

Code: APTI-XB1604H-S31
AHD, HD-CVI, HD-TVI, CVBS, TCP/IP DVR APTI-XB1604H-S31 16 CHANNELS

## Warning!

Please read the user manual included in this work as it contains important information related with safety of installation and use of the device.

Only persons who read the user manual may use the device.

The user manual must be kept because it may be required in the future. The device is to be used exclusively for purposes specified in this user manual.

The device must be unpacked prior to starting-up. After removing the packaging make sure the device is in working order. If the product has defects, it should not be used until it is repaired.

The product is intended for use at home and commercial use and may not be used for other than intended use.

The manufacturer is not liable for damages resulting from not adhering to the rules contained in the user manual, therefore, we recommend to follow the aforementioned safety rules for operation and maintenance of the device. In this way you will ensure yourself safety and avoid causing damage to the device.

The manufacturer and the supplier are not liable for losses or damages arising out of the product, including financial or intangible losses, loss of profits, income, data, pleasure from use of the product or other products related with it - indirect, incidental or consequential loss or damage. The above provisions apply whether the loss or damage concerns:

- 1. Deterioration of quality or the lack of operation of the products or products related with it due to damage as well as the lack of access to the product when it is undergoing repair, which results in stoppage the loss of user's time or a break in business activity;
- 2. Improper results of operation of the product or products related with it;
- 3. It applies to losses and damages according to any legal category, including negligence and other losses, termination of a contract, expressed or implied guarantee and strict liability (even if the manufacturer or the supplier was notified about the possibility of occurrence of such damages).

#### Safety measures:

Particular attention at designing was directed to quality standards of the device where ensuring safety of operation is the most important factor.

The device must be secured against contact with caustic, staining and viscous fluids.

The device was designed in such a way that it restarts operation when power supply is restored after a break.

Attention! We recommend using protections to further protect the device from possible overvoltages in installations. Surge protectors are effective protection against accidental pass to the device voltages higher than the rated. Damages caused by pass the voltages higher than specified in manual, are not under warranty.

Turn off the device before transporting it.

Prior to connecting the device to a power source check whether the supplied voltage is consistent with rated voltage specified in the user manual.

### Proper product disposal:

A marking of a crossed out waste bin indicates that the product may not be disposed together with other household waste in the entire EU. To avoid possible damage to the natural environment of health due to uncontrolled waste disposal, therefore, it should be handed over for recycling, propagating in this way sustainable use of natural resources.

To return a worn-out product, use a collection and disposal system of this type of equipment or contact a seller from whom it was purchased. He will then be recycled in an environmentally-friendly way.

The APTI-XB1604H-S31 digital recorder with AHD (Analog High Definition), HD-CVI (High Definition Composite Video Interface), HD-TVI (High Definition Transport Video Interface), TCP/IP and CVBS interface is a professional device applicable in surveillance systems.

The menu options layout has been designed for all users, even beginners can easy navigate and change parameters in DVR settings without any problem.





