

## I100 Series Surveillance Kits

### NVR and Camera Kits

#### NVR

##### Video Input and Transmission

- Connectable to the third-party network cameras
- Up to 8 network cameras can be connected

##### Compression and Recording

- H.264+ compression effectively reduces the storage space and costs by up to 50%
- Full channel recording at up to 4 MP resolution

##### HD Video Output

- HDMI/VGA output at 1080p resolution

##### Storage and Playback

- Up to 2-ch synchronous playback at 4 MP resolution or 4-ch at 1080p resolution
- 1 SATA hard disks can be connected with 6TB capacity
- HDD quota and group modes; different capacity can be assigned to different channel

##### Smart Function

- Supports multiple VCA(Video Content Analytics) events detection
- Smart search for the selected area in the video; and smart playback to improve the playback efficiency
- One-key operation: automatically search, modify and add IP cameras after device is activated

##### Network & Ethernet Access

- Hik-Connect and DyDDNS for easy network management
- 100 Mbps Ethernet network interface
- 4/8 independent 100 Mbps built-in switch network interfaces

#### CAMERAS

- 1/2.8" progressive scan CMOS
- Up to 2.0 megapixel
- 2.8 mm fixed focal lens
- Up to 30 m IR range
- Dual stream
- Digital WDR (Wide Dynamic Range)
- 3D DNR (Digital Noise Reduction)
- PoE (Power over Ethernet)
- IP67
- Mobile monitoring via Hik-Connect or iVMS-4500



IPC-B120



IPC-D120



NVR-100 series

<b>Camera</b>	
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.01 Lux @(F1.2, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s, support slow shutter
Lens	2.8 mm @F2.0, horizontal field of view 105°,
Lens Mount	M12
Day & Night	IR cut filter with auto switch
2-Axis Adjustment	Pan: 0° to 355°, tilt: 0° to 70°
DNR(Digital Noise Reduction)	3D DNR
WDR (Wide Dynamic Range)	Digital WDR
<b>Compression Standard</b>	
Video Compression	Main stream: H.264+/H.264 Sub stream: H.264/MJPEG
H.264 Type	Baseline profile/main profile
Video Bit Rate	32 Kbps to 8 Mbps
<b>Image</b>	
Max. Resolution	1920 × 1080
Main Stream Max. Frame Rate	50Hz: 25fps @(1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps @(1920 × 1080, 1280 × 960, 1280 × 720)
Sub-stream Max. Frame Rate	50Hz: 25fps @(704 × 576, 640 × 480, 352 × 288, 320 × 240) 60Hz: 30fps @(704 × 480, 640 × 480, 352 × 240, 320 × 240)
Image Settings	Brightness, saturation, contrast, sharpness are adjustable via web browser or client software
Day/Night Switch	Support auto, scheduled
Others	Mirror, BLC (area configurable), region of interest (support 1 fixed region)
<b>Network</b>	
Detection	Motion detection
Alarms	Video tampering, network disconnected, IP address conflicted
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour
Standard	ONVIF (PROFILE S, PROFILE G), CGI, ISAPI
General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
<b>Interface</b>	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Reset	Support
<b>General</b>	
Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F), humidity: 95% or less (non-condensing)
Power Supply	12 V DC ± 25%, PoE (802.3af)
Power Consumption	12 VDC, 0.4 A, Max. 4.5 W PoE (802.3af, 37 V to 57 V), 0.1 A to 0.16 A, Max. 6 W
Protection Level	IP67, IK10
IR Range	Up to 30 m
Dimensions	Φ 111 mm × 82 mm (4.4" × 3.2")
Weight	500 g (1.1 lb.)

Model		NVR-104-A/4P	NVR-108-A/8P	
Video/Audio input	IP video input	4-ch	8-ch	
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	40 Mbps	60 Mbps	
	Outgoing bandwidth	40 Mbps		
	Remote connection	64		
Video/Audio output	Recording resolution	4 MP/3 MP/1080p/1.3 MP/UXGA/720p/VGA/4CIF /DCIF/2CIF/CIF/QCIF		
	Frame rate	Main stream: 50 fps (P)/60 fps (N)		
		Sub-stream: 50 fps (P)/60 fps (N)		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
Audio output	1-ch, RCA (Linear, 1kΩ)			
Decoding	Live view/Playback resolution	4 MP/3 MP/1080p/1.3 MP /UXGA/720p/VGA/4CIF /DCIF/2CIF/CIF/QCIF		
	Capability	2-ch@4 MP, 4-ch@1080p		
Hard disk	SATA	1 SATA interface for 1 HDD		
	Capacity	Up to 6TB for each disk		
Network management	Network protocols	TCP/IP, DHCP, Hik-Connect, DDNS, NTP, SADP, SMTP, UPnP™		
External interface	Network interface	1 RJ-45 10/100 Mbps self-adaptive Ethernet interface		
	USB interface	2 × USB 2.0		
PoE (/4P,/8P model)	Interface	4 independent 100 Mbps PoE network interfaces	8 independent 100 Mbps PoE network interfaces	
	Max. Power	50 W	80 W	
	Supported standard	AF and AT		
General	Power supply	48 VDC		
	Consumption (without hard disk and PoE)	≤ 18 W		
	Working temperature	-10 °C to +55 °C (14 °F to 131 °F)		
	Working humidity	10 % to 90 %		
	Dimensions (W × D × H)	200*200*44.5	285 × 215 × 48 mm	
	Weight (without hard disk)	≤ 1 kg (2.2 lb)		

Each Hiwatch series I100 series Surveillance Kit features a Network Video Recorder (NVR) bundled with bullet or dome network cameras.

Kits are available with four channel (includes four cameras) or eight channel (includes six cameras) NVRs.

Each NVR features 1080p output.

The cameras' 2 MP progressive scan CMOS sensors offer resolutions up to 1920 x 1080.

Includes 1 TB or 2 TB HDD.

#### Available Models:

I104-A/1T: (1) NVR-104-A/4P NVR w/1 TB HDD  
(4) IPC-B120 mini bullet Cameras

I104-B/1T: (1) NVR-104-A/4P NVR w/1 TB HDD  
(4) IPC-D120 dome Cameras

I108-A/2T: (1) NVR-108-A/8P NVR w/2 TB HDD  
(6) IPC-B120 mini bullet Cameras

I108-B/2T: (1) NVR-108-A/8P NVR w/2 TB HDD  
(6) IPC-D120 dome Cameras