



# **NAV-5M-16SL**



**1080P** DISPLAY **5MP** Lite RECORD **5MP** Lite PLAYBACK

# NAV-5M-16SL

### 5MP Lite Hybrid DVR





DDNS

Network



Audio

PTZ



MIC



USB

CMS



Mouse

E-mail

#### **Specification**

Mobile

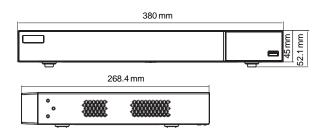
#### Introduction

NAV-5M-16SL series are 16 CH 5MP Lite high definition DVRs with ability to connect analog and IP cameras simultaneously, which adopt the standard H.265 high profile compression format and the most advanced SOC technique to ensure real time recording in each channel and realize outstanding robustness of the system. NAV-5M-16SL support 16 CH video input, 16 CH audio input, simultaneous 16 CH playback. The series of product can meet different security requirements of home, financial, commerce, enterprise, transportation and government, etc.

#### **Characteristics**

- 16 CH TVI / AHD video input, support 5MP / 4MP / 3MP / 1080P / 720P / WD1
- 16 CH CVI video input, support 4MP / 3MP / 1080P / 720P / WD1
- Default support 8 CH IPC 5MP / 4MP / 3MP / 1080P / 960P / 720P
- Adopt standard H.265 high profile compression format to get high-quality video at much lower bit rate
- Intuitive and user-friendly Graphics User Interface (GUI), window style
   operation by mouse
- Multi-mode recording: manual / timer /motion
- Playback : 16 CH simultaneously playback
- $\bullet$   $\;$  Search: time slice, time, event ( manual, motion ), tag search
- $\bullet$  Express and flexible backup via USB, network and so on
- Pentaplex: preview, record, playback, backup and remote access
- DHCP, DDNS, PPPoE network protocol, IE browse and CMS supported
- Remote control via IE or CMS : preview, playback, backup, PTZ and configuration
- Dual stream technology for local storage with high definition, remote network transmission and remote surveillance with mobile device
- Multi-user online simultaneously
- Authorization management, log review and device status review
- 1080P output, true high resolution display
- Support PTZ preset and auto cruise, up to 255 presets and 8 cruises
- Support NAT function and QRCode scanning by mobile phone and PAD
- Powerful smart phone & Pad surveillance with iOS and Andriod OS

