

# 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

## Hi 2.0MP Series Network Cameras

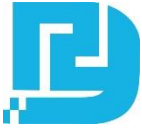
Luxury series

### Product Features

- Hi 3528 1/3 HDIS Sensor
- Up to 2.0 Megapixel(MPX) Resolution
- 2.8/3.6/6/8/12/16mm 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-Hi2.0	RYD-NW630-Hi2.0	RYD-NWAQ-Hi2.0	RYD-NWAK-Hi2.0
Image				
Lens	2.8/3.6/6/8mm option	3.6/6/8/12mm option	3.6/6mm option	2.8-12mm only
Angle of View	2.8mm	3.6mm	3.6mm	2.8mm(wide)- 12mm(telephoto)
Horizontal	86.3°	67.4°	67.4°	86.3° 22.1°
Vertical	64.7°	50.6°	55.6°	64.7° 16.6°
IR Working Distance	30m (98ft)	50m (164ft)	Not Available	25m (65.6ft)
Low-Light Technology	18pcs Φ5 Standard LEDs	1pcs IR III Array LEDs	Not Available	21 Standard LEDs
Power Consumption	1.8W(IR off)/2.5W(IR on)	2.0W(IR off)/2.5W(IR on)	0.9W	2W(IR off)/2.5W(IR on)
Waterproof	Not Available	Not Available	Not Available	Not Available
Product Size	6.26in(L)*6.26in(W)*3.22in(H)	5.04in(L)*5.04in(W)*3.54in(H)	4.4in x 3.42in	0.61lb
Product Weight	0.49lb	0.71lb	0.37lb	ABS Plastic
Color Option	White smoke	Black	ABS Plastic	white
Construction	plastic	plastic	White	plastic



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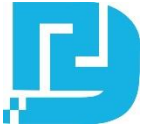
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Model	RYD-NWVD-Hi2	RYD-NWVH-Hi2.0	RYD-NWVF-Hi2.0
Image			
Lens	2.8~12mm DC iris vertical zoom	3.6/6mm option	2.8-12mm only
Angle of View	2.8mm(wide)-12mm(telephoto)	3.6mm/F1.2.	8mm(wide)-12mm(telephoto)
Horizontal	86.3° 22.1°	67.4°	86.3° 22.1°
Vertical	64.7° 16.6°	55.6°	64.7° 16.6°
IR Working Distance	30m(98ft)	30m (98ft)	40m(131ft)
Low-Light Technology	30pcs Standard Array LEDs	2pcs mini IR array LED	3pcs mini IR array LED
Power Consumption	4W	3.0W(IR off)/3.5W(IR on)	4.5W(IR off)/5.0W(IR on)
Waterproof	IK10, IP66	IP66	IP66
Product Size	5.70x4.33	3.66in x 2.54in	3.66in x 2.54in
Product Weight	0.85kg	0.37lb	1.22lb
Construction	aluminum	Metal	Metal
Color Option	White	White	White

Model	RYD-NWAO-Hi2.0	RYD-NWAM-Hi2.0	RYD-NWAX-Hi2.0	RYD-NWAV-Hi2.0
Image				
Lens	3.6/6/8mm option	4/6/8/12mm option	3.6/6mm option	4/6/8/12/16mm option
Angle of View	3.6mm/F1.2(wide)	4mm/F1.2(wide)	3.6mm/F1.2(wide)	4mm/F1.2(wide)
Horizontal	67.4°	62°	67.4°	62°
Vertical	50.6°	46.5°	50.6°	46.5°
IR Working Distance	30m (98ft)	60m (197ft)	40m (131ft)	60m (197ft)
Low-Light Technology	2 mini Array LEDs	2pcs Super Power IR Array LEDs	3pcs mini Array LEDs	2pcs Super Power IR Array LEDs
Power Consumption	3W(IR off)/3.5W(IR on)	6.5W(IR off)/7W(IR on)	4.5W(IR off)/5.0W(IR on)	6.5W(IR off)/7W(IR on)
Water Resistance	IP66	IP66	IP66	IP66
Product Size	6.8in(L)*2.8in(W)*2.7in(H)	12.9in(L)*4.4in(W)*3.8in(H)	8.1in(L)*3.5in(W)*3.4in(H)	9.8in(L)*7.7in(W)*4.7in(H)
Product Weight	0.77lb	2.0lb	0.91lb	1.1lb
Color Option	Gray, White	White, Dark Blue	Dark Blue, White	Dark Blue, White



