# HANBANG®

Hanbang Technology Corp.,LTD

# Introduction

Beijing Hanbang Technology Co., Ltd., one of the first enterprises entering into digital video surveillance industry, has been focusing on R&D of products and technology of digital video surveillance field. While providing product and technical support, it also provides overall solution for the industrial system; it has successfully provided system implementation and service supports for several industries.

Hanbang now owns 2 R&D centers respectively in Beijing and Shenzhen. After years of technology accumulation in video image processing field, Hanbang Technology has successfully developed a number of digital surveillance product series and formed a number of digital core products such as audio and video compression cards, embedded DVRs, network video servers, analog cameras and IP cameras; The product line covers a full range of video surveillance system. It has become one of the key domestic suppliers of video compression cards and embedded digital video recorders, and the products have been supplied to many industries.

To meet market demand with better service, the company sets 6 zones including North China, Central China, East China, South China, Northeast China and Southwest China, and the sales and service network as well as nearly 30 offices cover the whole China. At the same time the company positively develops the overseas market, and its products have been sold to India, Turkey, South Africa, Poland, Russia, Brazil, UK and many other countries and regions.

Hanbang Technology is National High-tech Enterprise, vice president member of Beijing High-tech Enterprises Association, also the vice president member of China Security Industry Association. It has passed certifications of ISO-9001 quality system and ISO-1400 environmental system, and its products have passed certifications of FCC/CE, ROSH, CCC and others. Hanbang Technology with stably progressing is universally recognized both by insiders and outsiders of the industry. It is shortlisted for China security top 10 brands successively for years and shortlisted for safe city recommended brands several times; it was shortlisted for 2009 Forbes China Up& Comers and shortlisted for pilot innovative enterprises at national innovation model zhongguancun area; besides it is one of 2010 national torch program key high-tech enterprises, and its embedded DVRs win the title of National Key New Product.

Based on technology and being market-oriented, Hanbang expects to develop together with China security industry.

# c🌐ntents

# HANBANG

# HB7000X3-HA
# Entry Level 960H DVR

## Features:

▸ Support Full 960H, 4/8/16channel same designed,unique HDD installation method

▸ Support full channel record with parameter adjustable and instant playback

▸ Support Digital Zoom on preview and playback

▸ Support 4 mask area settings, support 4 special interested area

▸ Support Full screen/preview/section video mask

▸ Support motion/schedule/manual/abnormal(including disk error, video loss,video mask, motion detect, sensor detect etc.) alarm

▸ Support buzz and email sending while alarming

▸ Support motion detect and alarm linkage to multiple channels record simultaneously

▸ Support search and backup video or picture by Time/Event inquiry

▸ Support controls R/W and analyze disk error information

▸ Support 3G, DHCP,DDNS or PPPOE and auto redial

▸ Support UPNP, FTP, NTP,DST

▸ Support preview/playback/download remotely by CMS,Webpage (Chrome, IE,firefox, Safari,etc.) or mobile apps etc.) or mobile apps

## Rear Panel:



182.10mm

293.44mm

52.28mm
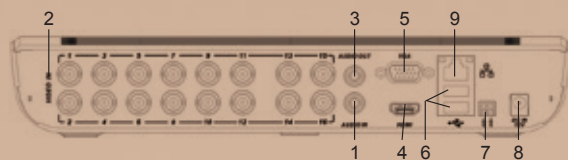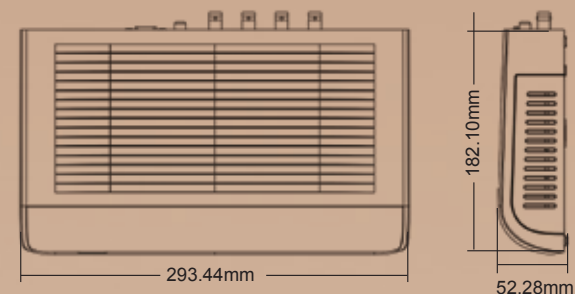
1.Audio In      2.Video In          3.Audio Out
4.VGA           5.Network Interface  6.USB
7.RS485         8.DC IN             9.Ethernet

## Product Parameters

| Model | | 7004X3-HA | 7008X3-HA | 7016X3-HA |
|---|---|---|---|---|
| Housing | | 1U | | |
| Operation System | | Embedded LINUX | | |
| Video | Compression | H.264 | | |
| | Input | 4*BNC real time | 8*BNC real time | 16*BNC real time |
| | Ouput | HDMI+VGA | | |
| | Dual stream | Yes | | |
| Audio | Compression | G.771A | | |
| | Input | 1*RCA | | |
| | Ouput | 1*RCA | | |
| Recoding | Resolution | 2ch 960H+2ch CIF OR 960H @62.5fps[P] /75fps[N]; OR D1:77FPS | 2ch 960H+6ch CIF OR 960H @87.5fps[P] /105fps[N]; OR D1:102FPS | 2ch 960H+14ch CIF OR 960H @137.5fps[P] /165fps[N] |
| | Recoding mode | Manual, Schedule, Motion, Alarm | | |
| | Recoding Interval | Pre-record: 5-30 sec, Post-record: 0-180 sec | | |
| Playback | channel | 4ch | 8ch | 16ch |
| | Search Mode | Time, Date, Record Mode, Smart search | | |
| | Privacy Masking | 4 zones Maximum | | |
| Network | Web | IE, Chrome, Firefox, Safari | | |
| | CMS | Free and professional , support max 50 pcs DVR management | | |
| | Mobile | support (IPhone, Andorid, Ipad) | | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail /support snapshot | | |
| | Backup | USB; Remote | | |
| | Storage | 1HDD( Max 4TB) | | |
| External Interface | Network Interface | 1 RJ-45 10/100M adaptive Ethernet Interface | | |
| | USB Interface | 2 | | |
| | PTZ | N/A | | 1 RS 485 |
| General | Power supply | DC 12V | | |
| | Power Consumption | 24W | | |
| | Working Environment | -10°C~+55°C | | |

# HB7100X3-LH
# Entry Level 960H/D1 DVR

## Features:

▸ Support full channel record with parameter adjustable and instant playback
▸ Support Digital Zoom on preview and playback
▸ Support 4 mask area settings,Support  4 special interested area
▸ Support Full screen/preview/section video mask
▸ Support motion/schedule/manual/abnormal(including disk error, video loss,video
▸ Support mask, motion detect, sensor detect etc.) alarm
▸ Support buzz and email sending while alarming
▸ Support motion detect and alarm linkage to multiple channels record simultaneously
▸ Support search and backup video or picture by Time/Event inquiry
▸ Support DHCP,DDNS,3G or PPPOE and auto redial
▸ Support NTP,DST
▸ Support UPNP,FTP
▸ Support preview/playback/download remotely by CMS, Webpage(Chrome,IE,firefox,Safari,etc.) or mobile apps
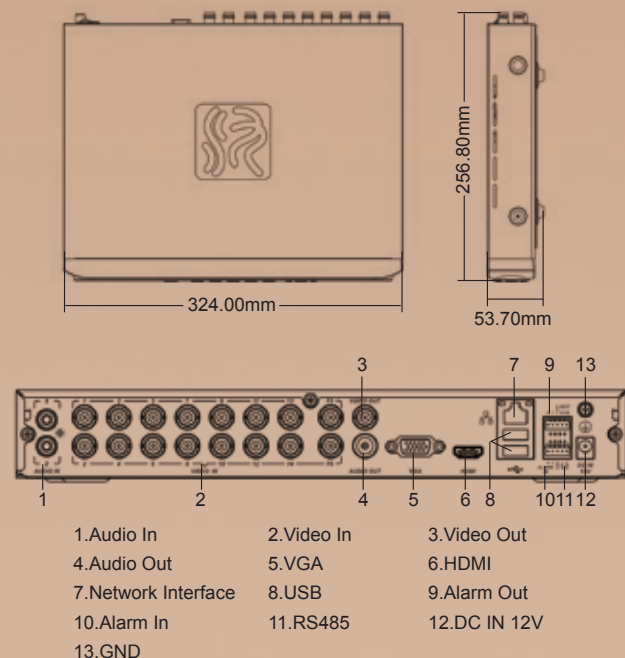


## Product Parameters

| Model | | 7104X3-LH | 7108X3-LH | 7116X3-LH |
|---|---|---|---|---|
| Housing | | mini 1U | | 1U |
| Operation System | | Embedded LINUX | | |
| Video | Compression | H.264 | | |
| | Input | 4*BNC | 8*BNC | 16*BNC |
| | Ouput | HDMI+VGA +CVBS | HDMI+VGA +CVBS | HDMI+VGA +CVBS |
| Audio | Compression | G.771A | | |
| | Input | 2*RCA | 2*RCA | 2*RCA |
| | Ouput | 1*RCA | 1*RCA | 1*RCA |
| | Bidirectional Talk | 3.5mm MIC Input Interface | | |
| Alarm | Input | 4ch | 4ch | 4ch |
| | Output | 1ch | 1ch | 1ch |
| Recoding | Resolution | 4*960H , PAL 100FPS / NTSC 120FPS | 8*D1,  PAL 200FPS / NTSC 240FPS | 16*D1, PAL 400 FPS / NTSC 480FPS |
| | Recoding mode | Manual, Schedule, Motion, Alarm | | |
| | Recoding Interval | Pre-record: 5-30 sec, Post-record: 0-180 sec | | |
| Playback | channel | 4ch real time | | |
| | Search Mode | Time,Date,Record Mode | | |
| | Privacy Masking | 4 zones Maximum | | |
| Network | Web | IE, Chrome, Firefox, Safari | | |
| | CMS | Free and professional , support max 50 pcs DVR management | | |
| | Mobile | Iphone, Ipad, Android | | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail / Support snapshot | | |
| Backup | | USB/ Network | | |
| Storage | | 1HDD( Max 4TB for each) | | |
| External Interface | Network Interface | 1 RJ-45 10/100M adaptive Ethernet Interface | | |
| | IR extension | ✓ | | |
| | USB Interface | 2 | | |
| | PTZ | 1 RS 485 | | |
| General | Power supply | DC 12V | | |
| | Power Consumption | 24W | | |
| | Working temperature | -10°C~+55°C | | |

## Rear Panel:



256.80mm

324.00mm

53.70mm

1.Audio In
2.Video In
3.Video Out
4.Audio Out
5.VGA
6.HDMI
7.Network Interface
8.USB
9.Alarm Out
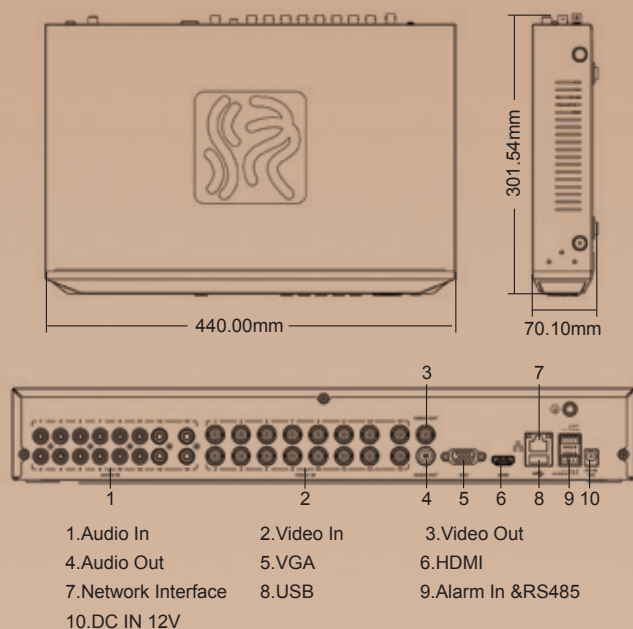10.Alarm In
11.RS485
12.DC IN 12V
13.GND

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# HB7000X3
# Entry Level CIF DVR

## Features:

▸ Support full channel record with parameter adjustable and instant playback
▸ Support Digital Zoom on preview and playback
▸ Support 4 mask area settings,Support 4 special interested area Support Full screen/preview/section video mask
▸ Support motion/schedule/manual/abnormal(including disk error, video loss,video mask, motion detect, sensor detect etc.) alarm
▸ Support buzz and email sending while alarming
▸ Support motion detect and alarm linkage to multiple channels record simultaneously;
▸ Support search and backup video or picture by Time/Event inquiry
▸ Support HDD group management, controls R/W and analyze disk error information
▸ SupportDHCP,DDNS,3G or PPPOE and auto redial
▸ Support NTP,DST
▸ Support UPNP,FTP
▸ Support preview/playback/download remotely by CMS, Webpage(Chrome,IE,firefox,etc.) or mobile apps