## **Dimensions**



IveNAV-SM-16SLAmpressionSchadard A265 High ProfileSystemCPUSchadard L265 High ProfileCPUSchadard Lass High ProfileAmpressionSchadard LinuxAmpressionSchadard LinuxAmpression <th colspan="4"></th>				
SystemCPUCortex A9OSEmbedded LinuxInputBNC × 16ResolutionTVI /AHD: SMP / 4MP / 3MP/1080P / 720P / WD1IP Input8 CH (Up to 16CH)IP Input8 CH (Up to 16CH)OutputHDMI × 1: 1920 × 1080 / 1280 × 1024 / 1024 × 768 BNC × 1: CVBS (used as the main or spot output)AudioOutputRCA × 1Two-way audioTake up channel one audio inputFrame RateSMP Lite/1080P / 1280 × 1024 / 1024 × 768 BNC × 1: CVBS (used as the main or spot output)AudioOutputRCA × 8AudioOutputRCA × 1Two-way audioTake up channel one audio inputFrame RateSMP Lite/1080P/1080P / 1050P / 1050P / 1050PBit Rate32Kbps - SMbpsModeManual, timer, motionFrame Rate25fps (PAL) / 30fps (NTSC)Bit Rate25fps (PAL) / 30fps (NTSC)Playback16 CHSmart SearchPied of time / event / tagsearchFunctionPlay, pause, FF, FB, digital zoom, etc.ModeManual, motion, exceptionAlarmOutput4 CHTriggeringRecord, snap, preset, e-mail, etc.InserveringCold CDC / IP, PPPoE, DHCP, DNS, DDNS, UPNP, NTP, SMTPBandwidth72 / 96 Mbps (access/transfer)MobieicOSiOS, AndriodStorageHDDSATA × 2, up to 8TB per HDD; E-SATA × 1NetworkRecord, snap, preset, e-mail, etc.InterfaceRS485 × 1, connect to PTZ orkeyboardWetworkNes	Model		NAV-5M-16SL	
OSEmbedded LinuxInputINputBNC × 16ResolutionCVI : AHD : 5MP / 4MP / 3MP/1080P / 720P / WD1 CVI : 4MP / 3MP/1080P / 720P / WD1IP Input8 CH (Up to 16CH)DutputP200 × 1080 / 1280 × 1024 / 1024 × 768 VGA × 1: 12920 × 1080 / 1280 × 1024 / 1024 × 768 BNC × 1: CVBS (used as the main or spot output )AudioInputRCA × 8AudioOutputRCA × 1Two-way audioTake up channel one audio inputFrame RateSMP Lite/I080P/1280P / 128/ NTSC), 1080P Lite/720P/WD1Bit Rate32Kbps - 5MbpsModeManual, timer, motionIP InputResolutionParame Rate25(ps (PAL) / 30(ps (NTSC), 1080P Lite/720P/WD1@25(ps (PAL) / 30(ps (NTSC))Bit Rate32Kbps - 5MbpsModeManual, timer, motionIP InputSearchFrame Rate25(ps (PAL) / 30(ps (NTSC))Playback16 CHSearchTime slice / time / event / tagsearchPierotonPlay, pause, FF, FB, digital zoom, etc.FunctionPlay, pause, FF, FB, digital zoom, etc.AlarmOutput4 CHTriggeringRecord, snap, preset, e-mail, etc.NetworkOSiOS, AndriodStorageHDDSATA ×2, up to 8TB per HDD; E-SATA ×1ModeNataria, motion, exceptionModeUsisk, USB removable HDDBackupYesResolutionSCAS × 1, connect to PTZ orkeyboardWorkJUSB 2.0 ×2ModeNataria, connect to PTZ orkeyboard </td <td rowspan="3">System</td> <td>Compression</td> <td>Standard H.265 High Profile</td>	System	Compression	Standard H.265 High Profile	
Input         BNC × 16           Resolution         TVI /AHD: SMP / 4MP / 3MP/1080P / 720P / WD1           Video         IP Input         8 CH (Up to 16CH)           IP Input         8 CH (Up to 16CH)           Quiput         Note (March 1000) / 1280 × 1024 / 1024 × 768 BNC × 1: CVBS (used as the main or spot output)           Audio         Input         RCA × 8           Audio         Output         RCA × 1           Two-way audio         Take up channel one audio input           Frame Rate         SMP Lite/1080P / 120s (PAL) / 15fps (NTSC), 1080P Lite/720P/WD1@25fps (PAL) / 15fps (NTSC), 1080P Lite/720P/WD1@25fps (PAL) / 30fps (NTSC)           Bit Rate         32Kbps ~ 5Mbps           Manual, timer, motion         Resolution           Resolution         SMP / 4MP / 3MP / 1080P / 960P / 720P           Frame Rate         25fps (PAL) / 30fps (NTSC)           Playback         16 CH           Smart Search         Highlight colors to display the camera record in a certain period of time, different colors refer to different record events           Function         Play, pause, FF, FB, digital zoom, etc.           Mode         Manual, motion, exception           Input         16 CH           Output         4 CH           Triggering         Record, snap, preset, e-mail, etc.           <		CPU	Cortex A9	
