DS-PA502-128
AX HYBRID PRO G2 Control Panel Unit



- 128 zones and 128 outputs
- 64 areas
- 1 installer, 1 admin, 128 operators
- Dual bus, up to 64 bus devices per bus
- Dual-path notification to ARC, support ARC redundancy
- Support LAN, Wi-Fi, support optional PSTN/GPRS/4G Communicator
- Support 16-ch onboard IPC video verification cache
- Support ISUP, OTAP protocols
- EN50131 Grade 2

▪ Specification

Inputs(Zones)	
Max. Zones	128
On-board zones	8
Bus PIR-cameras	48
Outputs	
Max. outputs	128
On-board PGM outputs	2
On-board relay outputs	2
Auxiliary Power Output	1
On-board sounder output	1
Areas	
Area	64
Peripherals	
Keypads	32
8-zone expanders	16
8-relay expanders	32
Wireless receivers	12
Power supply units	15
Video verification	
Network camera channels	32
Video verification network camera channels	Up to 16 (720p) Up to 8 (1080p)
Video verification clip duration	7 seconds
Pre-record	2 or 5 seconds
Programming	
Automation scenarios	256
Event logs	
Event log records	4950 including 1000 mandatory in flash memory
Users	
Admin	1
Installer	1
Max. operators	128
User (Cloud)	64
Authorization devices	
Keyfobs	64
Tags	252
Bus interconnection	
Bus ports	2
Bus technology	Half-Duplex RS-485
Bus wiring	4-Core Alarm Cable (at least 2 × 0.5 mm^2 + 2 × 0.22 mm^2)
Bus topologies	Daisy Chain, Cascade, Star, Ring
Range per Bus	Up to 500m (Up to 7.5km with bus-extenders, Up to 4km in loop mode, Up to 1km in compatible mode)
Bus-extenders per Bus	Up to 15 pcs, 500m in between
Devices per Bus	64 (32 in compatible mode)

Communication interfaces	
LAN/Ethernet	10/100 Mbps self-adaptive
Wi-Fi	802.11b/g/n (2.4GHz)
GPRS	Compatible with DS-PC501G(Optional)
4G/LTE	Compatible with DS-PC502S (Optional)
PSTN	Compatible with DS-PM2-P(Optional)
ARC connectivity	
ARCs	4
Signaling protocols	ISUP, Contact ID(PSTN), SIA DC-09, CSV-IP, OTAP
Ack. operation	Pass-through
ATS Categories	SP3, DP2 (with optional GPRS/4G communicator)
3rd party communicator	Compatible with FSK, RDC, IDS modules
Power supply - general	
PS type	Type A
Quiescent current	130 mA @15VDC (when on battery)
Power supply - primary power supply	
Mains Input	100-240VAC 50/60Hz, 0.3A
Power supply capacity	15.3 VDC 2.5 A (0.5 A dedicated to battery)
Power supply - auxiliary power supply	
Battery pack	1 × rechargeable sealed lead-acid (SLA) battery (not included by default)
Battery capacity	12VDC, up to 7Ah (≥ 5600 mAh in charged state)
Recommended battery	OUTDO OT7-12 (7Ah), Yuasa NP7-12FR (7Ah)
Battery stand-by	Up to 12 hrs
Recharge period	24 hrs to 80% (5600 mAh)
Floating voltage	13.8VDC
Low energy voltage	11.60±0.5 V (Restore when rise above 11.74±0.5 V)
Cut-off voltage	11.0 VDC for deep-discharge protection
Power supply - auxiliary power output	
Output capacity	Nominal 14.5VDC 1.5A, range 10.7-15 VDC with up to 120 mV ripple (Vpp)
Output protection	1.7 A resettable eFuse
Power supply - Bus power output	
Output capacity	Nominal 14.5VDC, range 10.7-15 VDC with up to 120 mV ripple (Vpp), max. 20W (shared AUX power output)
Output protection	(Shared AUX power output)
Power supply - sounder power output	
Output capacity	Nominal 14.5VDC 1.0A, range 10.7-15 VDC with up to 120 mV ripple (Vpp)
Output protection	1.3 A resettable eFuse
PGM output	
Output voltage	0 VDC with switched (NPN output)
Max. current	200 mA per output
Relay output	
Relay output	3A 30VDC, 1A 250VAC
Environmental	
Operating temperature	-10°C to 50°C (14°F to 122°F), indoor use only
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Relative humidity	10% ~ 90% non-condensing