## Rear Panel:

301.54mm
440.00mm
70.10mm

3    7

1    2    4  5  6  8  9 10

1.Audio In          2.Video In          3.Video Out
4.Audio Out         5.VGA               6.HDMI
7.Network Interface 8.USB               9.Alarm In &RS485
10.DC IN 12V

## Product Parameters

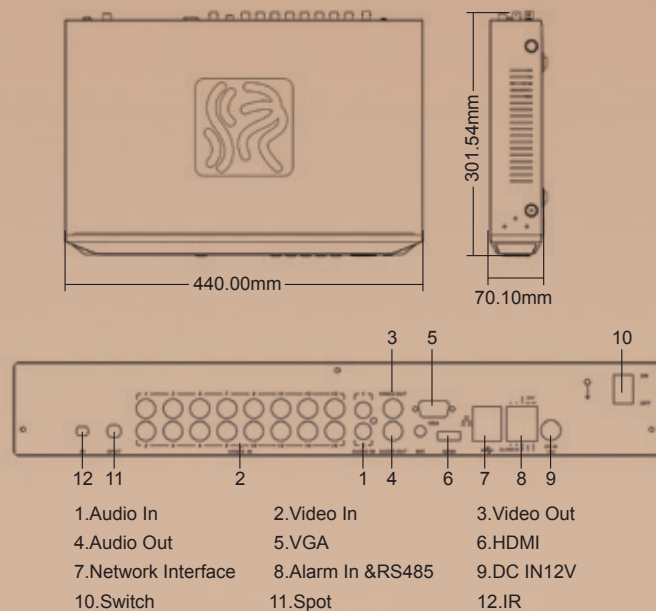| | | |
|---|---|---|
| Model | | 7016X3-LH |
| Housing | | 1.5U |
| Operation System | | Embedded LINUX |
| Video | Compression | H.264 |
| | Input | 16*BNC |
| | Ouput | HDMI+VGA +CVBS |
| | Dual stream | Yes |
| Audio | Compression | G.771A |
| | Input | 16ch |
| | Ouput | 1*RCA |
| | Bidirectional Talk | ✓ |
| Alarm | Input | 4ch |
| | Output | 1ch |
| Recoding | Resolution | 4ch D1+12ch CIF Real time |
| | Recoding mode | Manual, Schedule, Motion, Alarm |
| | Recoding Interval | Pre-record: 5-30 sec, Post-record: 0-180 sec |
| Playback | channel | 16*CIF real time |
| | Search Mode | Time,Date,Record Mode |
| | Privacy Masking | 4 zones Maximum |
| Network | Web | IE, Chrome, Firefox, Safari |
| | CMS | Free and professional , support max 50 pcs DVR management |
| | Mobile | Iphone, Ipad, Android |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail / Support snapshot |
| Backup | | USB/ Network |
| Storage | | 2HDD(MAX 4TB for each) |
| External Interface | USB Interface | 2 |
| | Network Interface | 1 RJ-45 10/100M adaptive Ethernet Interface |
| | PTZ | 1 RS 485 |
| General | Power supply | DC 12V |
| | Power Consumption | 24W |
| | Working temperature | -10°C~+55°C |

# HB7200X3
# Middel Level 960H DVR

## Features:

▸ Support full channel record with parameter adjustable and instant playback

▸ Support Digital Zoom on preview and playback

▸ Support 4 mask area settings,Support 4 special interested area

▸ Support Full screen/preview/section video mask

▸ Support motion/schedule/manual/abnormal(including disk error, video loss,video mask, motion detect, sensor detect etc.) alarm

▸ Support buzz and email sending while alarming

▸ Support motion detect and alarm linkage to multiple channels record simultaneously

▸ Support search and backup video or picture by Time/Event inquiry

▸ Support HDD group management, controls R/W and analyze disk error information

▸ Support DHCP,DDNS,3G or PPPOE and auto redial

▸ Support NTP,DST

▸ Support UPNP,FTP

▸ Support preview/playback/download remotely by CMS, Webpage(Chrome, IE,firefox,etc.) or mobile apps

## Product Parameters

| Model | | 7204X3 | 7208X3 | 7216X3 | 7232X3 |
|---|---|---|---|---|---|
| Housing | | 1.5U | | | |
| Operation System | | Embedded LINUX | | | |
| Video | Compression | H.264 | | | |
| | Input | 4*BNC | 8*BNC | 16*BNC | 32*BNC |
| | Ouput | HDMI+VGA+CVBS | | | |
| Audio | Compression | G.771A | | | |
| | Input | 2*RCA | | | 4*RCA |
| | Ouput | 1*RCA | | | |
| | Bidirectional Talk | 3.5mm MIC Input Interface | | | |
| Alarm | Input | 4ch | | | |
| | Output | 1ch | | | |
| Recoding | Resolution | 4ch 960H Real time | 8ch 960H Real time | 16ch 960H Real time | 32 960H Real time |
| | Recoding mode | Manual, Schedule, Motion, Alarm | | | |
| | Recoding Interval | Pre-record: 5-30 sec, Post-record: 0-180 sec | | | |
| Playback | channel | 4ch real time | 8ch real time | 16ch real time | |
| | Search Mode | Time,Date,Record Mode | | | |
| | Privacy Masking | 4 zones Maximum | | | |
| Network | Web | IE, Chrome, Firefox, Safari | | | |
| | CMS | Free and professional , support max 50 pcs DVR management | | | |
| | Mobile | Iphone, Ipad, Android | | | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail / Support snapshot | | | |
| Backup | | USB/ Network | | | |
| Storage | | 2HDD(Max 4TB for each) | | | 4HDD( Max 4TB each) |
| External Interface | USB Interface | 2 | | | |
| | Network Interface | 1 RJ-45 10/100M adaptive Ethernet Interface | 1 RJ-45 10/100M/1000M adaptive Ethernet Interface | | 1 RJ-45 10/100M adaptive Ethernet Interface |
| | IR extension | × | ✓ | | |
| | PTZ | 1 RS 485 | | | |
| General | Power supply | DC 12V | | | |
| | Power Consumption | 40W | | | 90W |
| | Working temperature | -10°C~+55°C | | | |

## Rear Panel:

301.54mm

440.00mm

70.10mm

3  5  10

12  11  2  1  4  6  7  8  9

1.Audio In
2.Video In
3.Video Out
4.Audio Out
5.VGA
6.HDMI
7.Network Interface
8.Alarm In &RS485
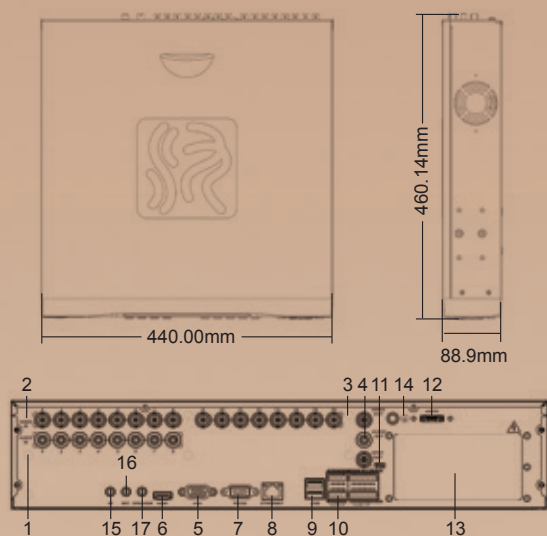9.DC IN12V
10.Switch
11.Spot
12.IR

# HANBANG

# HB8200X3
# Professional Level 960H DVR

## Features:

▶ Support full channel record with parameter adjustable and instant playback
▶ Support Digital Zoom on preview and playback
▶ Support 4 mask area settings, Support 4 special interested area
▶ Support Full screen/preview/section video mask
▶ Support motion/schedule/manual/abnormal(including disk error, video loss,video mask, motion detect, sensor detect etc.) alarm
▶ Support buzz and email sending while alarming
▶ Support motion detect and alarm linkage to multiple channels record simultaneously
▶ Support search and backup video or picture by Time/Event inquiry
▶ Support HDD group management, controls R/W and analyze disk error information
▶ Support DHCP,DDNS,3G or PPPOE and auto redial
▶ Support NTP,DST
▶ Support UPNP,FTP
▶ Support preview/playback/download remotely by CMS, Webpage(Chrome,IE,firefox,Safari,etc.) or mobile apps

## Rear Panel:

460.14mm

440.00mm

88.9mm

2
3 4 11 14 12
16
1  15 17 6  5   7   8   9 10            13

| | | | |
|---|---|---|---|
| 1.Audio In | 2.Video In | 3.Video Out | 4.Audio Out |
| 5.VGA | 6.HDMI | 7.RS232 | 8.Ethernet |
| 9.USB | 10.Alarm In &RS485 | 11.Spot Out | 12.eSATA |
| 13.Power In | 14.GND | 15.IR | 16.Mic |
| 17.Speaker | | | |

## Product Parameters

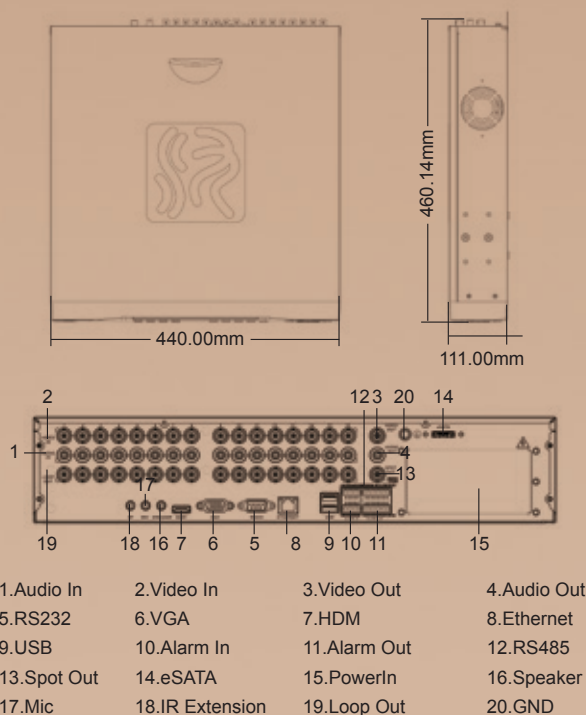| | Model | HB8208X3 | HB8216X3 |
|---|---|---|---|
| | Housing | 2U | |
| | Operation System | Embedded LINUX | |
| Video | Compression | H.264 | |
| | Input | 8*BNC | 16*BNC |
| | Ouput | HDMI+VGA+ CVBS+SPOT | HDMI+VGA+ CVBS+SPOT |
| | Dual stream | ✓ | |
| Audio | Compression | G.771A | |
| | Input | 4CH | 8CH |
| | Ouput | 1CH BNC | |
| | Bidirectional Talk | 3.5mm MIC Input Interface | |
| Alarm | Input | 8ch | 16ch |
| | Output | 4ch | |
| Recoding | Resolution | 8ch 960H Real time | 16ch 960H Realtime |
| | Recoding mode | Manual, Schedule, Motion, Alarm | |
| | Recoding Interval | Pre-record: 5-30 sec, Post-record: 0-180 sec | |
| Playback | channel | 8ch real time | 16ch real time |
| | Search Mode | Time,Date,Record Mode | |
| | Privacy Masking | 4 zones Maximum | |
| Network | Web | IE, Chrome, Firefox, Safari | |
| | CMS | Free and professional , support max 50 pcs DVR management | |
| | Mobile | Iphone, Ipad, Android | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail / Support snapshot | |
| | Backup | USB/ CD&DVD-RW / eSATA/ Network | |
| | Storage | 8HDD(Max 4TB for each) | |
| External Interface | USB Interface | 2 | |
| | Network Interface | 1 RJ-45 10/100M/1000M adaptive Ethernet Interface | |
| | IR extension | ✓ | |
| | eSTAT | 2 | |
| | PTZ | 1 RS-485, 1 RS232 | |
| General | Power supply | AC  220/ 110V | |
| | Working temperature | -10°C~+55°C | |

