

# PROVISION ISR ISR SH-8100A5N-2L(MM)-V2 4 In 1 Dynamic Hybrid Digital Video Recorder Owner's Manual

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PROVISION ISR ISR SH-8100A5N-2L(MM)-V2 4 In 1 Dynamic Hybrid Digital Video Recorder



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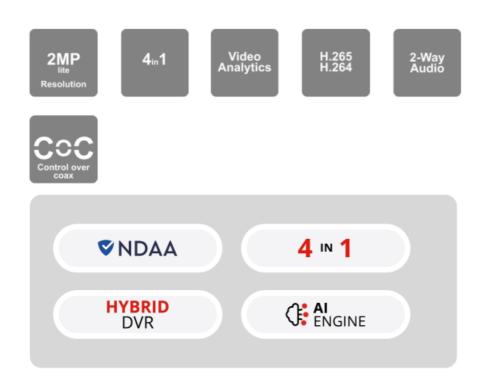
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## **Important Information**

Provision-ISR DVRs feature the advanced H.264-H265 video compression format for maximum video quality alongside minimum storage volume. Their Dynamic Hybrid function allows installers to decide how the analog channels will work according to the installation needs, making this installation totally dynamic.

Provision-ISR SH-8100A5N-2L(MM)-V2 is a high-quality dynamic hybrid digital video recorder obtainable in an elegant mini metal case. This technology allows users to add advanced IP cameras alongside analog ones and enjoy high-quality images and other advanced features available on IP cameras only. The recorder supports Provision-ISR Standard Video Analitycs (Pixel Based).

### **Features**



#### **MAIN FEATURES**

Video Input: 8CH Standard BNC + 2CH IP Video Output: HDMI – FHD VGARecording: HD Analog: 2MP lite / 1MP: Up to 12/15FPS

Per ChannelCVBS: 960H: Up to 25/30FPS Per ChannelIP: 5MP: 25FPS Per Channel, 4MP and lower: 25/30FPS

Per

**ChannelPlayback**:Local: 8Ch SimultaneouslyRemote: 4Ch SimultaneouslyAudio: Input: 1CH + IPC InputsOutput: 1CH + IPC

OutputsAlarm :Input: IP Cameras onlyOutput: IP Cameras

onlyStorage: 1 x SATA (Up to 6TB each)Network:1 x RJ-45: 10/100MbpsPTZ Support: CoC / IP over

NetworkPower

**Supply**:DC12V/2AAnalytics:AI by IPC: DDA1 Analytics Supported by the cameraAI By DVR:AI Object detection, Line Crossing/Sterile Area (Up to 1 channel, at the expense of 4 SMD channels)Remarks:The following features are based on firmware v1.3.8 and are subject to firmware version changes.

#### **SPECIFICATIONS**

NDAA Compliant		
NDAA Compliant	Yes	
General		
Technology	Hybrid DVR	
Recording Modes	Schedule, Manual, Motion, Sensor, Analytics, POS	
Format	"All in 1" Hybrid (AHD / CVI / TVI / CVBS + IP)	

Video Input		
Video Input (Max Analog)	8CH Standard BNC + 2CH IP (Over Network)	
Video Input (Max IP)	10CH IP (Over Network) + 0CH Standard BNC	
3K Input Support	No	
Video Output		
Video Output	HDMI(1920×1080), VGA (1280×1024, 1024×768)	
Dual Output	Mirrored	
Audio		
Audio-In	1CH RCA (2.0 Vp-p, 1 kΩ) (+IP Cameras)	
Audio-Out	1CH RCA (2.0 Vp-p, 1 kΩ) (+IP Cameras)	
Audio Over Coax	Yes (TVI Only)	
Two Way Audio	Yes	
Audio Compression	G.711u	
Events and Analytics		
SMD Support	Yes	
DDA Analytics (On Analog Channels)	Yes	
Pixel Based Analytics	Yes	
Main Resolution and FPS		
IP Main Stream	5MP: 25FPS Per Channel, 4MP and lower: 25/30FPS Per Channel	
AHD	AHD 2MP lite / 1MP: Up to 12/15FPS Per Channel	
TVI	2MP lite / 1MP: Up to 12/15FPS Per Channel	
CVI	2MP lite / 1MP: Up to 12/15FPS Per Channel	
CVBS Main Stream	CVBS: 960H: Up to 25/30FPS Per Channel	
Master Stream Over Network	4Ch	
Network (Sub stream) Resolution and FPS		
HD Analog	1-25/30FPS@D1 Per Channel (FPS Restricted to Master Stream FPS)	
IP Sub Stream	1-25/30FPS@D1 Per Channel	
CVBS Sub Stream	1-25/30FPS@D1 Per Channel	
Sub streams over Network	50 (Outgoing band with limit applies)	
Remote view		
Max Channel View	50Ch (Limited to Outgoing Bandwidth Capacity)	
Video Compression		

