



TOMURA™ FHD
X3 SERIES



เพื่อป้องกันการบุกรุก
และป้องกันการโจรกรรมข้อมูล



Feature

- Video input: Composite video input AHD1080P, PAL (25fps), NTSC (30fps), BNC (1Vp-p, 75Ω)
- Video compression: Compression arithmetic H.264 Code stream type: VBR/CBR Default resolution 1080P, 720P @15fps/ch; 960H: PAL (928*576) 25 fps/ch
- Video output:
 - 1 channel composite video output, PAL (625 line), AHD BNC (1Vp-p, 75Ω)
 - 1 channel analog video output (VGA)
 - 1 channel HD digital video output (HDMI)
- Audio input: RCA interface, input resistance: 10K , input extent: Vp-p=2.0V LINE
- Audio output: RCA interface, input resistance: 10K , input extent: Vp-p=2.0V LINE
- Voice chat: Input (3.5MM interface, input resistance: 10K , input extent: Vp-p=2.0V LINE in/50mV MIC in)
- Audio compression: Compression arithmetic G.711A/U, Audio sampling rate 8K sample/sec., 16 bit/sample
- Operation System: Linux
- HDD interface: support 48bit LBA working mode
- 4ROI , 4 Privacy mark
- Alarm interface
 - Alarm input: Alarm input support normal on/off
 - Alarm output: Normal on, relay output
- Video tamper alarm, video loss alarm , motion detection alarm, temperature and others alarm.
- Serial interface: RS485 (half-duplex), network transparent and COM control keyboard
- Support 3G aircard, E-mail with image attached.
- Operation method: Multi-function IR remote control (can be controlled by front panel, USB mouse, COM keyboard)
- Backup interface: USB2.0 interface
- PC Control software shows 100windows , google Map with alarm , device status , Remote upgrade firmware, CMS also support TOMURA Hikvision Dahua Device.
- Network port: RJ45 10M/100M/1000M Ethernet Interface
- Power supply: 220V± 30%, 50± 3%Hz, 110V± 20%, 6 ± 3%Hz

| Model | X3104AFHD | X3108AFHD | X3216AFHD |
|-------------------------------|---|---|---|
| AHD video input | 4 Ch. / BNC interface (1.0Vp-p, 75Ω) | 8 Ch. / BNC interface (1.0Vp-p, 75Ω) | 16 Ch. / BNC interface (1.0Vp-p, 75Ω) |
| Supported camera types | AHD / Analog, 1080P30, 1080P25, 720P30, 720P25, 960H | AHD / Analog, 1080P30, 1080P25, 720P30, 720P25, 960H | AHD / Analog, 1080P30, 1080P25, 720P30, 720P25, 960H |
| Audio input | 2 Ch. / RCA interface (2.0Vp-p, 1KΩ) | 2 Ch. / RCA interface (2.0Vp-p, 1KΩ) | 2 Ch. / RCA interface (2.0Vp-p, 1KΩ) |
| HDMI / VGA output | 1080p (1920×1080)/60Hz, 720p (1280×720)/60Hz, UXGA (1600×1200)/60Hz, 1280×1024/60Hz | 1080p (1920×1080)/60Hz, 720p (1280×720)/60Hz, UXGA (1600×1200)/60Hz, 1280×1024/60Hz | 1080p (1920×1080)/60Hz, 720p (1280×720)/60Hz, UXGA (1600×1200)/60Hz, 1280×1024/60Hz |
| Audio output | RCA (Linear, 1KΩ) | RCA (Linear, 1KΩ) | RCA (Linear, 1KΩ) |
| Video compression | H.264 | H.264 | H.264 |
| Dual-stream | Support | Support | Support |
| Encoding resolution | 1080P (1920×1080), 720P (1280×720), 960H, D1 | 1080P (1920×1080), 720P (1280×720), 960H, D1 | 1080P (1920×1080), 720P (1280×720), 960H, D1 |
| Frame rate | 60fps | 120fps | 240fps |
| Audio compression | G.711u | G.711u | G.711u |
| Synchronous playback | All channel synchronous playback | All channel synchronous playback | All channel synchronous playback |
| SATA | 1× SATA interface for 1 HDD | 1× SATA interface for 1 HDD | 2× SATA interfaces for 2 HDDs |
| Capacity | Up to 8TB capacity for each HDD | Up to 8TB capacity for each HDD | Up to 8TB capacity for each HDD |
| Network | 1× 10/100Mbps self-adaptive RJ45 interface | 1× 10/100Mbps self-adaptive RJ45 interface | 1× 10/100/1000Mbps RJ45 interface |
| USB | Rear panel: 2× USB2.0 | Rear panel: 2× USB2.0 | Front panel: 1× USB2.0, Rear panel: 1× USB2.0 |
| Alarm | 4 in / 1 out | 4 in / 1 out | 4 in / 1 out |
| RS-485 | N/A | 1× RS485 interface | 1× RS485 interface |
| e-SATA | N/A | N/A | N/A |
| Power supply | 12V 24W | 12V 24W | 12V 40W |
| Operating condition | -10°C – 55°C (14°F – 131°F), Humidity 10 - 90% | -10°C – 55°C (14°F – 131°F), Humidity 10 - 90% | -10°C – 55°C (14°F – 131°F), Humidity 10 - 90% |
| Dimensions (W×D×H) | 380×290×45mm (15"×11.4"×1.8") | 380×290×45mm (15"×11.4"×1.8") | 440×301.5×70.1mm (17.3"×11.8"×2.7") |

| Product Model | X3104AFHD | X3108AFHD | X3216AFHD |
|-----------------------------|---|-----------------|-----------------|
| RJ45 | 100M | 100M | 1000M |
| Alarm Input | 4 | 4 | 4 |
| Alarm Output | 1 | 1 | 1 |
| RS485 | 1 (half-duplex) | 1 (half-duplex) | 1 (half-duplex) |
| IR Extension | × | × | × |
| +12V Output (Alarm used) | 1 | 1 | 1 |
| Power Supply | DC 12V 24W | DC 12V 24W | DC 12V 24W |
| Mouse | √ | √ | √ |
| HB3.0 Protocol | √ | √ | √ |
| Network Protocol | TCP/IP, PPPoE, uPnP, FTP, NTP, DST, DHCP, DDNS, P2P, 3G | | |
| Web browser | Chrome, I.E., Firefox, Safari, CMS | | |
| Mobile | iOS, Android | | |
| CCC Certification | √ | √ | √ |
| CE Certification | √ | √ | √ |
| FCC Certification | √ | √ | √ |
| RoHS Certification | √ | √ | √ |