Video         Resolution         TVI /AHD: 5MP / 4MP / 3MP/1080P / 720P / WD1           Video         IP Input         8 CH (Up to 16CH)           IP Input         8 CH (Up to 16CH)           Jupit         Note (Comparing)           Output         Video / 1280 × 1024 / 1024 × 768           Output         RCA × 8           Audio         Output         RCA × 8           Output         RCA × 1           Two-way audio         Take up channel one audio input           Frame Rate         SMP / 1080 / 1280 × 1024 / 1024 × 768           Frame Rate         SMP Lite/1080P/1080P Lite/720P/WD1           Frame Rate         SMP / 4MP / 3MP / 1080P / 1050P / 1050P / 1050           Bit Rate         32Kbps - SMbps           Mode         Manual, timer, motion           IP Input         Resolution         SMP / 4MP / 3MP / 1080P / 960P / 720P           Play         Frame Rate         25/ps (PAL) / 30/ps (NTSC)           JBIR Rate         32Kbps - SMbps           Mode         Manual, timer, motion           Playback         16 CH           Search         Time slice / time / event / tagsearch           Playphack         16 CH           Output         4 CH           Triggering         Record, snap, pre		OS	Embedded Linux	
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Video         HDMI × 1: 1920 × 1080 / 1280 × 1024 / 1024 × 768 VGA × 1: 1920 × 1080 / 1280 × 1024 / 1024 × 768 BNC × 1: CVBS (used as the main or spot output)           Audio         Input         RCA × 8 Output         RCA × 8           Audio         Output         RCA × 1         RCA × 8           Record         Fame Rate         SMP Lite/4MP Lite/1080P/1080P Lite/720P/WD1           SMP Lite/100 DF 012ps(PAL) / 15fps (NTSC), 1080 P Lite/720P/WD1@25fps (PAL) / 30fps (NTSC)           Bit Rate         32Kbps - 5Mbps           Mode         Manual, timer, motion           IP Input         Resolution         5MP / 4MP / 3MP / 1080P / 960P / 720P           Frame Rate         25fps (PAL) / 30fps (NTSC)           Bit Rate         32Kbps - 5Mbps           Mode         Manual, timer, motion           Resolution         5MP / 4MP / 3MP / 1080P / 960P / 720P           Frame Rate         25fps (PAL) / 30fps (NTSC)           Play         Search         Time slice / time / event / tagsearch           Play         Search         Highlight colors to display the camera record ina certain period of time, different colors refer to different record events           Play         Mode         Manual, motion, exception           Input         16 CH           Output         4 CH           Triggering         Record,		Resolution		
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InputRCA × 8AudioOutputRCA × 1Two-way audioTake up channel one audio inputRecordEsolutionSMP Lite/4MP Lite/1080P/1080P Lite/720P/WD1Frame RateSMP Lite@10fps, 4MP Lite/1080P@12fps(PAL) / 15fps (NTSC), 1080P Lite/720P/WD1@25fps (PAL) / 30fps (NTSC)Bit Rate32Kbps - 5MbpsModeManual, timer, motionIP InputResolutionSMP / 4MP / 3MP / 1080P / 960P / 720PFrame Rate25fps (PAL) / 30fps (NTSC)Playback16 CHSearchTime slice / time / event / tagsearchPlayback16 CHSmart SearchHighlight colors to display the camera record ina certain period of time, different colors refer to different record 		Output	1920 × 1080 / 1280 × 1024 / 1024 × 768 VGA × 1 : 1920 × 1080 / 1280 × 1024 / 1024 × 768	
AudioOutputRCA × 1Two-way audioTake up channel one audio inputRecolutionSMP Lite/14MP Lite/1080P/1080P Lite/720P/WD1Frame RateSMP Lite/1080P @ 12ps(PAL) / 15ps (NTSC), 1080P Lite/720P/WD1@25fps (PAL) / 30fps (NTSC)Bit Rate32Kbps - 5MbpsModeManual, timer, motionIP InputResolutionFrame Rate25fps (PAL) / 30fps (NTSC)Playback16 CHSearchTime slice / time / event / tagsearchPlayback16 CHSmart SearchHighlight colors to display the camera record ina certain period of time, different colors refer to different record eventsPlayNedeManual, motion, exceptionInput16 CHOutput4 CHTriggeringRecord, snap, preset, e-mail, etc.InterfaceRJ45 1000Mbps ×1NetworkProtocolTCP / IP, PPPoE, DHCP, DNS, DDNS, UPNP, NTP, SMTPBandwidth72 / 96 Mbps (access/transfer)Mobile DevicesOSiOS, AndriodStorageHDDSATA × 2, up to 8TB per HDD; E-SATA × 1Accal Rachup BackupU disk, USB removable HDDBackupU disk, USB removable HDDBackupVesResolerOptionalOtherSub 2.0 × 2OtherRemoteOtherSub 2.0 × 2OtherSub 2.68 × 52mm (W × D × H)Work10.0 × 610 × 100% p × 00% humidity	Audio	Input		