# HB8600X3
# Professional 960H DVR

## Features:

▸ Support full channel record with parameter adjustable and instant playback
▸ Support Digital Zoom on preview and playback
▸ Support Mask area settings,Support 4 special interested area
▸ Support Full screen/preview/section video mask
▸ Support motion/schedule/manual/abnormal(including disk error, video loss,video mask, motion detect, sensor detect etc.) alarm
▸ Support buzz and email sending while alarming
▸ Support motion detect and alarm linkage to multiple channels record simultaneously
▸ Support search and backup video or picture by Time/Event inquiry
▸ Support HDD group management, controls R/W and analyze disk error information
▸ Support DHCP,DDNS,3G or PPPOE and auto redial
▸ Support NTP,DST
▸ Support UPNP,FTP
▸ Support preview/playback/download remotely by CMS, Webpage(Chrome,IE,firefox,Safari,etc.) or mobile apps

## Rear Panel:

460.14mm
440.00mm
111.00mm

| | | | |
|---|---|---|---|
| 1.Audio In | 2.Video In | 3.Video Out | 4.Audio Out |
| 5.RS232 | 6.VGA | 7.HDM | 8.Ethernet |
| 9.USB | 10.Alarm In | 11.Alarm Out | 12.RS485 |
| 13.Spot Out | 14.eSATA | 15.PowerIn | 16.Speaker |
| 17.Mic | 18.IR Extension | 19.Loop Out | 20.GND |

## Product Parameters

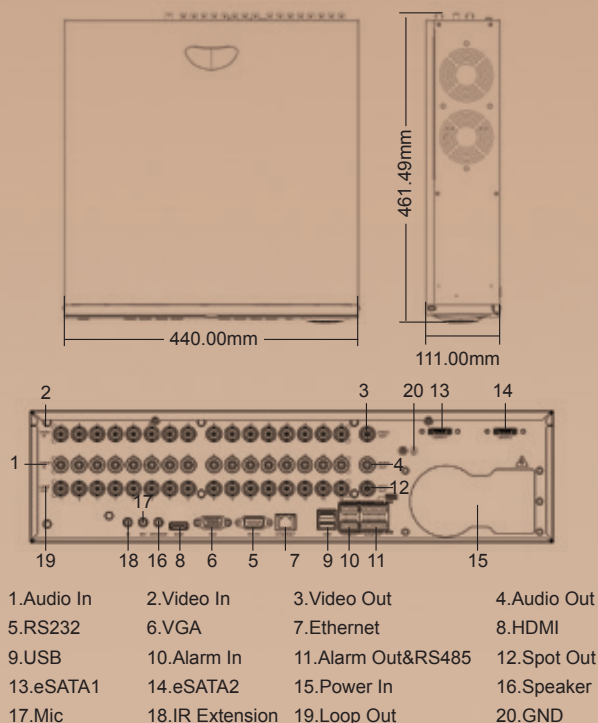| Model | | HB8608X3 | HB8616X3 |
|---|---|---|---|
| Housing | | 2U | |
| Operation System | | Embedded LINUX | |
| Video | Compression | H.264 | |
| | Input | 8ch BNC | 16ch BNC |
| | Ouput | 1 BNC, 1 VGA,1 HDMI,1 SPOT, 4/8/16 Loop | |
| | Dual stream | ✓ | |
| Audio | Compression | G.771A | |
| | Input | 8ch BNC | 16ch BNC |
| | Ouput | 1CH BNC | |
| | Bidirectional Talk | 3.5mm MIC Input Interface | |
| Alarm | Input | 8ch | 16ch |
| | Output | 4ch | |
| Recoding | Resolution | 8ch 960H Real time | 16ch 960H Real time |
| | Recoding mode | Manual, Schedule, Motion, Alarm | |
| | Recoding Interval | Pre-record: 5-30 sec, Post-record: 0-180 sec | |
| Playback | channel | 8ch real time | 16ch real time |
| | Search Mode | Time, Date, Record Mode, Smart search | |
| | Privacy Masking | 4 zones Maximum | |
| Network | Web | IE, Chrome, Firefox, Safari | |
| | CMS | Free and professional , support max 50 pcs DVR management | |
| | Mobile | support (IPhone, Andorid, Ipad) | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail /support snapshot | |
| Backup | | USB/CD&DVD-RW/eSATA/Network | |
| HDD | | 8 HDD(Max 4TB for each)  2 eSATA(Front 1,Back 1) | |
| External Interface | Network Interface | 1 RJ-45 10/100M/1000M adaptive Ethernet Interface | |
| | IR extension | ✓ | |
| | USB Interface | 4( Front 2 & Back 2) | |
| | PTZ | 1 RS-485, 1 RS232 | |
| General | Power supply | AC  220/110V | |
| | Power Consumption (Full Load HDD) | 66W | 71W |
| | Working Environment | -10°C~+55°C | |

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# HB8800X3
# Professional 960H DVR

## Features:

- ▶ Support full channel record with parameter adjustable and instant playback
- ▶ Support Digital Zoom on preview and playback
- ▶ Support 4 mask area settings,Support 4 special interested area
- ▶ Support Full screen/preview/section video mask
- ▶ Support motion/schedule/manual/abnormal(including disk error, video loss,video mask, motion detect, sensor detect etc.) alarm
- ▶ Support buzz and email sending while alarming
- ▶ Support motion detect and alarm linkage to multiple channels record simultaneously
- ▶ Support search and backup video or picture by Time/Event inquiry
- ▶ Support HDD group management, controls R/W and analyze disk error information
- ▶ Support DHCP,DDNS,3G or PPPOE and auto redial
- ▶ Support NTP,DST
- ▶ Support UPNP,FTP
- ▶ Support preview/playback/download remotely by CMS, Webpage(Chrome,IE,firefox,Safari,etc.) or mobile apps
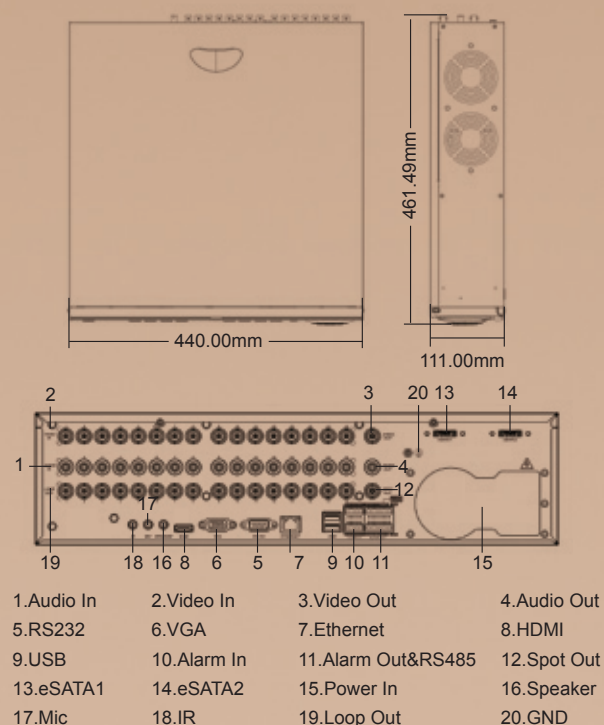
## Rear Panel:

461.49mm
440.00mm
111.00mm

1.Audio In
2.Video In
3.Video Out
4.Audio Out
5.RS232
6.VGA
7.Ethernet
8.HDMI
9.USB
10.Alarm In
11.Alarm Out&RS485
12.Spot Out
13.eSATA1
14.eSATA2
15.Power In
16.Speaker
17.Mic
18.IR Extension
19.Loop Out
20.GND

## Product Parameters

| | | HB8808X3 | HB8816X3 |
|---|---|---|---|
| Model | | HB8808X3 | HB8816X3 |
| Housing | | 2.5U | |
| Operation System | | Embedded LINUX | |
| Video | Compression | H.264 | |
| | Input | 8ch BNC(1 Vp-p,75Ω) | 16ch BNC (1 Vp-p,75Ω) |
| | Ouput | 1 BNC, 1 VGA,1 HDMI,1 SPOT,8/16 Loop | |
| | Dual stream | ✓ | |
| Audio | Compression | G.771A | |
| | Input | 8ch BNC | 16ch BNC |
| | Ouput | 1CH BNC | |
| | Bidirectional Talk | 3.5mm MIC Input Interface | |
| Alarm | Input | 8ch | 16ch |
| | Output | 4ch | |
| Recoding | Resolution | 8ch 960H Real time | 16ch 960H Realtime |
| | Recoding mode | Manual, Schedule, Motion, Alarm | |
| | Recoding Interval | Pre-record: 5-30 sec, Post-record: 0-180 sec | |
| Playback | channel | 8ch real time | 16ch real time |
| | Search Mode | Time, Date, Record Mode, Smart Search,Quick Playback | |
| | Privacy Masking | 4 Zones Maximum, On DVR and PC | |
| Network | Web | IE, Chrome, Firefox, Safari | |
| | CMS | Free and professional , support max 50 pcs DVR management | |
| | Mobile | Support (IPhone, Andorid, Ipad) | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail / Support snapshot | |
| Backup | | USB/ CD&DVD-RW / eSATA / Network | |
| HDD | | 12 HDD(Max 4TB for each),3 eSATA(Front 1,Back 2) | |
| External Interface | Network Interface | 1 RJ-45 10/100M/1000M adaptive Ethernet Interface | |
| | IR extension | ✓ | |
| | USB Interface | 4 Interfaces( Front 2 & Back 2) | |
| | PTZ | 1 RS-485, 1 RS232 | |
| General | Power supply | AC  220/ 110V | |
| | Power Consumption (Full Load HDD) | 68W | 73W |
| | Working Environment | -10°C~+55°C | |

# HANBANG

# HB8800X3-E
# Professional 960H DVR

## Features:

▸ Support full channel record with parameter adjustable and instant playback
▸ Support Digital Zoom on preview and playback
▸ Support 4 mask area settings,Support 4 special interested area
▸ Support Full screen/preview/section video mask
▸ Support motion/schedule/manual/abnormal(including disk error, video loss,video mask, motion detect, sensor detect etc.) alarm
▸ Support buzz and email sending while alarming
▸ Support motion detect and alarm linkage to multiple channels record simultaneously
▸ Support search and backup video or picture by Time/Event inquiry
▸ Support HDD group management, controls R/W and analyze disk error information
▸ Support DHCP,DDNS,3G or PPPOE and auto redial
▸ Support NTP,DST
▸ Support UPNP,FTP
▸ Support preview/playback/download remotely by CMS, Webpage(Chrome,IE,firefox,Safari,etc.) or mobile apps

## Rear Panel:

461.49mm
440.00mm
111.00mm

1.Audio In       2.Video In       3.Video Out       4.Audio Out
5.RS232         6.VGA           7.Ethernet         8.HDMI
9.USB           10.Alarm In      11.Alarm Out&RS485  12.Spot Out
13.eSATA1       14.eSATA2        15.Power In         16.Speaker
17.Mic          18.IR            19.Loop Out         20.GND

## Product Parameters

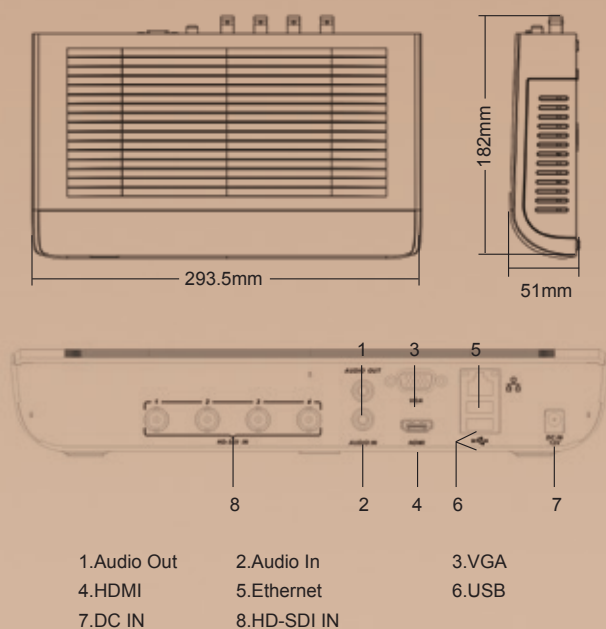| | Model | HB8808X3-E | HB8816X3-E |
|---|---|---|---|
| | Housing | 2.5U | |
| | Operation System | Embedded LINUX | |
| Video | Compression | H.264 | |
| | Input | 8ch BNC(1 Vp-p,75Ω) | 16ch BNC (1 Vp-p,75Ω) |
| | Ouput | 1 BNC, 1 VGA,1 HDMI,1 SPOT,8/16 Loop | |
| | Dual stream | ✓ | |
| Audio | Compression | G.771A | |
| | Input | 8ch BNC | 16ch BNC |
| | Ouput | 1CH BNC | |
| | Bidirectional Talk | 3.5mm MIC Input Interface | |
| Alarm | Input | 8ch | 16ch |
| | Output | 4ch | |
| Recoding | Resolution | 8ch 960H Real time | 16ch 960H Realtime |
| | Recoding mode | Manual, Schedule, Motion, Alarm | |
| | Recoding Interval | Pre-record: 5-30 sec, Post-record: 0-180 sec | |
| Playback | channel | 8ch real time | 16ch real time |
| | Search Mode | Time, Date, Record Mode, Smart Search,Quick Playback | |
| | Privacy Masking | 4 Zones Maximum, On DVR and PC | |
| Network | Web | IE, Chrome, Firefox, Safari | |
| | CMS | Free and professional , support max 50 pcs DVR management | |
| | Mobile | Support (IPhone, Andorid, Ipad) | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail / Support snapshot | |
| | Backup | USB/ CD&DVD-RW / eSATA / Network | |
| | HDD | 12 HDD(Max 4TB for each), 3 eSATA(Front 1,Back 2),RAID5 | |
| External Interface | Network Interface | 1 RJ-45 10/100M/1000M adaptive Ethernet Interface | |
| | IR extension | ✓ | |
| | USB Interface | 4 Interfaces( Front 2 & Back 2) | |
| | PTZ | 1 RS-485, 1 RS232 | |
| General | Power supply | AC  220/ 110V | |
| | Power Consumption (Full Load HDD) | 68W | 73W |
| | Working Environment | -10°C~+55°C | |

