

1.0 Manufacturer

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2.0 Description

Manufacturer shall warrant the NAV2400AI, NAV Recorder, to be free from defects in material and workmanship for three years from the installation date.

Central Management Software Recorder (NAV Recorder) is a total solution for managing network video products including IP cameras. NAV Software HD contains (1) network video recording software, (2) eMap Manager, (3) Database Manager, and (4) Web Server.

Major features include up to 4 channels at 1080P H.264/MJPEG IP cameras, and file downloads, and camera groupings with user authentication integrated within one system application.

One important feature of eMap is the central management system for live monitoring, alarm snapshot management, and map management. IP devices installed at different locations can be represented and managed by using maps.

NAV shall support number of support 4 channels for plate recognition, and total recognition speed of each channel can support up to 6 recognitions per second (total 24 recognitions for 4 channels).

NAV shall support application field for freeway, and vehicle detection speed up to 120kmh / 75mph.

Plate background color supported for white color black font, yellow color black font, green, black and red plate background.

Circular recording, schedule recording, NAS recording, individual HDD recording configurable, and individual camera recording configurable provide the flexibilities in managing recording storages. NAV Software is designated for hybrid solution for IP camera, video server, IP Fast Dome. It provides total solutions for digital surveillance. Major features are:

3.0 General Specifications

NAV shall provide H.264/MJPEG decoding from IP camera.

NAV shall support upload: up to 500Mbps/ download: up to 500Mbps for network throughput.

NAV shall support (Video Input)/Network video support/IP video supports ONVIF Profile S, LILIN IP camera.

NAV shall support 3 x 3.5" SATA HDDs.

NAV shall provide 7 days x 24 hrs. time table, recording mode configurable for recording schedule.

NAV shall provide alarm, motion, schedule, and manual recording mode.

NAV shall provide max 1080p@120fps, and ROI recording supported.

NAV shall support recording resolution of 1920 x 1080、1280 x 1024、1280 x 768、(720 x 480 / 720 x 576)、320 x 240.

NAV shall support audio recording.

NAV shall support circular recording and size customizable.

NAV shall support limited recording and days customizable.

NAV shall support video archiving.

NAV shall support low bitrate recording mode.

NAV shall support Remote Network RAID.

NAV shall support NAS.

NAV shall support playback search for name, time, event, POS smartsearch, motion smartsearch, plate search (optional), record tagging.

NAV shall support playback resolution for 1920 × 1080、1280 × 1024、1280 × 768、(720 × 480 / 720 × 576)、320 × 240.

NAV shall support playback speed for FR: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X 32X FF: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X.

NAV shall support back up for max. 4 channels, AVI file format supported.

NAV shall support video input for max. 4 channels.

NAV shall support camera name for 20 characters.

NAV shall provide run-time cameras' arrangement by using a mouse drag-n-drop.

NAV shall provide digital zoom feature for live monitoring and video playback.

NAV shall support user grouping authentication assignable for eMap, and Navigator 2.0

NAV shall support remote monitoring.

NAV shall support HDMI output of 1 × HDMI Port, (4096 × 2160@60Hz).

NAV shall support video output of 1 × DisplayPort, (4096 × 2304@60Hz).

NAV shall support dual stream technology of multi-channel displays D1 and full screen displays 1080P resolution.

NAV shall support dual-screen, max. 4 channels.

NAV shall support split screen of 4.

NAV shall support video archiving & sync. Of Individual camera configurable, scheduling and instant archiving.

NAV shall support alarm recording of Face detection, audio detection, tamper, motion, IVS, DI alarm detection, and AI ANPR.

NAV shall support alarm management of Alarm popup for full screen, pc sound, redirect IP camera's digital output, email snapshots, redirect a PTZ preset recall.

NAV shall support alarm recording (alarm / event) of Pre-alarm:1 – 10 seconds and post-alarm: 1 sec – 59 minutes.

NAV shall support various alarm log including video loss, stop recording, schedule, logon, operation log.

NAV shall support digital output and controllable via IP cameras.

NAV shall support PIH-931D keyboard controllable via rs-485 for PTZ, ePTZ, and ROI features.

NAV shall support audio function of PCM, two-way audio, audio recording.

NAV shall support POS and barcode scanner function via TCP-IP / USB interface.

NAV shall support protocols of ARP / TCP / IP / HTTP / SMTP / DNS / PPPoE / ONVIF.

NAV shall support LILIN viewer, iPhone and Android.

NAV shall provide VMS of support NAV client VMS software.

NAV shall provide eMap of supported.

NAV shall support IP scan, easy-to-setup for IP address.

NAV shall provide CPU of Intel® Core™ I7-8700.

NAV shall provide chipset of Intel® H370 Chipset

NAV shall provide display card of Intel® HD Graphics 630.

NAV shall provide RAM of 2 × DDR4 8GB.

NAV shall provide 5 × Audio jack(s), 1 × S/PDIF.

NAV shall provide USB port of rear panel of 3 × USB 3.1 Gen 1, 1 × USB 3.1 Gen 1 (blue) USB Type-C™, 2 × USB 3.1 Gen 2.

NAV shall provide USB port of front panel of 1 × USB 2.0.

NAV shall provide 1 × 60mm rear exhaust fans.

NAV shall provide SSD HDD of 1 × SATA 256GB SSD (OS System), 1 × SATA 1TB HDD (recording). Note: Do not use WD Purple HDDs for NAV HDD installation. Please use 7200RPM WD Red Pro for non-RAID installation, WD Gold Enterprise HDDs for RAID installation, or other Enterprise HDDs.

NAV shall provide CE Certification.

NAV shall provide FCC Certification.

NAV is capable of supporting failover for monitoring other cameras' connectivity and performing failover recording

for the cameras if necessary.

NAV shall provide daylight saving time by Windows OS.

NAV shall support English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified Chinese, Czech, Slovenian, Hungarian, Turkish, Arabic, Persian, Bengali, Vietnamese.

NAV shall provide Windows 10 enterprise SAC.

NAV shall have power consumption of 500W power supply.

NAV shall provide power supply of 110V~240V.

NAV shall work within operating temperature of 0°C - 60°C (32°F - 140°F).

NAV shall provide storage temperature of -20°C - 80°C (32°F - 176°F).

NAV shall provide operating humidity of 0% - 95% (non-condensing).

NAV shall not exceed dimensions of 88 (H) × 438 (W) × 451 (D) mm.

NAV shall not exceed weight of 21.00 lbs (9.52kg).

4.0 Installation

All equipment shall be tested and configured based on the manufacturer guide line prior to installation.

All the products shall be updated for the latest firmware.

All the products shall be changed for the default username and password prior to installation.

5.0 Environmental Green Policy

The specified camera shall be manufactured in accordance with ISO 14001.

The specified camera shall be compliant with the EU directives RoHS and WEEE.

The specified camera shall be compliant with the EU regulation REACH.

END OF SECTION