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RecordSMP Lite@10fps, 4MP Lite/1080P@12fps(PAL) / 15fps (NTSC), 1080P Lite/720P/WD1@25fps (PAL) / 30fps (NTSC)Bit Rate32Kbps - 5MbpsModeManual, timer, motionIP InputResolution5MP / 4MP / 3MP / 1080P / 960P / 720PIP InputFrame Rate25fps (PAL) / 30fps (NTSC)Play backSearchTime slice / time / event / tagsearchPlay back16 CHSmart SearchPidplight colors to display the camera record in a certain period of time, different colors refer to different record eventsPlay backModeManual, motion, exceptionFunctionPlay, pause, FF, FB, digital zoom, etc.FunctionPlay, pause, FF, FB, digital zoom, etc.FunctionPlay, pause, SF, FB, digital zoom, etc.FunctionPlay, pause, SF, FB, digital zoom, etc.FunctionPlay, pause, FF, FB, digital zoom, etc.FunctionPlay, pause, FF, FB, digital zoom, etc.Pottput16 CHOutput4 CHTriggeringRecord, snap, preset, e-mail, etc.InterfaceRJ45 1000Mbps ×1NetworkProtocolTCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTPBandwidth72 / 96 Mbps (access/transfer)MobileOSIOSiOS, AndriodStorageHDDSATA × 2, up to 8TB per HDD; E-SATA × 1Local BackupYesRemote BackupVesRemote ControllerOptionalOtherQuery VAAConsumption\$15W (without HDD)	Record			
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IP InputResolution5MP / 4MP / 3MP / 1080P / 960P / 720PIP InputFrame Rate25fps (PAL) / 30fps (NTSC)Playback16 CHSearchTime slice / time / event / tagsearchPlaybackSearchFunctionPlay, pause, FF, FB, digital zoom, etc.ModeManual, motion, exceptionInput16 CHOutput4 CHTriggeringRecord, snap, preset, e-mail, etc.InterfaceRJ45 1000Mbps ×1NetworkProtocolBandwidth72 / 96 Mbps (access/transfer)MobileOSIoS, AndriodStorageHDDSATA × 2, up to 8TB per HDD; E-SATA × 1Local BackupU disk, USB removable HDDBackupNetwork BackupPortUSBUSBUSB 2.0 × 2Remote ControllerOptionalPower SupplyDC12V / 4AConsumption<15W (without HDD)		Bit Rate	32Kbps ~5Mbps	
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$\begin{tabular}{ c c c c c } \label{eq:harder} \end{tabular} tabu$		Smart Search	period of time, different colors refer to different record	
AlarmInput16 CH $Alarm$ Output4 CHTriggeringRecord, snap, preset, e-mail, etc. $Network$ InterfaceRJ45 1000Mbps ×1NetworkProtocolTCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTPBandwidth72 / 96 Mbps (access/transfer)Mobile DeviceOSiOS, AndriodStorageHDDSATA × 2, up to 8TB per HDD; E-SATA × 1BackupLocal BackupU disk, USB removable HDDBackupNetwork BackupYesPortUSBUSB 2.0 × 2Remote ControllerOptionalOthersFower SupplyDC12V / 4AOthers380 × 268 × 52mm (W × D × H)Work $x10 = 50\%$ + 10% = 90% humidity		Function	Play, pause, FF, FB, digital zoom, etc.	
AlarmOutput4 CHTriggeringRecord, snap, preset, e-mail, etc.NetworkInterfaceRJ45 1000Mbps × 1NetworkProtocolTCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTPBandwidth72 / 96 Mbps (access/transfer)Mobile DeviceOSiOS, AndriodStorageHDDSATA × 2, up to 8TB per HDD; E-SATA × 1BackupU disk, USB removable HDDBackupYesRS485RS485 × 1, connect to PTZ orkeyboardUSBUSB 2.0 × 2Remote ControllerOptionalOthersRemote Sato × 268 × 52mm (W × D × H)Work×10 ≈ 50 °C × 10% ≈ 90% burnidity		Mode	Manual, motion, exception	
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InterfaceRJ45 1000Mbps × 1NetworkProtocolTCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTPBandwidth72 / 96 Mbps (access/transfer)Mobile DeviceOSiOS, AndriodStorageHDDSATA × 2, up to 8TB per HDD; E-SATA × 1BackupLocal BackupU disk, USB removable HDDBackupNetwork BackupYesPortUSBUSB 2.0 × 2Remote ControllerOptionalOthersPower SupplyDC12V / 4ADimensions380 × 268 × 52mm (W × D × H)Work $x10 = 50\%$ $x10\%$ $x20\%$ humidity		Output	4 CH	
Network         Protocol         TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP           Bandwidth         72 / 96 Mbps (access/transfer)           Mobile Device         OS         iOS, Andriod           Storage         HDD         SATA × 2, up to 8TB per HDD; E-SATA × 1           Backup         U disk, USB removable HDD           Backup         Yes           RS485         RS485 × 1, connect to PTZ orkeyboard           USB         USB 2.0 × 2           Remote Controller         Optional           Power Supply         DC12V / 4A           Consumption         ≤ 15W (without HDD)           Dimensions         380 × 268 × 52mm(W × D × H)           Work         ×10 ≈ 50 °C × 10% ≈ 90% humidity		Triggering	Record, snap, preset, e-mail, etc.	