# HB5100-S
# Economical HD-SDI DVR

## Features:

▸ Support full channel record with parameter adjustable and instant playback
▸ Support remote control
▸ support 4 mask area settings, support 4 special interested area
▸ support  Full screen/preview/section video mask
▸ support motion/schedule/manual/abnormal(including (Disk error, video loss,video mask,motion detect,etc.) alarm
▸ Support buzz and email sending while alarming
▸ Support motion detect and alarm linkage to multiple channels record simultaneously;
▸ Support search and backup video or picture by Time/Event inquiry
▸ Support external USB/DVD/eSATA burner
▸ Support HDD group management, controls R/W and analyze disk error information
▸ Support DHCP,DDNS,3G or PPPOE and auto redial
▸ Support NTP,DST
▸ Support UPNP,FTP
▸ support preview/playback/download remotely by CMS, Webpage (Chrome,IE,firefox,Safari,etc.) or mobile apps (Iphone and Android)

## Product Parameters

| Model | | 5104-S |
|---|---|---|
| Housing | | Plastic Housing 1U |
| Operation System | | Embedded LINUX |
| Video | Compression | H.264 |
| | Input | 4 |
| | Ouput | VGA+HDMI+CVBS |
| Audio | Compression | G.771A |
| | Input | 1*RCA |
| | Ouput | 1*RCA |
| Alarm | Input | 0 |
| | Output | 0 |
| Preview | Display | 4 |
| | Sequence | Yes |
| | Privacy Masking | 4 zones Maximum |
| Recoding | Resolution | 4*720P@20fps  4*720P@12fps |
| | Recoding mode | Manual, Schedule, Motion, Alarm |
| | Recording Interval | Pre-record: 10 sec, Post-record: 30 sec |
| Playback | channel | 1*720P@20fps  4*720P@12fps |
| | Search Mode | Time, Event, File Management, Image(snapshot) |
| | Privacy Masking | 4 zones Maximum |
| Network | Web | IE, Chrome, Firefox, Safari |
| | CMS | Free and professional , support max 50 pcs DVR management |
| | Mobile | support (IPhone, Andorid, Ipad) |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail/support snapshot |
| Backup | | USB; Remote |
| HDD | | 1HDD( Max 4TB) |
| IR extension | | 0 |
| External Interface | Network Interface | 1 RJ-45 10/100M adaptive Ethernet Interface |
| | USB Interface | 2 |
| General | Power supply | DC 12V |
| | Power Consumption | 24W |
| | Working temperature | -10°C~+55°C |

## Rear Panel:

182mm

293.5mm

51mm

1. Audio Out
2. Audio In
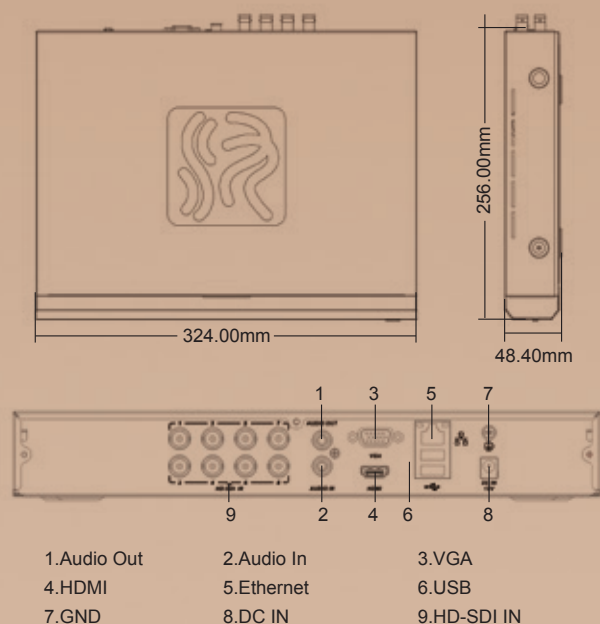3. VGA
4. HDMI
5. Ethernet
6. USB
7. DC IN
8. HD-SDI IN

# HB5100
# Economical HD-SDI DVR

## Features:

▶ Support full channel record with parameter adjustable and instant playback
▶ Support remote control
▶ support 4 mask area settings, support 4 special interested area
▶ support  Full screen/preview/section video mask
▶ support motion/schedule/manual/abnormal(including (Disk error, video loss,video mask,motion detect,etc.) alarm
▶ Support buzz and email sending while alarming
▶ Support motion detect and alarm linkage to multiple channels record simultaneously;
▶ Support search and backup video or picture by Time/Event inquiry
▶ Support external USB/DVD/eSATA burner
▶ Support HDD group management, controls R/W and analyze disk error information
▶ Support DHCP,DDNS,3G or PPPOE and auto redial
▶ Support NTP,DST
▶ Support UPNP,FTP
▶ support preview/playback/download remotely by CMS, Webpage (Chrome,IE,firefox,Safari,etc.) or mobile apps (Iphone and Android)

## Rear Panel:

256.00mm
324.00mm
48.40mm

1 3 5 7
9 2 4 6 8

1.Audio Out      2.Audio In        3.VGA
4.HDMI           5.Ethernet        6.USB
7.GND            8.DC IN           9.HD-SDI IN

## Product Parameters

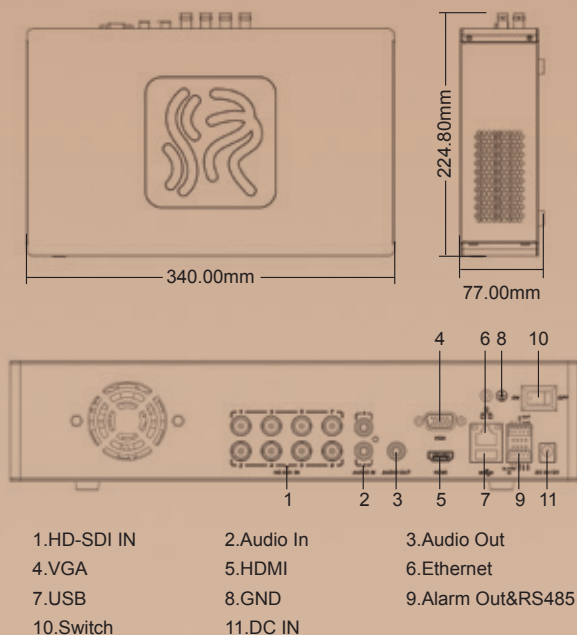| Model | | 5104 | 5108 |
|---|---|---|---|
| Housing | | Plastic Housing 1U | |
| Operation System | | Embedded LINUX | |
| Video | Compression | H.264 | |
| | Input | 4 | 8 |
| | Ouput | VGA+HDMI+CVBS | |
| Audio | Compression | G.771A | |
| | Input | 1*RCA | |
| | Ouput | 1*RCA | |
| Alarm | Input | 0 | |
| | Output | 0 | |
| Preview | Display | 4 | 8 |
| | Sequence | Yes | |
| | Privacy Masking | 4 zones Maximum | |
| Recoding | Resolution | 4*720P real time | 8*720P real time |
| | Recoding mode | Manual, Schedule, Motion, Alarm | |
| | Recording Interval | Pre-record: 10 sec, Post-record: 30 sec | |
| Playback | channel | 4ch real time | 4*720P@30fps 8*720P@15fps |
| | Search Mode | Time, Event, File Management, Image(snapshot) | |
| | Privacy Masking | 4 zones Maximum | |
| Network | Web | IE, Chrome, Firefox, Safari | |
| | CMS | Free and professional , support max 50 pcs DVR management | |
| | Mobile | support (IPhone, Andorid, Ipad) | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail/support snapshot | |
| Backup | | USB; Remote | |
| HDD | | 1HDD( Max 4TB) | |
| IR extension | | 0 | |
| External Interface | Network Interface | 1 RJ-45 10/100M adaptive Ethernet Interface | |
| | USB Interface | 2 | |
| General | Power supply | DC 12V | |
| | Power Consumption | 24W | |
| | Working temperature | -10°C~+55°C | |

# HB5200-S
# Economical HD-SDI DVR

## Features:

▸ Support full channel record with parameter adjustable and instant playback
▸ Support PTZ,serial keyboard and remote control
▸ support 4 mask area settings, support 4 special interested area
▸ support  Full screen/preview/section video mask
▸ support motion/schedule/manual/abnormal(including (Disk error, video loss,video mask, motion detect, sensor detect etc.) alarm
▸ Support buzz and email sending while alarming
▸ Support motion detect and alarm linkage to multiple channels record simultaneously;
▸ Support search and backup video or picture by Time/Event inquiry
▸ Support external USB/DVD/eSATA burner
▸ Support HDD group management, controls R/W and analyze disk error information
▸ Support DHCP,DDNS,3G or PPPOE and auto redial
▸ Support NTP,DST
▸ Support UPNP,FTP
▸ support preview/playback/download remotely by CMS, Webpage (Chrome,IE,firefox,Safari,etc.) or mobile apps (Iphone and Android)

## Rear Panel:

1.HD-SDI IN
4.VGA
7.USB
10.Switch

2.Audio In
5.HDMI
8.GND
11.DC IN

3.Audio Out
6.Ethernet
9.Alarm Out&RS485

## Product Parameters

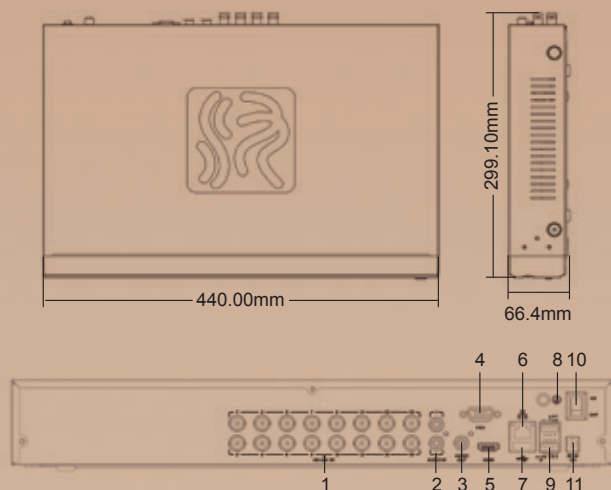| Model | | 5204-S | 5208-S |
|---|---|---|---|
| Housing | | 1.5U | |
| Operation System | | Embedded LINUX | |
| Video | Compression | H.264 | |
| | Input | 4 | 8 |
| | Ouput | VGA+HDMI+CVBS | |
| Audio | Compression | G.771A | |
| | Input | 2*RCA | |
| | Ouput | 1*RCA | |
| Alarm | Input | 4 | |
| | Output | 1 | |
| Preview | Display | 4 | 8 |
| | Sequence | Yes | |
| | Privacy Masking | 4 zones Maximum | |
| Recoding | Resolution | 4*720P 4ch real time | 8*720P 4ch real time |
| | Recoding mode | Manual, Schedule, Motion, Alarm | |
| | Recording Interval | Pre-record: 10 sec, Post-record: 30 sec | |
| Playback | channel | 4ch real time | 4*720P@30fps 8*720P@15fps |
| | Search Mode | Time, Event, File Management, Image(snapshot) | |
| | Privacy Masking | 4 zones Maximum | |
| Network | Web | IE, Chrome, Firefox, Safari | |
| | CMS | Free and professional , support max 50 pcs DVR management | |
| | Mobile | support (IPhone, Andorid, Ipad) | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail/support snapshot | |
| Backup | | USB; Remote | |
| Storage | | 2HDD( Max 4TB) | |
| IR extension | | 0 | |
| External Interface | Network Interface | 1 RJ-45 10/100M adaptive Ethernet Interface | |
| | USB Interface | 2 | |
| | Serial Interface | 1RS485(half-duplex) | |
| General | Power supply | DC 12V | |
| | Power Consumption | 40W | |
| | Working temperature | -10°C~+55°C | |