Recording Mode Main Stream only  Remote Applications  User Access 5 Users Online with Professional Authority Management Mobile App Provision Cam2 for iOS/Android  PC/Mac Software Ossia VMS Standard / Enterprise Chrome, Fire Fox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback) Plug-in based Web-Browser Internet Exporer  Bandwidth Incoming 16Mbps Outgoing 60Mbps  Playback Local Playback Channels 8Ch Remote Playback Channels 4Ch Search Modes Time-Silce, Time, Event, File Management, Smart Search  Backup  USB 2 USB 2.0 Port  Backup Format AV/DAT  Alarm  Alarm-out IP Cameras only Alarm-out Ves  Storage  HDD Max Capacity 6TB Number of HDD 1 E-Sata No  PTZ  Connection Coc / IP over Network Supported Protocols Pelco D, Pelco P, Samsung, Visca, ONVIF, Coc	Video Compression	H.265 (HEVC) / H.264	
Remote Applications  User Access  5 Users Online with Professional Authority Management  Mobile App  Provision Cam2 for iOS/Android  Ossia VMS Standard / Enterprise  Chrome, Fire Fox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback)  Plug-in based Web-Browser  Internet Exporer  Bandwidth  Incoming  16Mbps  Outgoing  60Mbps  Playback  Local Playback Channels  8Ch  Remote Playback Channels  4Ch  Search Modes  Time-Silce, Time, Event, File Management, Smart Search  Backup  USB  2 USB 2.0 Port  Backup Format  AVI/DAT  Alarm  Alarm-out  Alarm-out  Alarm-out  Alarm-out  Alarm Box Support  Yes  Storage  HDD Max Capacity  6TB  Number of HDD  1  E-Sata  No  PTZ  Connection  Coc / IP over Network  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Record		
S Users Online with Professional Authority Management Mobile App Provision Cam2 for iOS/Android Ossia VMS Standard / Enterprise Chrome, Fire Fox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback) Plug-in free Web-Browser Internet Exporer  Bandwidth Incoming 16Mbps Outgoing 60Mbps Playback Local Playback Channels 8Ch Remote Playback Channels 8earch Modes Time-Slice, Time, Event, File Management, Smart Search Backup USB 2 USB 2.0 Port Backup Format Alarm Alarm-in IP Cameras only Alarm-out IP Cameras only Alarm-out Alarm Box Support Yes Storage HDD Max Capacity 6TB Total HDD Max Capacity 6TB Total HDD Max Capacity 6TB Connection CoC / IP over Network Supported Protocols Supported Controls Peico D, Pelco P, Samsung, Visca, ONVIF, CoC Supported Controls Supported Controls Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Recording Mode	Main Stream only	
Mobile App Provision Cam2 for iOS/Android PC/Mac Software Ossia VMS Standard / Enterprise Plug-in free Web-Browser Chrome, Fire Fox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback) Plug-in based Web-Browser Internet Exporer  Bandwidth Incoming 16Mbps Outgoing 50Mbps Playback Local Playback Channels 8Ch Remote Playback Channels 4Ch Search Modes Time-Slice, Time, Event, File Management, Smart Search Backup USB 2 USB 2.0 Port Backup USB 2 USB 2.0 Port Backup Format AV//DAT Alarm Alarm Alarm-in IP Cameras only Playmach Yes Storage HDD Max Capacity 6TB Total HDD Max Capacity 6TB Number of HDD 1 E-Sata No PTZ Connection CoC / IP over Network Supported Cntrols Park, Fice, San, Iris, Focus			
PC/Mac Software Ossia VMS Standard / Enterprise Chrome, Fire Fox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback) Plug-in free Web-Browser Internet Exporer  Bandwidth Incoming 16Mbps Outgoing 60Mbps Playback Local Playback Channels 8Ch Remote Playback Channels 4Ch Search Modes Time-Slice, Time, Event, File Management, Smart Search Backup USB 2 USB 2.0 Port Backup USB 2 USB 2.0 Port Alarm- Alarm- IP Cameras only IP Cameras only Alarm-out IP Cameras only IP Cameras only Storage HDD Max Capacity 6TB Total HDD Max Capacity 6TB Number of HDD 1 E-Sata No PTZ Connection CoC / IP over Network Supported Protocols Peico D, Peico P, Samsung, Visca, ONVIF, CoC Supported Controls Page Internet Exporer Interne	User Access	5 Users Online with Professional Authority Management	