Bandwidth         72 / 96 Mbps (access/transfer)           Mobile Device         OS         iOS, Andriod           Storage         HDD         SATA × 2, up to 8TB per HDD; E-SATA × 1           Backup         Local Backup         U disk, USB removable HDD           Backup         Network Backup         Yes           Port         RS485         RS485 × 1, connect to PTZ orkeyboard           USB         USB 2.0 × 2           Remote Controller         Optional           Others         Power Supply         DC12V / 4A           Consumption         ≤ 15W (without HDD)           Dimensions         380 × 268 × 52mm (W × D × H)           Work         ×10 ≈ 50 % × 10% ≈ 90% humidity		Interface	RJ45 1000Mbps ×1	
Bandwidth         72 / 96 Mbps (access/transfer)           Mobile Device         OS         iOS, Andriod           Storage         HDD         SATA × 2, up to 8TB per HDD; E-SATA × 1           Backup         Local Backup         U disk, USB removable HDD           Backup         Network Backup         Yes           Port         RS485         RS485 × 1, connect to PTZ orkeyboard           USB         USB 2.0 × 2           Remote Controller         Optional           Others         Power Supply         DC12V / 4A           Consumption         ≤ 15W (without HDD)           Dimensions         380 × 268 × 52mm (W × D × H)           Work         ×10 ≈ 50 % × 10% ≈ 90% humidity				
Mobile Device     OS     iOS, Andriod       Storage     HDD     SATA × 2, up to 8TB per HDD; E-SATA × 1       Backup     Local Backup     U disk, USB removable HDD       Backup     Network Backup     Yes       Port     RS485     RS485 × 1, connect to PTZ orkeyboard       USB     USB 2.0 × 2       Remote Controller     Optional       Power Supply     DC12V / 4A       Consumption     ≤ 15W (without HDD)       Dimensions     380 × 268 × 52mm (W × D × H)       Work     ×10 ≈ 50 % × 10% ≈ 90% humidity		Bandwidth		
Storage     HDD     SATA × 2, up to 8TB per HDD; E-SATA × 1       Backup     Local Backup     U disk, USB removable HDD       Backup     Network Backup     Yes       Port     RS485     RS485 × 1, connect to PTZ orkeyboard       USB     USB 2.0 × 2       Remote Controller     Optional       Power Supply     DC12V / 4A       Consumption     ≤ 15W (without HDD)       Dimensions     380 × 268 × 52mm (W × D × H)       Work     ×10 ≈ 50 % × 10% ≈ 90% humidity				
Backup     Local Backup     U disk, USB removable HDD       Backup     Network Backup     Yes       Port     RS485     RS485 × 1, connect to PTZ orkeyboard       USB     USB 2.0 × 2       Remote Controller     Optional       Power Supply     DC12V / 4A       Consumption     ≤ 15W (without HDD)       Dimensions     380 × 268 × 52mm(W × D × H)       Work     ×10 ≈ 50 % × 10% ≈ 90% humidity		HDD	SATA × 2, up to 8TB per HDD; E-SATA × 1	
Backup     Network Backup     Yes       Port     RS485     RS485 × 1, connect to PTZ orkeyboard       USB     USB 2.0 × 2       Remote Controller     Optional       Power Supply     DC12V / 4A       Consumption     ≤ 15W (without HDD)       Dimensions     380 × 268 × 52mm(W × D × H)       Work     ×10 ≈ 50 % × 10% ≈ 90% humidity				
RS485RS485 × 1, connect to PTZ orkeyboardPortUSBUSB 2.0 × 2Remote ControllerOptionalPower SupplyDC12V / 4AConsumption $\leq 15W$ (without HDD)Dimensions380 × 268 × 52mm (W × D × H)Work $\sim 10\%$ co 50\% co 10% co 90% humidity		Network		
Port     USB     USB 2.0 × 2       Remote Controller     Optional       Power Supply     DC12V / 4A       Consumption     ≤ 15W ( without HDD )       Dimensions     380 × 268 × 52mm( W × D × H )       Work     -10 ≈ 50 % + 10% ≈ 90% humidity	Port		RS485 × 1, connect to PTZ orkeyboard	
Remote Controller     Optional       Power Supply     DC12V / 4A       Consumption $\leq$ 15W (without HDD)       Dimensions     380 × 268 × 52mm(W × D × H)       Work $<10 \approx 50\%$ $> 10\%$ $\approx 90\%$ humidity		USB		
Others $ \frac{1}{2} 1$				
Others         Dimensions         380 × 268 × 52mm( W × D × H )           Work         -10 ~ 50 °C + 10% ~ 90% humidity	Others	Power Supply	DC12V / 4A	
Dimensions $380 \times 268 \times 52 \text{mm}(W \times D \times H)$ Work $-10 \approx 50^{\circ} \text{C} \times 10^{\circ} \text{c} \approx 90^{\circ} \text{ humidity}$		Consumption	≤ 15W ( without HDD )	
		Dimensions	380 × 268 × 52mm( W × D × H)	
			-10 $\sim$ 50 $^\circ\!$	

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