

Code: APTI-KIT-NVR-20V2

## SURVEILLANCE KIT **APTI-KIT-NVR-20V2** 4 CHANNELS - 1080p 3.6 mm

The surveillance kit includes 4 cameras, DVR with Seagate 1TB hard disk, DC 48V/1.25A power adapter and 4 connecting cables with 20 m length each. The recorder included in the kit has a built-in 4-port PoE switch, so you can power the attached cameras directly from the recorder.

The H.264 video compression standard using to record video data, allows to get the best possible quality of recorded image at minimal network transfer and disk storage capacity. The menu options layout has been designed for all users, even beginners can easy navigate and change parameters in DVR settings without any problem.

IP camera with efficient H.264 image compression algorithm for clear and smooth video streaming at maximal resolution of 1080p.

**Attention!** The DVR has installed the Seagate 1TB ST1000VM002 hard disk.



|                                     |                                                                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Standard:                           | TCP/IP                                                                                                                          |
| Supported resolutions:              | 4 @ 1920 x 1080 px,<br>4 @ 1280 x 960 px,<br>4 @ 1280 x 720 px                                                                  |
| Audio support:                      | 4 Channels - Audio from cameras                                                                                                 |
| Video outputs:                      | 1 pcs HDMI<br>1 pcs VGA                                                                                                         |
| Audio outputs:                      | —                                                                                                                               |
| Audio inputs:                       | —                                                                                                                               |
| Image compression method:           | H.264                                                                                                                           |
| Maximal total frame rate:           | 100 fps @ 1920 x 1080 px,<br>100 fps @ 1280 x 960 px,<br>100 fps @ 1280 x 720 px                                                |
| Supported hard drives:              | 1 x 6 TB SATA, In the kit : 1 TB Seagate                                                                                        |
| Recording modes:                    | Manual, Motion Detection, Schedule                                                                                              |
| Network protocols:                  | ONVIF, Private                                                                                                                  |
| External storage devices backup:    | Records backup at (.avi) format to USB (pendrive)                                                                               |
| Searching and playback the records: | Records searching: timeline or file list. Playback: forward, fast<br>Playback max. 1 camera in the same time                    |
| Network functions:                  | Network Client Software and IE browser: live view, playback and backup of the records, configuration of the recorder parameters |
| Bitrate:                            | 24 Mbps                                                                                                                         |



# DATA SHEET

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| ONVIF:                           | 2.4                                                                                                                                                               |
| Mobile phones support:           | Port no.: 554 or access by a cloud (P2P)<br>• Android: Free application <a href="#">FREEIP PRO</a><br>• iOS (iPhone): Free application <a href="#">FREEIP PRO</a> |
| Default IP address:              | 192.168.1.88                                                                                                                                                      |
| Default admin user / password:   | admin / 12345                                                                                                                                                     |
| Web browser access ports:        | 80, 554                                                                                                                                                           |
| PC client access ports:          | 5000, 554                                                                                                                                                         |
| Mobile client access ports:      | 554                                                                                                                                                               |
| Port ONVIF:                      | 80                                                                                                                                                                |
| Alarm inputs / outputs:          | —                                                                                                                                                                 |
| PTZ control:                     | IP Speed Dome Cameras                                                                                                                                             |
| Motion Detection:                | Split the screen into zones : 24 x 18 motion zones                                                                                                                |
| Mouse support:                   | ✓                                                                                                                                                                 |
| IR remote controller in the set: | —                                                                                                                                                                 |
| Power supply:                    | 48 V DC / 1.25 A                                                                                                                                                  |
| Operation temp:                  | -10 °C ... 55 °C                                                                                                                                                  |
| Weight:                          | 0.94 kg                                                                                                                                                           |
| Dimensions:                      | 220 x 219 x 53 mm                                                                                                                                                 |
| Supported languages:             | English, Bulgarian, Czech, French, Spanish, German, Polish, Portuguese, Russian, Turkish, Hungarian, Italian                                                      |