# HANBANG

# HB5200
# Economical HD-SDI DVR

## Features:

▶ *Support full channel record with parameter adjustable and instant playback*

▶ *Support PTZ,serial keyboard and remote control*

▶ *support 4 mask area settings, support 4 special interested area*

▶ *support  Full screen/preview/section video mask*

▶ *support motion/schedule/manual/abnormal(including (Disk error, video loss,video mask, motion detect, sensor detect etc.) alarm*

▶ *Support buzz and email sending while alarming*

▶ *Support motion detect and alarm linkage to multiple channels record simultaneously;*

▶ *Support search and backup video or picture by Time/Event inquiry*

▶ *Support external USB/DVD/eSATA burner*

▶ *Support HDD group management, controls R/W and analyze disk error information*

▶ *Support DHCP,DDNS,3G or PPPOE and auto redial*

▶ *Support NTP,DST*

▶ *Support UPNP,FTP*

▶ *support preview/playback/download remotely by CMS, Webpage (Chrome,IE,firefox,Safari,etc.) or mobile apps (Iphone and Android)*

## Rear Panel:

440.00mm

299.10mm

66.4mm

1.HD-SDI IN
2.Audio In
3.Audio Out
4.VGA
5.HDMI
6.Ethernet
7.USB
8.GND
9.Alarm Out&RS485
10.Switch
11.DC IN

## Product Parameters

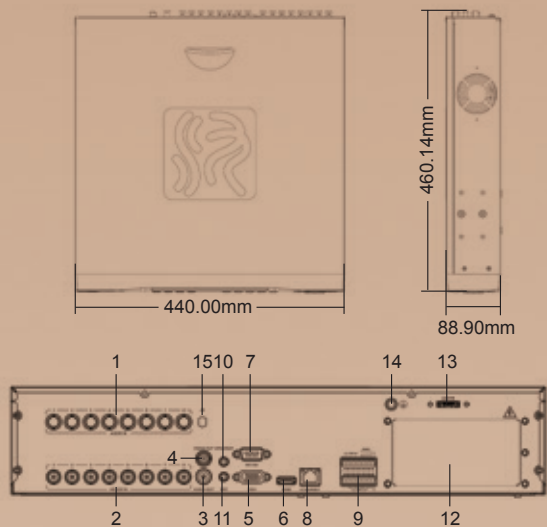| Model | | 5204 | 5208 | 5216 |
|---|---|---|---|---|
| Housing | | 1.5U | | |
| Operation System | | Embedded LINUX | | |
| Video | Compression | H.264 | | |
| | Input | 4 | 8 | 16 |
| | Ouput | VGA+HDMI | | |
| Audio | Compression | G.771A | | |
| | Input | 2*RCA | | |
| | Ouput | 1*RCA | | |
| Alarm | Input | 4 | | |
| | Output | 1 | | |
| Preview | Display | 4 | 8 | 16 |
| | Sequence | Yes | | |
| | Privacy Masking | 4 zones Maximum | | |
| Recoding | Resolution | 4*720P real time | 8*720P real  time | 16*720P real  time |
| | Recoding mode | Manual, Schedule, Motion, Alarm | | |
| | Recording Interval | Pre-record: 10 sec, Post-record: 30 sec | | |
| Playback | channel | 4ch real time | 4*720P@30fps 8*720P@15fps | 4*720P@30fps 8*720P@15fps |
| | Search Mode | Time, Event, File Management, Image(snapshot) | | |
| | Privacy Masking | 4 zones Maximum | | |
| Network | Web | IE, Chrome, Firefox, Safari | | |
| | CMS | Free and professional, support max 50 pcs DVR management | | |
| | Mobile | support (IPhone, Andorid, Ipad) | | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail/support snapshot | | |
| Backup | | USB; Remote | | |
| Storage | | 2HDD( Max 4TB) | | |
| IR extension | | 0 | | |
| External Interface | Network Interface | 1 RJ-45 10/100M adaptive Ethernet Interface | | |
| | USB Interface | 2 | | |
| | Serial Interface | 1RS485(half-duplex) | | |
| General | Power supply | DC 12V | | |
| | Power Consumption | 24W | | |
| | Working temperature | -10°C~+55°C | | |

# HB9400X3
# Professional HD-SDI DVR

## Features:

▶ Support full channel record with parameter adjustable and instant playback
▶ Support PTZ,serial keyboard and remote control
▶ support 4 mask area settings, support 4 special interested area
▶ support  Full screen/preview/section video mask
▶ support motion/schedule/manual/abnormal(including (Disk error, video loss,video mask, motion detect, sensor detect etc.) alarm
▶ Support buzz and email sending while alarming
▶ Support motion detect and alarm linkage to multiple channels record simultaneously;
▶ Support search and backup video or picture by Time/Event inquiry
▶ Support external USB/DVD/eSATA burner
▶ Support HDD group management, controls R/W and analyze disk error information
▶ Support DHCP,DDNS,3G or PPPOE and auto redial
▶ Support NTP,DST
▶ Support UPNP,FTP
▶ support preview/playback/download remotely by CMS, Webpage (Chrome,IE,firefox,Safari,etc.) or mobile apps (Iphone and Android)

## Rear Panel:



1.Audio In          2.HD-SDI In        3. Audio Out       4.Video Out
5.VGA               6.HDMI             7.RS232            8.Ethernet
9.Alarm In &RS485   10.Speaker         11.Mic             12.Power In
13.eSATA            14.GND             15.IR Extension

## Product Parameters

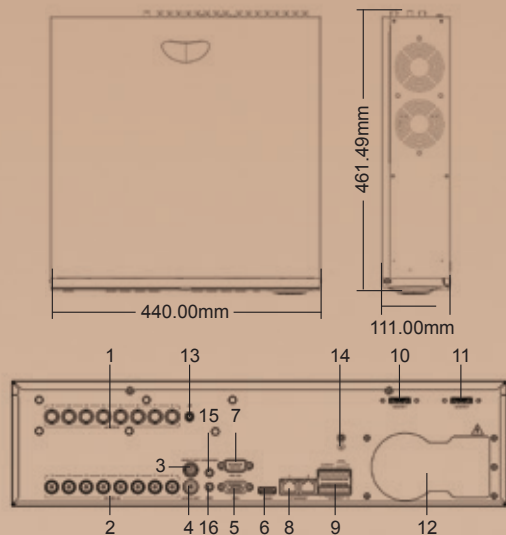| | Model | HB9404X3 | HB9408X3 | HB9016X3 |
|---|---|---|---|---|
| | Housing | 2U | | |
| Video | Compression | H.264 | | |
| | Input | 4CH HD-SDI | 8CH HD-SDI | 4CH HD-SDI + 12CH 960H |
| | Ouput | HDMI+VGA+CVBS(BNC) | | |
| | Dual stream | Support | | |
| Audio | Compression | G.771A | | |
| | Input | 4CH | 8CH | 16CH |
| | Ouput | 1CH composite BNC | | |
| Alarm | Input | 4CH | 8CH | 16CH |
| | Output | 4ch | | |
| Preview | Display | 1/4CH | 1/4/8CH | 1/4/9/16CH |
| | Sequence | ✓ | | |
| | Privacy Masking | 4 zones Maximum | | |
| Recoding | Resolution | 4*1080P30 /720P60 | 8*1080P30 /720P60 | 4*1080P30/ /720P60 + 12*960H real time |
| | Recoding mode | Manual, Schedule, Motion, Alarm | | |
| | Pre and post record | Pre-record: 10sec. Post-record: 30 sec. | | |
| Playback | channel | 4CH real time | 8ch real time | 4ch 1080P or 12ch 960H realtime |
| | Search Mode | Time, Event, File Management, Image(snapshot) | | |
| | Privacy Masking | 4 zones Maximum | | |
| Network | Web | IE (windows XP/WIN7/WIN8) ,Safari(Mac OS), chrome, Firefox | | |
| | CMS | ✓ | | |
| | Mobile | IPhone, Andorid, Ipad | | |
| | Email | Support pre-test , snapshot attached, Support Gmail, hotmail ,Yahoo | | |
| | Backup | Flash drive/ USB CD&DVD-RW /Network download | | |
| | HDD | 8HDD (max 4TB each) | | |
| | IR extension | ✓ | | |
| External Interface | Network Interface | RJ-45 port (10/100M/1000M) | | |
| | USB Interface | 2 ports( Mouse control & Backup) | | |
| | Serial Interface | Support RS232 and RS485 | | |
| General | Power supply | 220±30% V,50±3% Hz / 110±20% V,60±3% Hz | | |
| | Power Consumption | 78W (Without HDD) | 81W (Without HDD) | 90W (Without HDD) |
| | Working temperature | -10°C~+55°C | | |

# HB9600X3
# Professional HD-SDI DVR

## Features:

▶ Support SPOT/HDMI/ VGA/ CVBS output simultaneously

▶ Support full channel record with parameter adjustable and instant playback

▶ Support PTZ,serial keyboard and remote control

▶ support 4 mask area settings, support 4 special interested area

▶ support  Full screen/preview/section video mask

▶ support motion/schedule/manual/abnormal(including (Disk error, video loss,video mask, motion detect, sensor detect etc.) alarm

▶ Support buzz and email sending while alarming

▶ Support motion detect and alarm linkage to multiple channels record simultaneously;

▶ Support search and backup video or picture by Time/Event inquiry

▶ Support external USB/DVD/eSATA burner

▶ Support HDD group management, controls R/W and analyze disk error information

▶ Support DHCP,DDNS,3G or PPPOE and auto redial

▶ Support NTP,DST

▶ Support UPNP,FTP

▶ support preview/playback/download remotely by CMS, Webpage (Chrome,IE,firefox,Safari,etc.) or mobile apps (Iphone and Android)

## Rear Panel:



1.Audio In
2.HD-SDI In
3.Video Out
4.Audio Out
5.VGA
6.HDMI
7.RS232
8.Ethernet
9.Alarm In &RS485
10.eSATA1
11.eSATA2
12.Power In
13.IR  Extension
14.GND
15.Speaker
16.Mic

## Product Parameters

| Model | | HB9604X3 | HB9608X3 | HB9216X3 |
|---|---|---|---|---|
| Housing | | 2.5U | | |
| Video | Compression | H.264 | | |
| | Input | 4 ch BNC (1.0 Vp-p,75Ω) | 8 ch BNC (1.0 Vp-p,75Ω) | 16 ch BNC (1.0 Vp-p,75Ω) |
| | Ouput | 1 HDMI, 1 VGA, 1 BNC (1.0 Vp-p,75Ω) | | 1 HDMI, 1 VGA, 1 BNC, 1 SPOT |
| | Dual stream | Support | | |
| Audio | Compression | G.771A | | |
| | Input | 4 ch | 8 ch | 16 ch |
| | Ouput | 1CH | | |
| Alarm | Input | 4CH | 8CH | 16CH |
| | Output | 4ch | | |
| | Sequence | ✓ | | |
| | Privacy Masking | 4 zones Maximum | | |
| Recoding | Resolution | 4ch*1080P30 /720P60 | 8ch*1080P30 /720P60 | 4ch*1080P30 /720P60 + 12ch*960H real time |
| | Recoding Quality | CBR, VBR | | |
| | Recoding Interval | Pre-record: 10sec. Post-record: 30 sec. | | |
| Playback | channel | 1ch real time, 4ch@15fps | 4ch real time, 8ch@12fps | 4ch 1080P30 /12ch 960H real time |
| | Search Mode | Time, Date, Record Mode, Smart Search,Quick Playback,Snapshot Picture Search | | |
| | Privacy Masking | 4 Zones Maximum, On DVR and PC | | |
| Network | Web | WEB( IE, Chrome, Firefox, Safari) | | |
| | CMS | ✓ | | |
| | Mobile | IPhone, Andorid, Ipad | | |
| | Email | Pre-test and auto upload to Gmail, Yahoo, Hotmail / support snapshot | | |
| Backup | | USB Disk/ USB HDD/ USB CD&DVD-RW / eSATA Device / Internal SATA burner(Optinal)/ Network Download | | |
| HDD | | 12 SATA ports(12 HDDs or 8 HDDs + 1 CD/DVD-RW),Max 4TB each hard disk.3 eSATA | | |
| IR extension | | ✓ | | |
| External Interface | Network Interface | 1 RJ-45 10/100M/1000M adaptive Ethernet Interface | | |
| | USB Interface | 2 Interfaces( Mouse control & Backup) | | |
| | Serial Interface | 1 RS232, 1 RS485(FDX) | | |
| General | Power supply | 220±30% V,50±3% Hz / 110±20% V,60±3% Hz | | |
| | Power Consumption | 78W (Without HDD) | 81W (Without HDD) | 90W (Without HDD) |
| | Working temperature | -10°C~+55°C | | |