Plug-in free Web-Browser  Chrome, Fire Fox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback)  Plug-in based Web-Browser  Internet Exporer  Bandwidth  Incoming  16Mbps  Outgoing 60Mbps  Playback  Local Playback Channels 8Ch Remote Playback Channels Search Modes  Time-Slice, Time, Event, File Management, Smart Search  Backup  USB 2 USB 2.0 Port Alarm  Alarm-in IP Cameras only Alarm-out IP Cameras only Alarm-out IP Cameras only Alarm Box Support Yes  Storage  HDD Max Capacity 6TB Total HDD Max Capacity 6TB Number of HDD 1 E-Sata No  PTZ  Connection CoC / IP over Network Supported Protocols Supported Controls Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Mobile App	Provision Cam2 for iOS/Android	
Live View / Playback) Plug-in based Web-Browser  Bandwidth  Incoming  16Mbps 60Mbps  Playback  Local Playback Channels  Remote Playback Channels  Search Modes  Time-Slice, Time, Event, File Management, Smart Search  Backup  USB  2 USB 2.0 Port  Backup Format  AVI/DAT  Alarm  Alarm-in  IP Cameras only  Alarm-out  Alarm-box Support  Yes  Storage  HDD Max Capacity  6TB  Total HDD Max Capacity  6TB  Number of HDD  1  E-Sata  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	PC/Mac Software	Ossia VMS Standard / Enterprise	
Bandwidth Incoming 16Mbps Outgoing 60Mbps Playback Local Playback Channels 8Ch Remote Playback Channels 4Ch Search Modes Time-Slice, Time, Event, File Management, Smart Search Backup USB 2 USB 2.0 Port Backup Format AVI/DAT Alarm Alarm-in IP Cameras only Alarm-out IP Cameras only Alarm Box Support Yes Storage HDD Max Capacity 6TB Total HDD Max Capacity 6TB Number of HDD 1 E-Sata No PTZ Connection CoC / IP over Network Supported Protocols Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Plug-in free Web-Browser		
Incoming 16Mbps Outgoing 60Mbps Playback Local Playback Channels 8Ch Remote Playback Channels 4Ch Search Modes Time-Slice, Time, Event, File Management, Smart Search Backup USB 2 USB 2.0 Port Backup Format AVI/DAT Alarm Alarm-in IP Cameras only Alarm-out IP Cameras only Alarm Box Support Yes Storage HDD Max Capacity 6TB Total HDD Max Capacity 6TB Number of HDD 1 E-Sata No PTZ Connection CoC / IP over Network Supported Protocols Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Plug-in based Web-Browser	Internet Exporer	
Outgoing 60Mbps  Playback Local Playback Channels 8Ch  Remote Playback Channels 4Ch  Search Modes Time-Slice, Time, Event, File Management, Smart Search  Backup  USB 2 USB 2.0 Port  Backup Format AVI/DAT  Alarm  Alarm-in IP Cameras only  Alarm-out IP Cameras only  Alarm Box Support Yes  Storage  HDD Max Capacity 6TB  Total HDD Max Capacity 6TB  Number of HDD 1  E-Sata No  PTZ  Connection CoC / IP over Network Supported Protocols Par, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Bandwidth		
Playback Local Playback Channels 8Ch Remote Playback Channels 4Ch Search Modes Time-Slice, Time, Event, File Management, Smart Search Backup  USB 2 USB 2.0 Port Backup Format AVI/DAT  Alarm  Alarm-in IP Cameras only Alarm-out IP Cameras only Alarm Box Support Yes  Storage  HDD Max Capacity 6TB  Total HDD Max Capacity 6TB  Number of HDD 1 E-Sata No  PTZ  Connection CoC / IP over Network Supported Protocols Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Incoming	16Mbps	
Remote Playback Channels  Remote Playback Channels  Search Modes  Time-Slice, Time, Event, File Management, Smart Search  Backup  USB  2 USB 2.0 Port  Backup Format  AVI/DAT  Alarm  Alarm  Alarm-out  Alarm-out  IP Cameras only  Yes  Storage  HDD Max Capacity  6TB  Total HDD Max Capacity  6TB  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Outgoing	60Mbps	
Remote Playback Channels  Search Modes  Time-Slice, Time, Event, File Management, Smart Search  Backup  USB  2 USB 2.0 Port  Backup Format  AVI/DAT  Alarm  Alarm-in  IP Cameras only  Alarm-out  IP Cameras only  Yes  Storage  HDD Max Capacity  6TB  Total HDD Max Capacity  6TB  Number of HDD  1  E-Sata  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Playback		
Search Modes  Time-Slice, Time, Event, File Management, Smart Search  Backup  USB  2 USB 2.0 Port  AVI/DAT  Alarm  Alarm  Alarm-out  Alarm-out  Alarm Box Support  Storage  HDD Max Capacity  Total HDD Max Capacity  6TB  Total HDD Max Capacity  1 E-Sata  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Local Playback Channels	8Ch	