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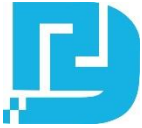
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Model	RYD—NWRJ-Hi2	RYD—NRAW-Hi2	RYD—NWRG-Hi2	RYD—NWRD-Hi2
Image				
Lens	2.8-12mm DC iris	6/8/12mm CS lens	6/8/12mm	4/6/8/12mm option
Angle of View	8mm (wide) -12mm (telephoto)	6mm	6mm	4mm
Horizontal	86.3° 22.1°	42.3°	42.3°	62°
Vertical	64.7° 16.6°	31.7°	31.7°	46.5°
IR Working Distance	50m(163ft)	60m(198ft)	100m(330ft)	60m(198ft)
Low-Light Technology	4 pcs high power Array LEDs	2 pcs high power Array LEDs	4 pcs high power Array LEDs	2 pcs high power Array LEDs
Power Consumption	7W	8.5W	Not Available now	Not Available now
Water Resistance	IP66	IP66	IP66	IP66
Product Size	11.25inx3.37inx3.0in	10.7inx4.7inx4.0in		
Product Weight	0.77kg	0.8kg		
Color Option	white	Black	White	White

Model	RYD—NW858-Hi2.0	RYD—NW879-Hi2.0	RYD—NW861-Hi2.0
Image			
Lens	3.6/6/8mm option	3.6/6/8mm option	4/6/8/12/16mm option
Angle of View	3.6mm	3.6mm	4mm
Horizontal	67.4°	67.4°	71°
Vertical	50.6°	50.6°	53.3°
IR Working Distance	50m (163ft)	70m (229ft)	60m (196ft)
Low-Light Technology	2pcs IR III Array LEDs	4pcs IR III LEDs	4pcs IR III Array LEDs
Power Consumption	1.8W(IR off)/2.5W(IR on)	3.6W(IR off)/4.4W(IR on)	3.60W(IR off)/4.4W(IR on)
Waterproof	IP66	IP66	IP66
Product Size	6.610in(L)*3.54in(W)*2.76in(H)	7.87in(L)*4.41in(W)*3.19in(H)	8.74in(L)*5.23in(W)*3.46in(H)
Product Weight	0.930lb	0.930lb	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



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## Product Details

### Camera

This economic series cameras feature fixed lens for deferent angle and deferent range surveillance needs. Electronic focusing lens 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 economic 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 economic 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 economic 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 economic 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.

## Technical Specifications

### CAMERA

Imaging Device:

MPX	Sensor	Max. Resolution
2.0MPX	1/3-inch	1920x1080(2.0MPX)

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: 0.02 Lux /F1.4 (IR on)

Mechanical IR Cut Filter: Yes (AUTO/MANUAL selectable)

IR Illumination: Auto ON in night mode, or OFF

Lens: 3.6/4/6/8/12/16mm option

Focus: electronic focus

### LENS

Lens Type: Built-in

Focal Length: F/1.2, 3.6/6/8/12/16mm option



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Focus:	electronic focus	Third-party VMS through RYD APK and ONVIF V2.2
Zoom:	Not available	Mobile Application: Integrated to android, blackberry, window system
Auto Iris Type:	Not available	smart phone
<b>VIDEO</b>		
Video Streams:	Up to 2 simultaneous streams, plus service stream; the secondary stream is variable based on the setup of the primary stream	Video Motion Detection: Simple motion detection
Video Overlay:	Camera name, time, date	Video Mask: Simple video mask
Video Encoding:	efficient H.264 main profile	Local Storage: Video of motion detection, or alarm input to save to local NVR or server
Bit Rate Control:	Constant bit rate (CBR), constrained variable bit rate (CVBR) with target range	Web Browser Support: Microsoft® Internet Explorer® 8.0 and later
Service Stream:	320 x 240 (0.1 MPX)	<b>OPTIONAL ACCESSORIES</b>
Window Blanking:	4 configurable windows	RYD IP camera tester: Contact RYD Product Support for more information about the use of the RYD IP camera tester with cameras

## AUDIO

Streaming:	Dual-channel
Input:	Line in/terminal block
Encoding:	G.711 /G.726

## ELECTRICAL

Network Port:	RJ-45 connector for 100Base-TX
Power Input:	PoE (IEEE 802.3af) or 12DC 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
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### Users:

Unicast:	1 administrator, up to 4 viewers
Multicast:	Unlimited users efficient H.264 main profile
Security Access:	Multiple user access levels with password protection

## INTEGRATION

Video Management:	RYD VMS,
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