# Economic NVR
# HB7900X3-L series

## Features:
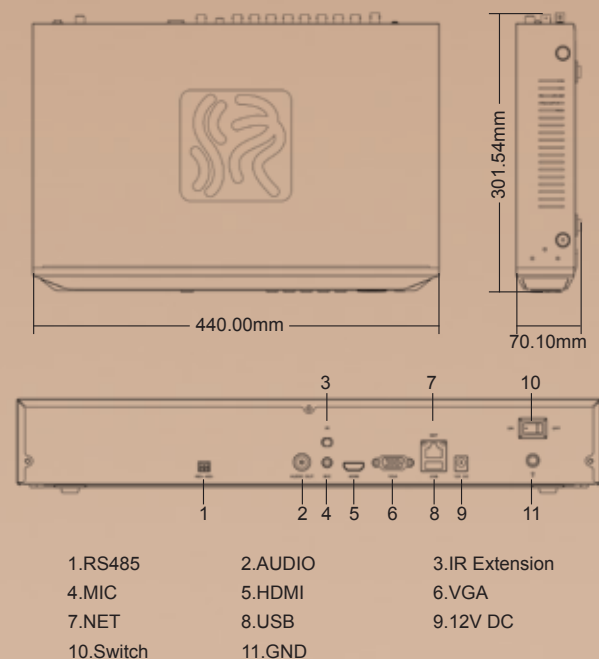
▸ Up to 2 Megapixels Resolution(1080P) Recording.
▸ Up to 8ch Synchronous playback
▸ Support Onvif 2.0
▸ Support search and backup video or picture by Time/Event inquiry
▸ Support PPPOE and auto redial
▸ Support free DDNS with own server
▸ Support UPNP, NTP
▸ Support Email alarm function with linkage channels
▸ Support Iphone and Android app.
▸ Support preview/playback/download remotely by CMS, Web(Chrome, IE,firefox,Safari,etc.)



## Product Parameters

| Series model | HB79X3-L series | | |
|---|---|---|---|
| Model name | HB7904X3-LC | HB7908X3-LC | HB7916X3-L |
| Housing | Mini 1U | | 1.5U |
| Model description | 4 ch economy | 8 ch economy | 16 ch economy |
| Network video input bandwith | 20M | 40M | 80M |
| Network video input total number | 4 ch | 8 ch | 16 ch |
| Record resolution | 1080p/UXGA/720p/VGA/960H/D1 real time | | |
| Housing | 1U | | 1.5U |
| Panel | with button | | |
| Preview channels | 4 | 8 | 16 |
| Playback | 4*720P or 1*1080P real time | | 4*1080P real time |
| Audio output | | | 1*RCA |
| Intercom(3mm) | 1 | | |
| VGA(DB15) | 1 | | |
| HDMI | 1 | | |
| USB | 2(Both in the back) | | 2(Front and rear each one) |
| SATA | 1 (Max 4TB) | | 2 (Max 4TB for each) |
| eSATA | N/A | | |
| SATA DVD burner | N/A | | |
| RAID | N/A | | |
| Ethernet RJ45 | 1000M | | |
| UPNP Ethernet interface | 0 | | |
| Alarm Input | 0 | | |
| Alarm Output | 0 | | |
| +12V Ouput (For alarm input) | 0 | | |
| RS232 | 0 | | |
| RS485 | 1(half-duplex) | | |
| IR extension line | X | | √ |
| Power supply | 12V 24W | | 12V 40W |
| Power switch | 1 | | |
| IR remote contoller | √ | | |
| HB3.0 | √ | | |
| ONVIF | √ | | |
| PSIA | X | | |
| GB28181 | √ | | |

## Rear Panel:



301.54mm

440.00mm

70.10mm

1.RS485    2.AUDIO    3.IR Extension
4.MIC      5.HDMI     6.VGA
7.NET      8.USB      9.12V DC
10.Switch  11.GND

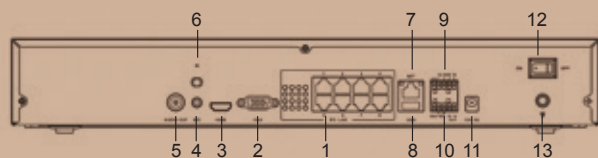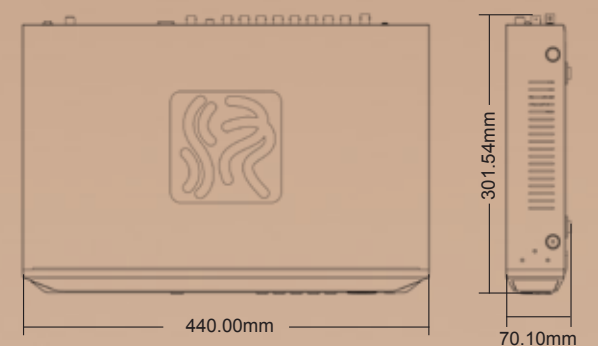**HANBANG**

# Economic 1080P NVR
# HB7900X3 series

## Features:

▸ Up to 2 Megapixels Resolution(1080P) Recording.
▸ Up to 8ch Synchronous playback
▸ Support Onvif 2.0
▸ Support search and backup video or picture by Time/Event inquiry
▸ Support PPPOE and auto redial
▸ Support free DDNS with own server
▸ Support UPNP, NTP
▸ Support Email alarm function with linkage channels
▸ Support iPhone and Android app.
▸ Support preview/playback/download remotely by CMS, Web(Chrome, IE,firefox,Safari,etc.)

## Product Parameters

| Series model | HB79X3 series | | |
|---|---|---|---|
| Model name | HB7904X3 | HB7908X3 | HB7916X3 |
| Housing | 1.5U | | |
| Model description | 4 ch economy | 8 ch economy | 16 ch economy |
| Mainboard | 4 layer board, mulit-ethernet interface with on board | | |
| Network video input bandwith | 20M | 40M | 80M |
| Network video input total number | 4 ch | 8 ch | 16 ch |
| Record resolution | 1080p/UXGA/720p/VGA/960H/D1 real time | | |
| Housing | 1.5U/408mm×440mm×66mm | | |
| Panel | with button | | |
| Preview channels | 4 | 8 | 16 |
| Playback | 4*720P or 1*1080P real time | | 4*1080P real time |
| Audio output | 1*RCA | | |
| Intercom(3mm) | 1 | | |
| VGA(DB15) | 1 | | |
| HDMI | 1 | | |
| USB | 2(Front and rear each one) | | |
| SATA | 2(Max 4TB for each) | | |
| eSATA | N/A | | |
| SATA DVD burner | N/A | | |
| RAID | N/A | | |
| Ethernet RJ45 | 1000M | | |
| UPNP Ethernet interface | 4*100M | 8*100M | |
| Alarm Input | 4 | | |
| Alarm Output | 1 | | |
| +12V Ouput (For alarm input) | 1 | | |
| RS232 | 0 | | |
| RS485 | 1(half-duplex) | | |
| IR extension line | √ | | |
| Power supply | 12V 40W | | |
| Power switch | 1 | | |
| IR remote contoller | √ | | |
| HB3.0 | √ | | |
| ONVIF | √ | | |
| PSIA | X | | |
| GB28181 | √ | | |

## Rear Panel:

301.54mm

440.00mm

70.10mm

6   7 9   12

5 4 3 2   1   8 10 11   13

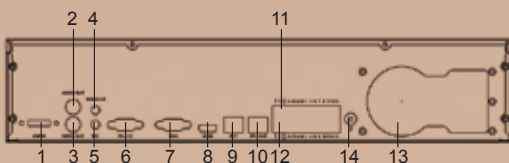| | | |
|---|---|---|
| 1.IPC-Lan | 2.VGA | 3.HDMI |
| 4.MIC | 5.Audio Out | 6.IR Extension |
| 7.NET | 8.USB | 9.Alarm In |
| 10.Alarm Out | 11.12V DV | 12.Switch |
| 13.GND | | |

# Professional NVR
# HB9900 series

## Features:

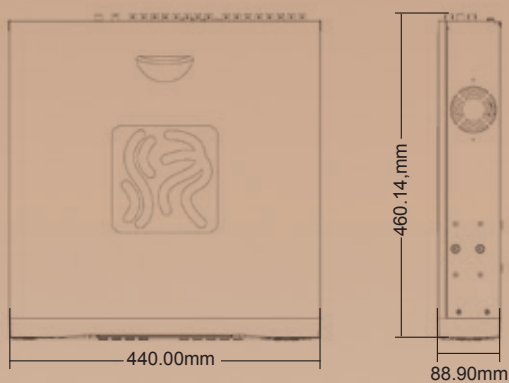- Support 8/16/32CH input
- Support full channel 1080P recording
- Support up to 4channel 1080P realtime playback
- Support full channel audio input
- Support 8 SATA port, each up to 4TB
- Support Onvif 2.0
- Support search and backup video or picture by Time/Event inquiry
- Support PPPOE and auto redial
- Support free DDNS with own server
- Support Email alarm function with linkage channels
- Support Iphone and Android app.
- Support preview/playback/download remotely by CMS, Web (Chrome, IE,firefox,etc.)

## Rear Panel:



440.00mm

460.14.mm

88.90mm

2  4        11

1  3  5  6    7    8  9  10 12    14    13

1.eSATA          2.Audio Out      3.Video out
4.Speaker        5.Mic            6.RS232
7.VGA            8.HDMI           9.Net
10.IPC-LAN       11.RS485         12.485R+/-
13.Power In      14.GND.

## Product Parameters

| Series model | HB9900 series | | |
|---|---|---|---|
| Model name | HB9908 | HB9916 | HB9932 |
| Mainboard | 4 layer board, single ethernet interface with on board | | |
| Network video input bandwith | 40M | 80M | 160M |
| Network video input total number | 8 ch | 16 ch | 32 ch |
| Record resolution | 1080p/UXGA/720p/VGA/960H/D1 real time | | |
| Housing | 2U | | |
| Panel | Key base | | |
| Preview channels | 8 ch | 16 ch | 16 ch |
| Playback | 4*1080P real time | | |
| Intercom(3mm) | 1 | | |
| VGA(DB15) | 1 | | |
| HDMI | 1 | | |
| USB | 2 front | | |
| SATA | 8 | | |
| eSATA | √ | | |
| Ethernet RJ45 | 1000M * 2 | | |
| Alarm Input | 16 | | |
| Alarm Output | 4 | | |
| +12V Ouput (For alarm input) | 1 | | |
| RS232 | 1 | | |
| RS485 | 1(half-duplex) | | |
| Power supply | 220V/270W | | |
| IR remote contoller | √ | | |

# HANBANG

## HB671-ARX
### HD-SDI entry-level IR bullet camera

## Features:

▶ *Adopt high-performance CMOS sensor.*
▶ *Minimal illumination 0Lux With IR*
▶ *Support auto color to back*
▶ *Support automatic gain, automatic white balance.*
▶ *IP66 level water-protecting design*
▶ *Equipped with a fixed focal length lens*