## Code: APTI-XB1604H-S31 AHD, HD-CVI, HD-TVI, CVBS, TCP/IP DVR **APTI-XB1604H-S31** 16 CHANNELS

Standard:	AHD, HD-CVI, HD-TVI, CVBS, TCP/IP
Video inputs:	16 pcs BNC - AHD / HD-CVI / HD-TVI / CVBS
Video outputs:	• 1 pcs HDMI • 1 pcs VGA • 1 pcs CVBS - BNC socket
Audio inputs:	12 pcs CINCH
Audio outputs:	1 pcs CINCH
Image compression method:	H.265+ / H.265 / H.264+ / H.264
Image records resolutions:	• AHD / HD-TVI : 8M-N - 1920 x 2160 px, 5 Mpx - 2592 x 1944 px, 5M-N - 1296 x 1944 px, 4 Mpx - 2560 x 1440 px, 4 Mpx - 2560 x 1440 px, 3 Mpx - 2048 x 1536 px, 1080p - 1920 x 1080 px, 1080N - 960 x 1080 px, 720p - 1280 x 720 px,  • HD-CVI : 8M-N - 1920 x 2160 px, 4 Mpx - 2560 x 1440 px, 1080p - 1920 x 1080 px, 1080p - 1920 x 1080 px, 7080p - 1920 x 1080 px, 1080p - 1920 x 1080 px, 1080p - 1920 x 1080 px, 1080h - 960 x 1080 px, 720p - 1280 x 720 px,  • CVBS : 960H - 960 x 576 px,  • IP : max. 8.3 Mpx - 3840 x 2160 px
Recording speed adjustment:	8.3 Mpx IP @ 1 25 fps 8M-N @ 1 8 fps 5 Mpx @ 1 6 fps 5M-N @ 1 10 fps 4 Mpx @ 1 8 fps 4M-N @ 1 15 fps 3 Mpx @ 1 9 fps 1080p @ 1 15 fps 1080N @ 1 25 fps 720p @ 1 25 fps 960H @ 1 25 fps for each channel
Operation modes:	• 16 x AHD / HD-CVI / HD-TVI / CVBS + 8 x IP max. 8.3 Mpx • 14 x AHD / HD-CVI / HD-TVI / CVBS + 11 x IP max. 8.3 Mpx • 12 x AHD / HD-CVI / HD-TVI / CVBS + 13 x IP max. 8.3 Mpx • 10 x AHD / HD-CVI / HD-TVI / CVBS + 15 x IP max. 8.3 Mpx • 8 x AHD / HD-CVI / HD-TVI / CVBS + 17 x IP max. 8.3 Mpx • 6 x AHD / HD-CVI / HD-TVI / CVBS + 19 x IP max. 8.3 Mpx • 4 x AHD / HD-CVI / HD-TVI / CVBS + 21 x IP max. 8.3 Mpx • 2 x AHD / HD-CVI / HD-TVI / CVBS + 23 x IP max. 8.3 Mpx • 32 x IP max. 8 Mpx
Recording modes:	Motion Detection, Schedule
Supported hard drives:	4 x 8 TB SATA
External storage devices backup:	Records backup at (.avi) format to USB (pendrive)