## Camera:

|                           |                                                                                                                                                                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor:                   | 1/2.9 " Sony CMOS IMX323                                                                                                                                                                                                                                       |
| Digital Image Processor:  | Hisilicon 3520D                                                                                                                                                                                                                                                |
| Matrix size:              | 2.19 Mpx                                                                                                                                                                                                                                                       |
| Scanning system:          | Progressive                                                                                                                                                                                                                                                    |
| Resolution:               | 1920 x 1080 - 1080p                                                                                                                                                                                                                                            |
| Operation modes:          | The main and sub streams can only occur in the configurations shown below :<br>Firmware 3516CV300_IMX323_TF_W_7.1.38.4<br>• Main stream : 1920 x 1080 + Sub stream : 720 x 480 + 352 x 288<br>• Main stream : 1920 x 1080 + Sub stream : 640 x 480 + 352 x 288 |
| Lens:                     | 3.6 mm                                                                                                                                                                                                                                                         |
| View angle:               | • 72 ° (manufacturer data)<br>• 80 ° (our tests result)                                                                                                                                                                                                        |
| Range of IR illumination: | 20 m                                                                                                                                                                                                                                                           |
| S/N ratio:                | ≥ 52 dB                                                                                                                                                                                                                                                        |
| RS-485 interface:         | —                                                                                                                                                                                                                                                              |





# DATA SHEET

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| Memory card slot:              | —                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Image compression method:      | H.264 / MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Alarm inputs / outputs:        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Audio:                         | —                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Bitrate:                       | 64 ... 12000 kbps                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Main stream frame rate:        | 25 fps @ 1080p                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Network interface:             | 10/100 Base-T - RJ45                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Network protocols:             | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, SMTP                                                                                                                                                                                                                                                                                                                                                                                   |
| WEB Server:                    | Built-in - port 80                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Max. number of on-line users:  | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ONVIF:                         | 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Main features:                 | <ul style="list-style-type: none"><li>• DNR - Digital Noise Reduction</li><li>• ICR - Movable InfraRed filter</li><li>• Flicker Control - The technology eliminates the tiring eyes flickering image effect</li><li>• Possibility to change the resolution, quality and bit rate</li><li>• BLC - Back Light Compensation</li><li>• Motion Detection</li><li>• Privacy zones</li><li>• Mirror - Mirror image</li><li>• Day/Night mode - configurable</li></ul> |
| Mobile phones support:         | Port no.: 80 or access by a cloud (P2P) <ul style="list-style-type: none"><li>• Android: Free application <a href="#">FREEIP</a></li><li>• iOS (iPhone): Free application <a href="#">FREEIP</a></li></ul>                                                                                                                                                                                                                                                    |
| Default IP address:            | 192.168.1.168                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Default admin user / password: | admin / admin                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Web browser access ports:      | 80, 554                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PC client access ports:        | 5000, 554                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mobile client access ports:    | 554                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Port ONVIF:                    | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RTSP URL:                      | rtsp://user:password@ip_address:80/0 - Main stream<br>rtsp://user:password@ip_address:80/1 - Sub stream                                                                                                                                                                                                                                                                                                                                                       |
| Power supply:                  | <ul style="list-style-type: none"><li>• PoE (802.3af),</li><li>• 12 V DC / 500 mA</li></ul>                                                                                                                                                                                                                                                                                                                                                                   |
| Housing:                       | Dome, Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Color:                         | White                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| "Index of Protection":         | IP66                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operation temp:                | -20 °C ... 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Weight:                        | 0.30 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dimensions:                    | Ø 93 x 70 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



# DATA SHEET

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|-----------------------|----------------------------------------------------------------------------------------------------------|
| Supported languages:  | English, Bulgarian, Czech, French, Spanish, Dutch, German, Polish, Portuguese, Russian, Turkish, Italian |
| General information:  |                                                                                                          |
| Connecting cable:     | 4 x 20 m - UTP cat. 5, RJ45                                                                              |
| Power adapter:        | 1 pcs : 48 V / 1.25 A                                                                                    |
| Country of origin:    | China                                                                                                    |
| Manufacturer / Brand: | APTI                                                                                                     |
| Guarantee:            | 2 years                                                                                                  |