## Parameters:

| | Model | HB671-ARX |
|---|---|---|
| Camera | Imaging Device | 1.0 million pixel Sony scan CMOS |
| | Minimal illumination | AGC ON.0Lux with IR |
| | Day & Night | IR-CUT Double Light-filter Swithing |
| Video parameters | Effective pixels | 1.0 million |
| | Resolution | 1280×720 |
| | Frame rate | 720P 30fps |
| | IR distance | 30m/50m optional, Array |
| | Lens focus | 30m(Standard 6mm,3.6/8mm optional) 50m(Standard 8mm, 12/16mm optional) |
| | Wide dynamic | N/A |
| | Noise-signal ratio | TBD |
| | Gain controlling | Auto |
| | White balance | Auto |
| | Backlight compensation | Support |
| | Digital noise reduction | Support |
| Port | Video output | HD-SDI interface |
| Other parameters | Working Temp. | -20℃~+55℃ |
| | Working Humidtity | Less than 90%(No condensation) |
| | Power supply | DC 12V |
| | Consumption | Less than 3W |
| | Cable control | Optional |
| | Power supply | DC12V±10% |

# HB571-AR

## HD-SDI entry-level IR bullet camera

## Features:

▶ *Adopt high-performance CMOS sensor.*
▶ *Minimal illumination 0Lux With IR*
▶ *Support auto color to back*
▶ *Support automatic gain, automatic white balance.*
▶ *IP66 level water-protecting design*
▶ *Equipped with a fixed focal length lens*

## Parameters:

| Model | | HB571-AR |
|---|---|---|
| Camera | Imaging Device | 1.0 million pixel Sony scan CMOS |
| | Minimal illumination | AGC ON.0Lux with IR |
| | Day & Night | IR-CUT Double Light-filter Swithing |
| Video parameters | Effective pixels | 1.0 million |
| | Resolution | 1280×720 |
| | Frame rate | 720P 30fps |
| | IR distance | 30M, Array |
| | Lens focus | Standard 3.6mm ,6mm optional |
| | Wide dynamic | N/A |
| | Noise-signal ratio | TBD |
| | Gain controlling | Auto |
| | White balance | Auto |
| | Backlight compensation | Support |
| | Digital noise reduction | Support |
| Port | Video output | HD-SDI interface |
| Other parameters | Working Temp. | -20℃~+55℃ |
| | Working Humidtity | Less than 90%(No condensation) |
| | Power supply | DC 12V |
| | Consumption | Less than 3W |
| | Cable control | Optional |
| | Power supply | DC12V±10% |

# HANBANG

## HB771A-ARX
### 1.0 Mega pixels HD IR Bullet IP Camera

## Features:

▸ Image resolution up to 1 Mega pixels, using advanced H.264 video compression technology, Support for HD video encoding; Support Ultra-low-light capabilities

▸ Built-in motion detection, Video shielding, automatic networking, alarm network transmission and other functions

▸ Support dual-stream

▸ High quality array infrared lights, irradiation distance of 50 meters maximum

▸ Support dual filter automatic switching, true day and night surveillance equipment

▸ Provide SDK facilitates integration and secondary development

## Parameters:

| Parameters / Series | | HB771A-ARX | | | |
|---|---|---|---|---|---|
| Model | | HB771A-AR3 | HB771A-AR3-P | HB771A-AR5 | HB771A-AR5-P |
| OnVif | | Support | | | |
| Specification | Imaging Device | 1/4″ Sony Line by line scanning CMOS | | | |
| | Effective Pixels | 1280(H)×720(V) | | | |
| | Minimum illumination | Color 0.05Lux, black and white 0 Lux | | | |
| | SNR | >50dB | | | |
| | Gain Control | Auto / Manual (0dB ~ +36 dB) | | | |
| | White Balance | Auto | | | |
| | Electronic Shutter | Auto / Manual(1/25s ~ 1/8000s) | | | |
| | Exposure Control | Auto | | | |
| | Lens parameters | M12,Standard 6mm,3.6mm optional | | M12,Standard 8mm,12mm optional | |
| | Day and night | ICR | | | |
| | IR parameters | 30m(LED Array) | | 50m(LED Array) | |
| Video | Video Coding | H.264 Main Profile | | | |
| | Video Resolution | 720P(1280×720) real time | | | |
| | Image resolution (dual-stream) | 720p+D1 | | | |
| | Maximum frame rate | 50Hz: 25f/s, 60Hz: 30f/s | | | |
| | Output rate | 32Kbps~4Mbps | | | |
| | Image parameter settings | Brightness, color, contrast, saturation can be adjusted through IE browser Client | | | |
| Network | Network Protocol | TCP/IP,HTTP,DHCP,DNS,NTP,SNMP,DDNS,SMTP, RTP/RTSP | | | |
| | Security | Password protection, multi-level user management | | | |
| Interface | Network Interface | 1 RJ45, 10M/100M adaptive Ethernet port | | | |
| | PoE | No | YES | No | YES |
| General | Power supply | DC12V ±10% | | | |
| | Power Consumption | 5W | | | |
| | Work Environment | -10℃ ~ +55℃ | | | |

# HB871A
## 1.0 Mega pixels IR Dome IP Camera

## Features:

▶ Image resolution up to 1 Mega pixels, using advanced H.264 video compression technology, Support for HD video encoding; Support Ultra-low-light capabilities

▶ Built-in motion detection, Video shielding, automatic networking, alarm network transmission and other functions

▶ Support dual-stream

▶ High quality array infrared lights, irradiation distance of 20 meters maximum

▶ Support dual filter automatic switching, true day and night surveillance equipment

▶ Provide SDK facilitates integration and secondary development

## Parameters:

| Parameters / Series | | HB871A | |
|---|---|---|---|
| Model | | HB871A-AR | HB871A-AR-P |
| OnVif | | Support | |
| Specification | Imaging Device | 1/4" Sony Line by line scanning CMOS | |
| | Effective Pixels | 1280(H)×720(V) | |
| | Minimum illumination | Color 0.05Lux, black and white 0 Lux | |
| | SNR | >50dB | |
| | Gain Control | Auto / Manual (0dB ~ +36 dB) | |
| | White Balance | Auto | |
| | Electronic Shutter | Auto / Manual(1/25s ~ 1/8000s) | |
| | Exposure Control | Auto | |
| | Lens parameters | M12,Standard 6mm,3.6mm optional | |
| | Day and night | ICR | |
| | IR parameters | 20m(LED Array) | |
| Video | Video Coding | H.264 Main Profile | |
| | Video Resolution | 720P(1280×720) real time | |
| | Image resolution (dual-stream) | 720p+D1 | |
| | Maximum frame rate | 50Hz: 25f/s, 60Hz: 30f/s | |
| | Output rate | 32Kbps~4Mbps | |
| | Image parameter settings | Brightness, color, contrast, saturation can be adjusted through IE browser Client | |
| Network | Network Protocol | TCP/IP,HTTP,DHCP,DNS,NTP,SNMP,DDNS,SMTP,RTP/RTSP | |
| | Security | Password protection, multi-level user management | |
| Interface | Network Interface | 1 RJ45, 10M/100M adaptive Ethernet port | |
| | PoE | No | Yes |
| General | Power supply | DC12V ±10% | |
| | Power Consumption | 5W | |
| | Work Environment | -10℃ ~ +55℃ | |

# HANBANG

## HB751W-ARX
### 1.3 Mega pixels HD WDR IR Bullet IP Camera

## Features:

▶ Image resolution up to 1.3 Mega pixels, using advanced H.264 video compression technology, support for HD video encoding; support wide dynamic function

▶ Built-in motion detection, Video shielding, automatic networking, alarm network transmission and other functions

▶ Support dual-stream

▶ High quality array infrared lights, irradiation distance of 50 m

▶ Maximum support dual filter automatic switching, true day and night surveillance equipment

▶ Provide SDK facilitates integration and secondary development

▶ IP66 waterproof design, high reliability

## Parameters:

| Parameters / Series | | HB751W-ARX | | | |
|---|---|---|---|---|---|
| Model | | HB751W-AR3 | HB751W-AR3-P | HB751W-AR5 | HB751W-AR5-P |
| OnVif | | Support | | | |
| Specification | Imaging Device | 1/3"Sony Line by line scanning CMOS | | | |
| | Effective Pixels | 1280(H)×960(V) | | | |
| | Minimum illumination | Color 0.05Lux, black and white 0 Lux | | | |
| | SNR | >50dB | | | |
| | Gain Control | Auto / Manual (0dB ~ +36 dB) | | | |
| | White Balance | Auto | | | |
| | Electronic Shutter | Auto / Manual(1/25s ~ 1/8000s) | | | |
| | Exposure Control | Auto | | | |
| | Lens parameters | M12,Standard 6mm,3.6mm optional | | M12,Standard 8mm,12mm optional | |
| | Day and night | ICR | | | |
| | IR parameters | 30m(LED Array) | | 50m(LED Array) | |
| Video | Video Coding | H.264 Main Profile | | | |
| | Video Resolution | 960P(1280×960) | | | |
| | Image resolution (dual-stream) | 960p+D1 | | | |
| | Maximum frame rate | 50Hz: 25f/s, 60Hz: 30f/s | | | |
| | Output rate | 32Kbps,4Mbps | | | |
| | Image parameter settings | Brightness, color, contrast, saturation can be adjusted through IE browser Client | | | |
| | Ultra-illumination effect | No | | | |
| | WDR | Support,≥80dB, | | | |
| Audio | Audio Coding | G.711 | | | |
| | Audio output rate | 64Kbps | | | |
| Network | Network Protocol | TCP/IP,HTTP,DHCP,DNS,NTP,SNMP,DDNS,SMTP,RTP/RTSP | | | |
| | Security | Password protection, multi-level user management | | | |
| Interface | Network Interface | 1 RJ45, 10M/100M adaptive Ethernet port | | | |
| | Audio / intercom input | 1ch Audio In,Support Intercom | | | |
| | Audio Output | 1ch Line Output | | | |
| | Analog video output | 1 BNC analog video output | | | |
| | Alarm Input | 1 ch switch input | | | |
| | Alarm Output | No.1 ch switch output | | | |
| | Memory interfaces | Built-in TF card and eMMC card (optional) | | | |
| | PoE | No | Yes | No | Yes |
| General | Power supply | DC12V ±10% | | | |
| | Power Consumption | 5W | | | |
| | Work Environment | -10℃ ~ +55℃ | | | |

# HB771S-ARX
## 1.4 Mega pixels HD  IR Low Illumination Bullet IP Camera

## Features:

▸ *Image resolution up to 1.4 Mega pixels, using advanced H.264 video compression technology, Support for HD video encoding; Support Ultra-low-light capabilities*

▸ *Built-in motion detection, Video shielding, automatic networking, alarm network transmission and other functions*

▸ *Support dual-stream*

▸ *High quality array infrared lights, irradiation distance of 50 meters maximum*

▸ *Support dual filter automatic switching, true day and night surveillance equipment*

▸ *Provide SDK facilitates integration and secondary development*

## Parameters:

| Parameters / Series | | HB771S-ARX | | | |
|---|---|---|---|---|---|
| Model | | HB771S-AR3 | HB771S-AR3-P | HB771S-AR5 | HB771S-AR5-P |
| OnVif | | Support | | | |
| Specification | Imaging Device | 1/3  Sony Line by line scanning CMOS | | | |
| | Effective Pixels | 1280(H)×1024(V) | | | |
| | Minimum illumination | Color 0.05Lux, black and white 0 Lux | | | |
| | SNR | >50dB | | | |
| | Gain Control | Auto / Manual (0dB ~ +36 dB) | | | |
| | White Balance | Auto | | | |
| | Electronic Shutter | Auto / Manual(1/25s ~ 1/8000s) | | | |
| | Exposure Control | Auto | | | |
| | Lens parameters | M12,Standard 6mm,3.6mm optional | | M12,Standard 8mm,12mm optional | |
| | Day and night | ICR | | | |
| | IR parameters | 30m(LED Array) | | 50m(LED Array) | |
| Video | Video Coding | H.264 Main Profile | | | |
| | Video Resolution | 960P(1280×960) | | | |
| | Image resolution (dual-stream) | 960p+D1 | | | |
| | Maximum frame rate | 50Hz: 25f/s, 60Hz: 30f/s | | | |
| | Output rate | 32Kbps~4Mbps | | | |
| | Image parameter settings | Brightness, color, contrast, saturation can be adjusted through IE browser Client | | | |
| | Ultra-illumination effect | Support | | | |
| Network | Network Protocol | TCP/IP,HTTP,DHCP,DNS,NTP,SNMP,DDNS,SMTP,RTP/RTSP | | | |
| | Security | Password protection, multi-level user management | | | |
| Interface | Network Interface | 1 RJ45, 10M/100M adaptive Ethernet port | | | |
| | PoE | No | Yes | No | Yes |
| General | Power supply | DC12V ±10% | | | |
| | Power Consumption | 5W | | | |
| | Work Environment | -10℃ ~ +55℃ | | | |