## Code: APTI-XB1604H-S31 AHD, HD-CVI, HD-TVI, CVBS, TCP/IP DVR **APTI-XB1604H-S31** 16 CHANNELS

recorder parameters  Port no.: 6000 or access by a cloud (P2P) Android: Free application BitVision, Android: Free application iVMS320 iOS (iPhone): Free application BitVision, iOS: Free application iVMS320  Default IP address:  192.168.1.88  Default admin user / password:  80, 5000, 554  Web browser access ports:  80, 5000, 554  PC client access ports:  80, 5000, 554  Mobile client access ports:  80, 5000, 6000  Alarm inputs / outputs:  16 / 4  PTZ control:  Pelco-D, Pelco-P  Motion Detection:  Split the screen into zones: 22 x 18 motion zones  Intelligent image analysis:  Comparison of faces in images from max. 4 cameras with images in the database (1 database with max. 10 images)  USB:  2 pcs USB 2.0  Mouse support:  IR remote controller in the set:  —  Power supply:  230 V AC  Color:  Black  Weight:  4.18 kg		
DVR mode   max   16 Chamnels @ 8M-N		Records searching: timeline or file list. Playback: forward, backward, fast, slow.
max. 16 Channels @ 8M-N  - XVR mode : max. 1 Channels @ 10 Mpx max. 2 Channels @ 10 Mpx max. 4 Channels @ 10 Mpx max. 9 Channels @ 10 Mpx max. 10 Channels @ 10 Mpx max.		
max 1 Channels @ 8 Mpx max 2 Channels @ 6 4 Mpx max 2 Channels @ 1080p  • NVR mode: max 4 Channels @ 1080p  • Notwork interface:  1 x R 4 5 - 10/100/1000 Base-T  Network functions:  • Network Client Software (iVMS320): live view, playback and backup of the records electroristic of the records and contiguration of the records recorder parameters  Network functions:  • Network Client Software (iVMS320): live view, playback and backup of the records electroristic of the records electroristic of the records electroristic of the records and contiguration of the records and contiguration of the records applications of the records and contiguration of the records application in the records electroristic of the records electroristic electroristic of the records electroristic of the records electroristic		
max. 2 Channels @ 4 Mpx max. 3 Channels @ 3 Mpx max. 4 Channels @ 1080p  NVR mode: max. 2 Channels @ 8 Mpx max. 4 Channels @ 1080p  NVR mode: max. 2 Channels @ 8 Mpx max. 4 Channels @ 1080p  NVR mode: max. 2 Channels @ 3 Mpx max. 4 Channels @ 1080p  Network interface:  1 x RJ-45 - 10/100/1000 Base-T  Network functions:  Port no.: 6000 or access by a cloud (P2P) - Android: Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320 - 10/10 Free application BitVision. Android: Free application IVMS320		
max. 3 Channels @ 3 Mpx max. 4 Channels @ 1080p  • NVR mode: max. 2 Channels @ 6 Mpx max. 4 Channels @ 5 Mpx max. 4 Channels @ 5 Mpx max. 4 Channels @ 5 Mpx max. 5 Channels @ 3 Mpx max. 5 Channels @ 1000p  • Network interface:  1 x RJ-45 - 107100/1000 Base-T  • Network functions:  Port no.: 6000 or access by a cloud (P2P) • Android: Free application PMVS320) live view, playback and backup of the records • 10 Fort no.: 6000 or access by a cloud (P2P) • Android: Free application BitVision, Android: Free application 1/MS320 • 10 St (Phone): Free application BitVision, 10 St. Free application 1/MS320  Port no.: 6000 or access by a cloud (P2P) • Android: Free application BitVision, 10 St. Free application 1/MS320 • 10 St (Phone): Free application BitVision, 10 St. Free application 1/MS320  Port no.: 6000 or access by a cloud (P2P) • Android: Free application BitVision, 10 St. Free application 1/MS320  Port no.: 6000 or access by a cloud (P2P) • Android: Free application BitVision, 10 St. Free application 1/MS320  Port no.: 6000 or access by a cloud (P2P) • Android: Free application BitVision, 10 St. Free application 1/MS320  Port no.: 6000 or access by a cloud (P2P) • Android: Free application BitVision, 10 St. Free application 1/MS320  Pole and 1/2345  Web browser access ports:  80,5000,554  80,5000,554  80,5000,554  80,5000,554  80,5000,554  80,5000,6000  Alarm inputs / outputs:  16 / 4  PTZ control: Pelco-D. Pelco-P  Pelco-D. Pelco-P  Wotion Detection: Split the screen into zones: 22 x 18 motion zones  Intelligent image analysis: database with max. 10 images)  USB: 2 pcs USB 2.0  Mouse support:  Alarm impus / outputs images in the database (1 database with max. 10 images)  USB: 2 pcs USB 2.0  Black  Weight: Ala kg  Dimensions: 440 x 377 x 72 mm  Polish, English, Bulgarian, Czech, French, Spanish, Gorman, Portuguese, Russian, Turkish, Hungarian, Italian		max. 2 Channels @ 5 Mpx
