal	86.3°	86.3°	67.4°
Vertical	64.7°	64.7°	50.6°
IR Working Distance	30m (98ft)	30m (98ft)	50m (164ft)
Low-Light Technology	18pcs Φ5 Standard LEDs	12pcs OSRAM IR LEDs	1pcs IR III Array LEDs
Power Consumption	1.8W(IR off)/2.5W(IR on)	1.0W(IR off)/1.5W(IR on)	2.0W(IR off)/2.5W(IR on)
Waterproof	Not Available	Not Available	Not Available
Product Size	6.26in(L)*6.26in(W)*3.22in(H)	6.26in(L)*6.26in(W)*3.22in(H)	5.0in(L)*5.0in(W)*3.54n(H)
Product Weight	0.49lb	0.49lb	0.77lb
Color Option	White smoke	White smoke	Half White smoke/half black
Construction	plastic	plastic	plastic

RYD Security Company Ltd

China Headquarters
Address: No.05, 5F, B90, Zhangkeng Second Zone, Baoan District, Shenzhen,China 518000, Tel: 86 755 2685 7580
USA Technical Partner
Address: 350 W 9th Avenue, Suite 106 Escondido, CA, 92025 USA, Tel:1 858 748 1600 ext. 333/334

Model	RYD—NW887-NXP2	RYD-NW871-NXP2	RYD-NW861-NXP2
Image			
Lens	6/8/12/16/25mm option	4/6/8/12/16/25mm option	4/6/8/12/16mm option
Angle of View	6mm	4mm	4mm
Horizontal	48°	71°	71°
Vertical	36°	53.3°	53.3°
IR Working Distance	80m (262ft)	70m (229ft)	60m (196ft)
Low-Light Technology	4pcs IR III Array LEDs	4pcs IR III LEDs	4pcs IR III Array LEDs
Power Consumption	3.6W(IR off)/4.4W(IR on)	3.6W(IR off)/4.4W(IR on)	3.60W(IR off)/4.4W(IR on)
Waterproof	IP66	IP67	IP66
Product Size	11.10in(L)*5.75in(W)*3.82in(H)	7.28in(L)*3.93in(W)*2.75in(H)	8.74in(L)*5.23in(W)*3.46n(H)
Product Weight	3.04lb	1.20lb	1.76lb
Color Option	White smoke/ black with MOQ:50pcs	White smoke/ black with MOQ:50pcs	White smoke/ black with MOQ:50pcs
Construction	aluminium alloy	aluminium alloy	aluminium alloy

Model	RYD—NW857-NXP2	RYD-NW858-NXP2	RYD-NW879-NXP2
Image			
Lens	3.6/4/6/8/12mm option	3.6/4/6/8/12mm option	6/8/12/16mm option
Angle of View	3.6mm	3.6mm	6mm
Horizontal	75°	75°	48°
Vertical	56.3°	56.3°	36°
IR Working Distance	50m (164ft)	60m (196ft)	70m (229ft)
Low-Light Technology	2pcs IR Array III LEDs	2pcs IR Array III LEDs	4pcs IR III LEDs
Power Consumption	1.6W(IR off)/2.1W(IR on)	1.6W(IR off)/2.1W(IR on)	3.6W(IR off)/4.4W(IR on)
Waterproof	IP66	IP66	IP66
Product Size	5.82in(L)*3.93in(W)*2.87in(H)	6.61in(L)*3.54in(W)*2.75in(H)	7.87in(L)*4.41in(W)*3.19in(H)
Product Weight	1.30lb	1.30lb	0.93lb
Color Option	White smoke/ black with MOQ:50pcs	White smoke/ black with MOQ:50pcs	White smoke
Construction	aluminium alloy	aluminium alloy	aluminium alloy

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Product Details

Professional Range

Powerful, affordable, this camera pack the most popular features and functionality of technology into a wide range of indoor and outdoor environmental, Mix and match the performance options and form factor you need for almost any lighting condition, environment, and application.