# HANBANG

## HB871S-AR
### 1.4 Mega pixels HD IR Low illumination Conch IP Camera

## Features:

▸ *Image resolution up to 1.4 Mega pixels, using advanced H.264 video compression technology, support for HD video encoding; support wide dynamic function*

▸ *Built-in motion detection, Video shielding, automatic networking, alarm network transmission and other functions*

▸ *Support dual-stream*

▸ *High quality array infrared lights, irradiation distance of 20 m*

▸ *Maximum support dual filter automatic switching, true day and night surveillance equipment*

▸ *Provide SDK facilitates integration and secondary development*

▸ *IP66 waterproof design, high reliability*

## Parameters:

| Parameters / Series | | HB871S-AR | |
|---|---|---|---|
| Model | | HB871S-AR | HB871S-AR-P |
| Description | | 1.4 Mega pixels HD IR Low illumination Conch IP Camera | |
| OnVif | | Support | |
| Specification | Imaging Device | 1/3″ Sony Line by line scanning CMOS | |
| | Effective Pixels | 1280(H)×1024(V) | |
| | Minimum illumination | Color 0.05Lux, black and white 0 Lux | |
| | SNR | >50dB | |
| | Gain Control | Auto / Manual (0dB ~ +36 dB) | |
| | White Balance | Auto | |
| | Electronic Shutter | Auto / Manual(1/25s ~ 1/8000s) | |
| | Exposure Control | Auto | |
| | Lens parameters | M12,Standard 3.6mm,6mm optional | |
| | Day and night | ICR | |
| | IR parameters | 20m(LED Array) | |
| Video | Video Coding | H.264 Main Profile | |
| | Video Resolution | 960P(1280×960) | |
| | Image resolution (dual-stream) | 960p+D1 | |
| | Maximum frame rate | 50Hz: 25f/s, 60Hz: 30f/s | |
| | Output rate | 32Kbps~4Mbps | |
| | Image parameter settings | Brightness, color, contrast, saturation can be adjusted through IE browser Client | |
| | Ultra-illumination effect | Support | |
| Network | Network Protocol | TCP/IP,HTTP,DHCP,DNS,NTP,SNMP,DDNS,SMTP,RTP/RTSP | |
| | Security | Password protection, multi-level user management | |
| Interface | Network Interface | 1 RJ45, 10M/100M adaptive Ethernet port | |
| | PoE | No | Yes |
| General | Power supply | DC12V ±10% | |
| | Power Consumption | 5W | |
| | Work Environment | -10℃ ~ +55℃ | |

# HB752S-ARX
## 2.0 Mega pixels HD IR Low illumination Bullet IP Camera

## Features:

▶ Image resolution up to 2.0 Mega pixels, using advanced H.264 video compression technology, support for HD video encoding; support wide dynamic function

▶ Built-in motion detection, Video shielding, automatic networking, alarm network transmission and other functions

▶ Support dual-stream

▶ High quality array infrared lights, irradiation distance of 50 m

▶ Maximum support dual filter automatic switching, true day and night surveillance equipment

▶ Provide SDK facilitates integration and secondary development

▶ IP66 waterproof design, high reliability

## Parameters:

| Parameters / Series | | HB752S-ARX | | | |
|---|---|---|---|---|---|
| Model | | HB752S-AR3 | HB752S-AR3-P | HB752S-AR5 | HB752S-AR5-P |
| OnVif | | Support | | | |
| Description | | 2.0 Mega pixels HD IR Low illumination Bullet IP Camera | | | |
| Specification | Imaging Device | 1/2.8″ Sony Line by line scanning CMOS | | | |
| | Effective Pixels | 1920(H)×1080(V) | | | |
| | Minimum illumination | Color 0.05Lux, black and white 0 Lux | | | |
| | SNR | >50dB | | | |
| | Gain Control | Auto / Manual (0dB ~ +36 dB) | | | |
| | White Balance | Auto | | | |
| | Electronic Shutter | Auto / Manual(1/25s ~ 1/8000s) | | | |
| | Exposure Control | Auto | | | |
| | Lens parameters | M12,Standard 6mm, 3.6/8mm optional | | M12,Standard 6/8/12mm, 16mm optional | |
| | Day and night | ICR | | | |
| | IR parameters | 30m(LED Array) | | 50m(LED Array) | |
| Video | Video Coding | H.264 Main Profile | | | |
| | Video Resolution | 1080P(1920×1080) | | | |
| | Image resolution (dual-stream) | 1080p+D1 | | | |
| | Maximum frame rate | 50Hz: 25f/s, 60Hz: 30f/s | | | |
| | Output rate | 32Kbps~8Mbps | | | |
| | Image parameter settings | Brightness, color, contrast, saturation can be adjusted through IE browser Client | | | |
| | Ultra-illumination effect | Support | | | |
| Audio | Audio Coding | G.711 | | | |
| | Audio output rate | 64Kbps | | | |
| Network | Network Protocol | TCP/IP,HTTP,DHCP,DNS,NTP,SNMP,DDNS,SMTP,RTP/RTSP | | | |
| | Security | Password protection, multi-level user management | | | |
| Interface | Network Interface | 1 RJ45, 10M/100M adaptive Ethernet port | | | |
| | Audio / intercom input | 1ch Audio In,Support Intercom | | | |
| | Audio Output | 1ch Line Output | | | |
| | Analog video output | 1 BNC analog video output | | | |
| | Alarm Input | 1 ch switch input | | | |
| | Alarm Output | No.1 ch switch output | | | |
| | Memory interfaces | Built-in TF card and eMMC card (optional) | | | |
| | PoE | No | Yes | No | Yes |
| General | Power supply | DC12V ±10% | | | |
| | Power Consumption | 5W | | | |
| | Work Environment | -10℃ ~ +55℃ | | | |

# HANBANG

## HB852S-IR
## 2.0 Mega pixels HD IR Low illumination Conch IP Camera

## Features:

▶ Image resolution up to 2.0 Mega pixels, using advanced H.264 video compression technology, support for HD video encoding; support wide dynamic function

▶ Built-in motion detection, Video shielding, automatic networking, alarm network transmission and other functions

▶ Support dual-stream

▶ High quality array infrared lights, irradiation distance of 20 m

▶ Maximum support dual filter automatic switching, true day and night surveillance equipment

▶ Provide SDK facilitates integration and secondary development

▶ IP66 waterproof design, high reliability

## Parameters:

| Parameters | Series | HB852S-IR | |
|---|---|---|---|
| Model | | HB852S-IR | HB852S-IR-P |
| OnVif | | Support | |
| Description | | 2.0 Mega pixels HD IR Low illumination Dome IP Camera | |
| Specification | Imaging Device | 1/2.8″ Sony Line by line scanning CMOS | |
| | Effective Pixels | 1920(H)×1080(V) | |
| | Minimum illumination | Color 0.05Lux, black and white 0 Lux | |
| | SNR | >50dB | |
| | Gain Control | Auto / Manual (0dB ~ +36 dB) | |
| | White Balance | Auto | |
| | Electronic Shutter | Auto / Manual(1/25s ~ 1/8000s) | |
| | Exposure Control | Auto | |
| | Lens parameters | M12,Standard 6mm, 3.6mm optional | |
| | Day and night | ICR | |
| | IR parameters | 20m(LED Array) | |
| Video | Video Coding | H.264 Main Profile | |
| | Video Resolution | 1080P(1920×1080) | |
| | Image resolution (dual-stream) | 1080p+D1 | |
| | Maximum frame rate | 50Hz: 25f/s, 60Hz: 30f/s | |
| | Output rate | 32Kbps~8Mbps | |
| | Image parameter settings | Brightness, color, contrast, saturation can be adjusted through IE browser Client | |
| | Ultra-illumination effect | Support | |
| Audio | Audio Coding | G.711 | |
| | Audio output rate | 64Kbps | |
| Network | Network Protocol | TCP/IP,HTTP,DHCP,DNS,NTP,SNMP,DDNS,SMTP,RTP/RTSP | |
| | Security | Password protection, multi-level user management | |
| Interface | Network Interface | 1 RJ45, 10M/100M adaptive Ethernet port | |
| | Audio / intercom input | 1ch Audio In,Support Intercom | |
| | Audio Output | 1ch Line Output | |
| | Analog video output | 1 BNC analog video output | |
| | Alarm Input | 1 ch switch input | |
| | Alarm Output | No.1 ch switch output | |
| | Memory interfaces | Built-in TF card and eMMC card (optional) | |
| | PoE | No | Yes |
| General | Power supply | DC12V ±10% | |
| | Power Consumption | 5W | |
| | Work Environment | -10℃ ~ +55℃ | |

## Achievements and Awards Received in Recent Few Years

▶ A key high-tech enterprise of China Torch Plan
▶ 2012 Forbes China most potential non-listed company ranked 46th
▶ AAA level credit enterprise
▶ China Smart City Construction Recommend Brands
▶ 2012 Top 10 Innovative Security Products
▶ GPS Top 100 Chinese Security Companies in 2012
▶ A&S Top 10 Security Brand in China 2011
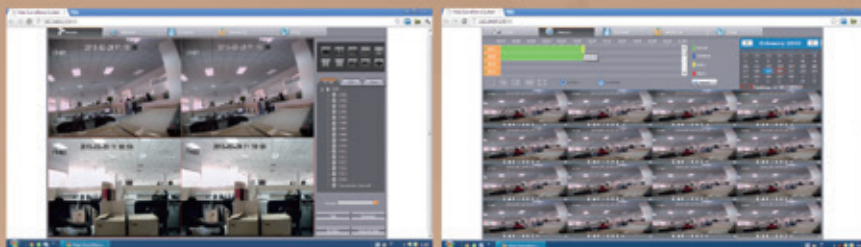▶ Top 10 2011 Security Nation Brands

## Certification
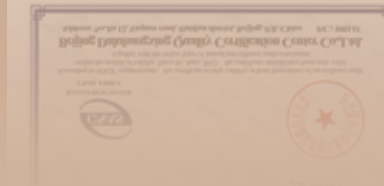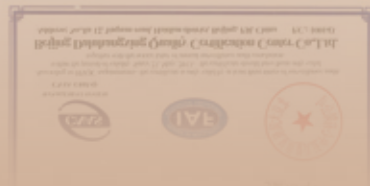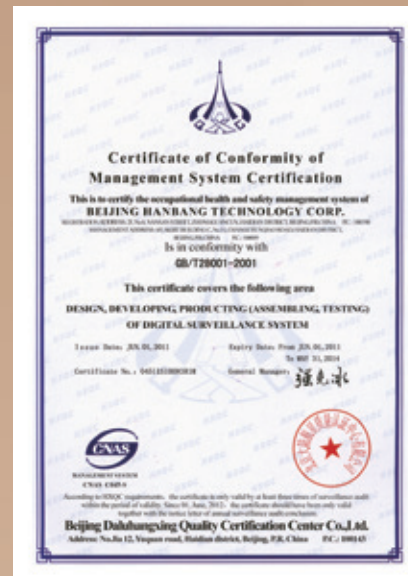
## Software System

### 3G Applications

1.A variety of mobile terminal    2.8CH preview & 1 CH playback    3.VOD



### Browser

1.IE/Safari/Firefox/Chrome    2.1/4/6/8/9/16/25/36/42 CH display    3.Fully configuration DVR function



### DVR Client

1.Support all HB products(DVR/NVR/IPC)    2.Friendly operation interface    3.TV Wall
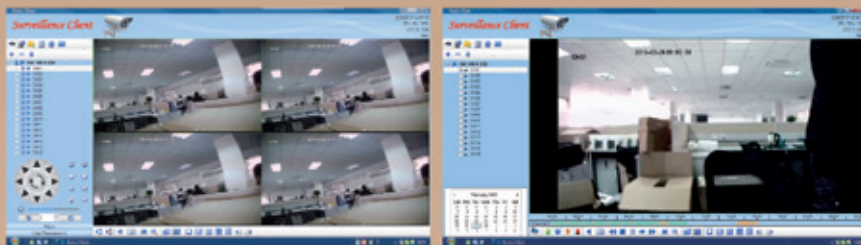


### CMS

1.UP to 800CH for free    2.Device and cameras status notifications    3.Concentrated storage&management

## Partial Application

### Transportation Industry



Capital Airport



Beijing West Railway Station

### Public Place



Zimbabwe gymnasium

### Financial Centre



China ABC Bank

### Education Industry



Beijing University



Sea-crossing Bridge



Argentina Bank



Yildiz Soray Istanbul Museum

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