max. 4 Channels @ 1080p  NVR mode: max. 2 Channels @ 8 Mpx max. 4 Channels @ 5 Mpx max. 4 Channels @ 5 Mpx max. 4 Channels @ 5 Mpx max. 5 Channels @ 3 Mpx max. 5 Channels @ 3 Mpx max. 5 Channels @ 3 Mpx max. 5 Channels @ 1080p  Network interface:  1 x RJ-45 - 10/100/1000 Base-T  Network functions:  - Network functions:  - Port no. 6000 or access by a cloud (PZP) - Android-Free application BitVision, Android-Free application of the recorder parameters - Android-Free application BitVision, Android-Free application IVMS320 - 10S (IPhone): Free application BitVision, IOS: Free application IVMS320 - 10S (IPhone): Free application BitVision, IOS: Free application IVMS320  Default IP address:  192.168.1.88  Default admin user / password:  80.5000, 554  Web browser access ports:  80.5000, 554  Web browser access ports:  80.5000, 554  Mobile client access ports:  80.5000, 6000  Alarm inputs / outputs:  16 / 4  PTZ control:  Pelco-D, Pelco-P  Motion Detection:  Split the screen into zones : 22 x 18 motion zones  Litelligent image analysis:  Comparison of faces in images from max. 4 cameras with images in the database (1 database with max. 10 images)  USB:  2 pes USB 2.0  Mouse support:	Searching and playback the records:	
max. 2 Channels ⊕ 8 Mpx max. 4 Channels ⊕ 6 Mpx max. 4 Channels ⊕ 6 Mpx max. 5 Channels ⊕ 1 Mpx max. 9 Channels ⊕ 1080p  Network interface:  1 x RJ-45 - 10/100/1000 Base-T  Network functions:  1 x RJ-45 - 10/100/1000 Base-T  Network functions:  2 Network Client Software (tVMS220): live view, playback and backup of the records 1 Eb rowser: live view, playback and backup of the records and configuration of the recorder parameters  Mobile phones support:  4 Android: Pree application BitVision, Android: Pree application IVMS320 10S (Phone): Pree application BitVision, IOS: Free application IVMS320 10S (Phone): Pree application BitVision, IOS: Free application IVMS320 10S (Phone): Pree application BitVision, IOS: Free application IVMS320  Pofault IP address:  192.168.1.88  Default admin user / password:  80, 5000, 554  80, 5000, 554  80, 5000, 554  Mobile client access ports:  80, 5000, 6000  Alarm inputs / outputs:  16 / 4  PTZ control:  Pelco-D. Pelco-P  Motion Detection:  Split the screen into zones : 22 x 18 motion zones  Intelligent image analysis:  Comparison of faces in images from max. 4 cameras with images in the database (1 database with max. 10 images)  USB:  2 pcs USB 2.0  Mouse support:  ✓  R remote controller in the set:  —  Power supply:  230 V AC  Color:  Black  Weight:  440 x 377 x 72 mm  Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian		
max. 4 Channels @ 5 Mpx max. 3 Channels @ 1 Mpx max. 9 Channels @ 1080p  Network interface:  1 x R]-45 - 10/100/1000 Base-T  Network functions:  - Network Client Software (iVMS320): live view, playback and backup of the records - IE browser: liv		
max. 9 Channels @ 18 Mpx max. 9 Channels @ 1080p  Network interface:  1 x RJ45 - 10/100/1000 Base-T  - Network functions:  - Network functions:  Port no.: 6000 or access by a cloud (P2P) - Android: Free application BitVision, Android: Free application iVMS320 - iOS (iPhone): Free application BitVision, Android: Pree application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS: Free application iVMS320 - iOS (iPhone): Free application BitVision, iOS (iPhone): Free application iVMS3		max. 4 Channels @ 5 Mpx
Network interface:  1 x RJ-45 - 10/100/1000 Base-T  - Network Client Software (IVMS320): live view, playback and backup of the records in Ebrowser: live view, playback and backup of the records and configuration of the recorder parameters  Port no.: 6000 or access by a cloud (P2P) - Android: Free application BitVision, Android: Free application IVMS320 - iOS (IPhone): Free application BitVision, iOS: Free application IVMS320 - iOS (IPhone): Free application BitVision, iOS: Free application IVMS320 - iOS (IPhone): Free application BitVision, iOS: Free application IVMS320  Default admin user / password:  80, 5000, 554  PC client access ports: 80, 5000, 554  Mobile client access ports: 80, 5000, 554  Mobile client access ports: 80, 5000, 6000  Alarm inputs / outputs: 16 / 4  PTZ control: Pelco-D, Pelco-P  Motion Detection: Split the screen into zones: 22 x 18 motion zones  Comparison of faces in images from max. 4 cameras with images in the database (1 database with max. 10 images)  USB: 2 pcs USB 2.0  Mouse support:  IR remote controller in the set:  —  Power supply: 230 V AC  Color: Black  Weight: 4.18 kg  Dimensions: 440 x 377 x 72 mm  Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian		max. 5 Channels @ 3 Mpx