Backup  USB 2 USB 2.0 Port  Backup Format AVI/DAT  Alarm  Alarm  Alarm-in IP Cameras only  Alarm-out IP Cameras only  Alarm Box Support Yes  Storage  HDD Max Capacity 6TB  Total HDD Max Capacity 6TB  Number of HDD 1  E-Sata No  PTZ  Connection CoC / IP over Network  Supported Protocols Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Remote Playback Channels	4Ch	
USB         2 USB 2.0 Port           Backup Format         AVI/DAT           Alarm         IP Cameras only           Alarm-out         IP Cameras only           Alarm Box Support         Yes           Storage         HDD Max Capacity         6TB           Total HDD Max Capacity         6TB           Number of HDD         1           E-Sata         No           PTZ           Connection         CoC / IP over Network           Supported Protocols         Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC           Supported Controls         Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Search Modes	Time-Slice, Time, Event, File Management, Smart Search	
Backup Format  Alarm  Alarm-in  IP Cameras only  Alarm-out  IP Cameras only  IP Cameras only  Alarm Box Support  Yes  Storage  HDD Max Capacity  Total HDD Max Capacity  6TB  Number of HDD  1  E-Sata  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Backup		
Alarm-in IP Cameras only Alarm-out IP Cameras only Alarm Box Support Yes  Storage  HDD Max Capacity 6TB  Total HDD Max Capacity 6TB  Number of HDD 1  E-Sata No  PTZ  Connection CoC / IP over Network  Supported Protocols Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	USB	2 USB 2.0 Port	
Alarm-in IP Cameras only  Alarm-out IP Cameras only  Alarm Box Support Yes  Storage  HDD Max Capacity 6TB  Total HDD Max Capacity 6TB  Number of HDD 1  E-Sata No  PTZ  Connection CoC / IP over Network  Supported Protocols Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Backup Format	AVI/DAT	
Alarm-out IP Cameras only  Yes  Storage  HDD Max Capacity 6TB  Total HDD Max Capacity 6TB  Number of HDD 1  E-Sata No  PTZ  Connection CoC / IP over Network  Supported Protocols Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Alarm		
Alarm Box Support  Yes  Storage  HDD Max Capacity  6TB  Total HDD Max Capacity  6TB  Number of HDD  1  E-Sata  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Alarm-in	IP Cameras only	
Storage  HDD Max Capacity  6TB  Total HDD Max Capacity  6TB  Number of HDD  1  E-Sata  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Alarm-out	IP Cameras only	
HDD Max Capacity  6TB  Total HDD Max Capacity  6TB  Number of HDD  1  E-Sata  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Alarm Box Support	Yes	
Total HDD Max Capacity  6TB  Number of HDD  1  E-Sata  No  PTZ  Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Storage		
Number of HDD 1  E-Sata No  PTZ  Connection CoC / IP over Network  Supported Protocols Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	HDD Max Capacity	6ТВ	
PTZ  Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Total HDD Max Capacity	6ТВ	
Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Number of HDD	1	
Connection  CoC / IP over Network  Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	E-Sata	No	
Supported Protocols  Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC  Supported Controls  Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	PTZ		
Supported Controls Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	Connection	CoC / IP over Network	
	Supported Protocols	Pelco D, Pelco P, Samsung, Visca, ONVIF, CoC	
Network	Supported Controls	Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus	

Ethernet	100 Mbps (RJ-45)	
Protocols	TCP/IP, DHCP, DDNS, NTP, SMTP, RTSP, HTTPS, FTP, S NMP, P2P, POS	
ONVIF	Yes (For IP Channels)	
Others		
Dimensions	W255xD220xH43mm	
Power Supply	DC12V/2A	
Operation Temperature	0°C ~50°C	

# **DIMENSIONS**



# https://provision-isr.com





## **Documents / Resources**



PROVISION ISR ISR SH-8100A5N-2L(MM)-V2 4 In 1 Dynamic Hybrid Digital Video Recorde r [pdf] Owner's Manual

ISR SH-8100A5N-2L MM -V2, ISR SH-8100A5N-2L MM -V2 4 In 1 Dynamic Hybrid Digital Video Recorder, 4 In 1 Dynamic Hybrid Digital Video Recorder, Dynamic Hybrid Digital Video Recorder, Digital Video Recorder, Recorder

## References

• User Manual

### Manuals+, Privacy Policy