Camera

This Series cameras feature a remote zoom lens for wide angle and long range surveillance needs. Auto iris capability ensures the camera can be adjusted the sharpness when needed. Additionally, this Series features advanced color science, a mechanical IR cut filter, and advanced integrated adaptive IR illumination for increased sensitivity in low-light installations.

Video

This series cameras support up to two simultaneous video streams and a third service stream. The two streams can be compressed with efficient H.264 main profile. The streams can be configured to a variety of frame rates and variable bit rates to optimize image quality with bandwidth and storage efficiency

Security and Access

This series cameras feature simple motion detection algorithms allowing the camera to record or send an alarm when there is motion in selected zones or in an entire scene. Video mask

function can protect your privacy when you need

One administrator up to 4 viewers, multiple user access with password protection

Open and Integrated

This series cameras seamlessly connect to RYD video management systems. It integrate with major third-party video management systems through the RYD APK and other third-party software and systems through the open ONVIF V2.6 complaint Standard

Standard Web Interface

This Professional range cameras use a standard Web browser interface for easy remote setup and administration. Controls are optimized for convenient camera configuration for features including color, exposure, flicker control, and streaming.

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Technical Specifications

CAMERA

Imaging Device:

MPX	Sensor	Max. Resolution
2.0 MPX	1/2.8-inch	1920x1080(2.1MPX)

Imager Type:	CMOS
Imager Read out:	Progressive scan
Electronic Shutter Range:	1/50 ~ 1/100,000 sec
Dynamic Range:	48 dB
White Balance Range:	2,500° to 8,000°K
Digital Noise Reduction:	Yes (ON/OFF selectable)
Max. Illumination:	0.01 Lux /F1.4 (IR on)
Mechanical IR Cut Filter:	Yes (AUTO/MANUAL selectable)
IR Illumination:	Auto ON in night mode, or OFF
Lens:	3.6/4/6/8/12/16/25mm zoom lens with auto iris
Focus:	electronic focus

LENS

Lens Type:	Built-in;
Focal Length:	F/1.2, 3.6/4/6/8/12/16/25mm option
Focus:	electronic focus
Zoom:	Remote
Auto Iris Type:	Not Available

VIDEO

Video Streams:	Up to 2 simultaneous streams, plus service stream; the secondary stream is variable based on the setup of the primary stream
Video Overlay:	Camera name, time, date
Video Encoding:	efficient H.264 main profile
Bit Rate Control:	Constant bit rate (CBR), constrained variable bit rate (CVBR) with target range
Service Stream:	320 x 240 (0.1 MPX)
Window Blanking:	4 configurable windows

AUDIO

Streaming:	Dual-channel
Input:	Line in/terminal block
Encoding:	G.711 / G.7.26

ELECTRICAL

Network Port:	RJ-45 connector for 100Base-TX
Power Input:	PoE (IEEE 802.3af) or 12DC/2A power adaptor
Power Consumption:	<10.50 W
Local Storage:	Not available
Alarm	
Input:	1
Output:	1
Triggers:	Not Available

ENVIRONMENTAL

Operating Temperature:	−20° to 50°C (−4° to 122°F)
Storage Temperature:	−15° to 55°C (5° to 131°F)
Operating Humidity:	15% to 85%, RH noncondensing
Storage Humidity:	20% to 80% RH noncondensing

NETWORK

Supported Protocols:	IPv4, TCP/IP, UDP, HTTP, RTP/RTCP/RTSP, FTP, UPnP, DDNS, NTP, IGMP, ICMP
Users:	
Unicast:	1 administrator, up to 4 viewers
Multicast:	Unlimited users H.264
Security Access:	Multiple user access levels with password protection

INTEGRATION

Video Management:	RYD VMS, Third-party VMS through RYD APK and ONVIF V2.2
Mobile Application:	Integrated to android, blackberry, window system smart phone
Video Motion Detection:	Simple motion detection
Video Mask:	Simple video mask
Local Storage:	Video of motion detection, or alarm input to save to local NVR or server
Web Browser Support:	Microsoft® Internet Explorer® 8.0 and later

OPTIONAL ACCESSORIES

RYD IP camera tester:	Contact RYD Product Support for more information about the use of the RYD IP camera tester with cameras