Network functions:  - Network Client Software (IVMS320): live view, playback and backup of the records - 1E browser: live view, playback and backup of the records - 1E browser: live view, playback and backup of the records and configuration of the recorder parameters  - Port no.: 6000 or access by a cloud (P2P) - Android: Free application BitVision, Android: Free application IVMS320 - 1OS (IPhone): Free application BitVision, IOS: Free application IVMS320 - 1OS (IPhone): Free application BitVision, IOS: Free application IVMS320  - Default IP address:  - 192.168.1.88 - 1		
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Mobile phones support:  Port no.: 6000 or access by a cloud (P2P) - Android: Free application BitVision, Android: Free application iVMS320 - (OS (IPhone): Free application BitVision, IOS: Free application IVMS320  Default IP address:  192.168.1.88  Default admin user / password:  admin / 12345  Web browser access ports:  80, 5000, 554  PC client access ports:  80, 5000, 554  Mobile client access ports:  80, 5000, 6000  Alarm inputs / outputs:  16 / 4  PTZ control:  Pelco-D, Pelco-P  Motion Detection:  Split the screen into zones: 22 x 18 motion zones  Comparison of faces in images from max. 4 cameras with images in the database (1 database with max. 10 images)  USB:  2 pcs USB 2.0  Mouse support:	Network functions:	• IE browser: live view, playback and backup of the records and configuration of the
Android: Free application BitVision, Android: Free application iVMS320     • iOS (iPhone): Free application BitVision, iOS: Free application iVMS320     192.168.1.88     192.168.1.88     200.000		recorder parameters
• iOS (iPhone): Free application BitVision, iOS: Free application iVMS320  Default IP address: 192.168.1.88  Default admin user / password: admin / 12345  Web browser access ports: 80, 5000, 554  PC client access ports: 80, 5000, 554  Mobile client access ports: 80, 5000, 6000  Alarm inputs / outputs: 16 / 4  PTZ control: Pelco-D, Pelco-P  Motion Detection: Split the screen into zones : 22 x 18 motion zones  Intelligent image analysis: Comparison of faces in images from max. 4 cameras with images in the database (1 database with max. 10 images)  USB: 2 pcs USB 2.0  Mouse support:   IR remote controller in the set: —  Power supply: 230 V AC  Color: Black  Weight: 4.18 kg  Dimensions: 440 x 377 x 72 mm  Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian	Mobile phones support:	Port no.: 6000 or access by a cloud (P2P)  • Android: Free application BitVision, Android: Free application iVMS320
Default admin user / password:  admin / 12345  Web browser access ports:  80, 5000, 554  PC client access ports:  80, 5000, 554  Mobile client access ports:  80, 5000, 6000  Alarm inputs / outputs:  16 / 4  PTZ control:  Pelco-D, Pelco-P  Motion Detection:  Split the screen into zones : 22 x 18 motion zones  Intelligent image analysis:  Comparison of faces in images from max. 4 cameras with images in the database (1 database with max. 10 images)  USB:  2 pcs USB 2.0  Mouse support:  ✓  IR remote controller in the set:  —  Power supply:  230 V AC  Color:  Black  Weight:  4.18 kg  Dimensions:  440 x 377 x 72 mm  Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian		
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Power supply:  230 V AC  Color:  Black  Weight:  4.18 kg  Dimensions:  440 x 377 x 72 mm  Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian	USB:	2 pcs USB 2.0
Power supply:  230 V AC  Color:  Black  Weight:  4.18 kg  Dimensions:  440 x 377 x 72 mm  Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian	Mouse support:	<u> </u>
Color: Black Weight: 4.18 kg  Dimensions: 440 x 377 x 72 mm  Supported languages: Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian	IR remote controller in the set:	-
Weight: 4.18 kg  Dimensions: 440 x 377 x 72 mm  Supported languages: Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian	Power supply:	230 V AC
Dimensions:  440 x 377 x 72 mm  Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian	Color:	Black
Supported languages:  Polish, English, Bulgarian, Czech, French, Spanish, German, Portuguese, Russian, Turkish, Hungarian, Italian	Weight:	4.18 kg
Supported languages:  Turkish, Hungarian, Italian	Dimensions:	440 x 377 x 72 mm
Country of origin: China	Supported languages:	
	Country of origin:	China



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Manufacturer / Brand:	APTI
Guarantee:	2 years

### Front panel:



#### Rear view:



See how to mount a hard disk drive and configure the recorder:

In the kit:



#### PACKAGE

Dimensions (L x W x H): 0x0x0 mm Gross Weight: 0 kg