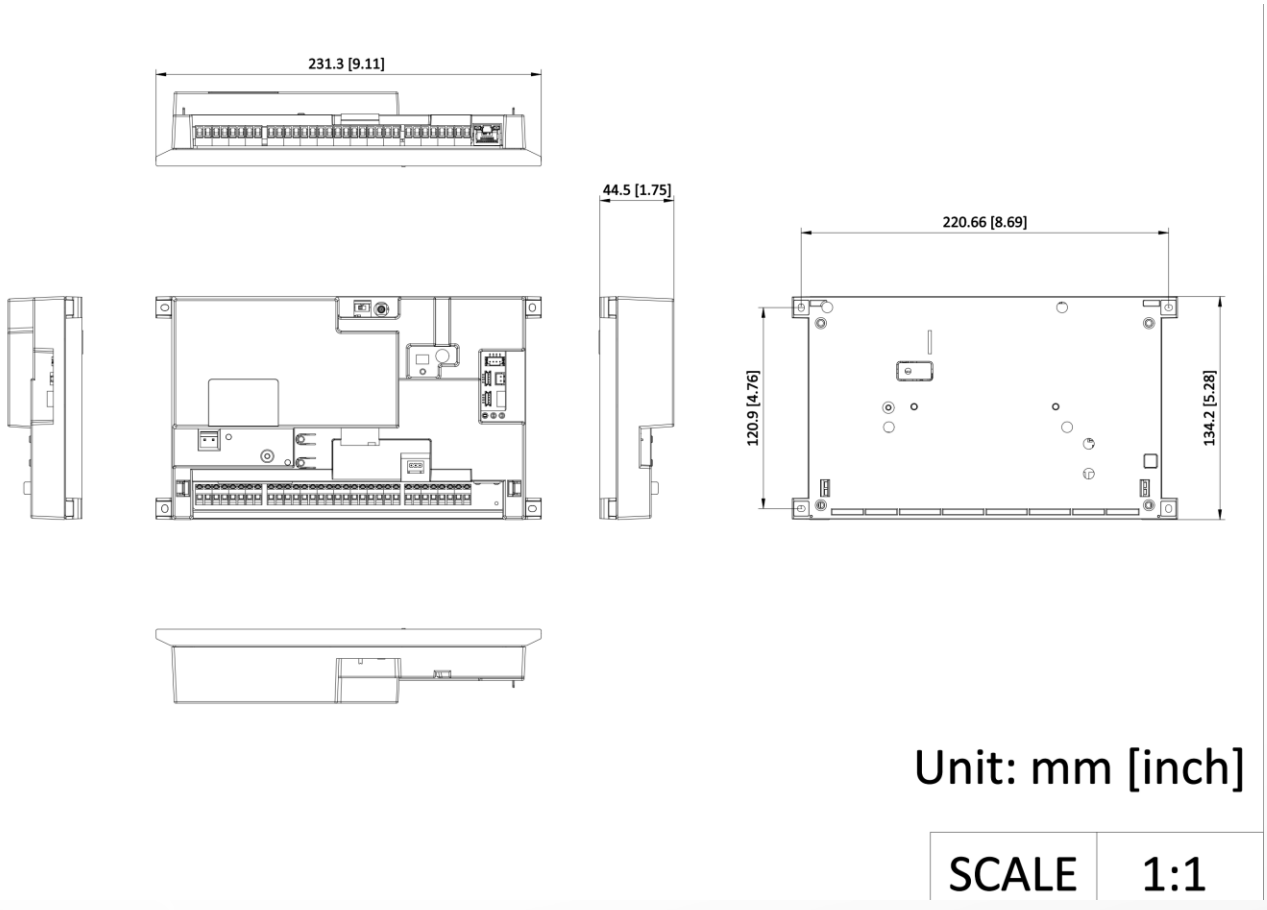
Physical	
Dimension (W × H × D)	231 × 133 × 44 mm
Weight	488 g
Compliance	
Electrical conformity	CE, CB
EN 50131	Security Grade 2, Environmental Class II

**Specifications are measured under laboratory conditions. Actual performance may vary depending on operating environment and application-specific factors.*
**Star topology is supported only in compatible mode or via a bus hub. Connecting multiple branches to a single bus port may significantly reduce bus range.*
**Quiescent current is specified in Wi-Fi standby mode, with Ethernet and all communicators disconnected.*
**Battery standby duration applies when all functions are operational and the load connected to the AUX-/AUX+ terminals does not exceed 336 mA.*
**ARC signalling complies with SIA IP Reporting (UDP/TCP-2013) as per ANSI/SIA DC-09-2013. The control panel supports ADM-CID and SIA-DCS protocols defined in SIA DC-07-2001.04. When transmission messages are AES-encrypted, a "*" is prefixed to the protocol name (e.g., *ADM-CID, *SIA-DCS). Supported encryption levels include AES-128, AES-192, and AES-256.*

▪ Available Model

DS-PA502-128

▪ Dimension



▪ Accessory

▪ Optional

DS-PC502S(EU)	DS-PC502S(AU)	DS-PC501G	DS-PM2-P	DS-PT061
				

DS-PZ501SHL-P	DS-PZ501SHL-M
	

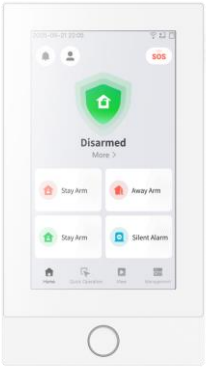
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DS-PK670W
Touchscreen Keypad

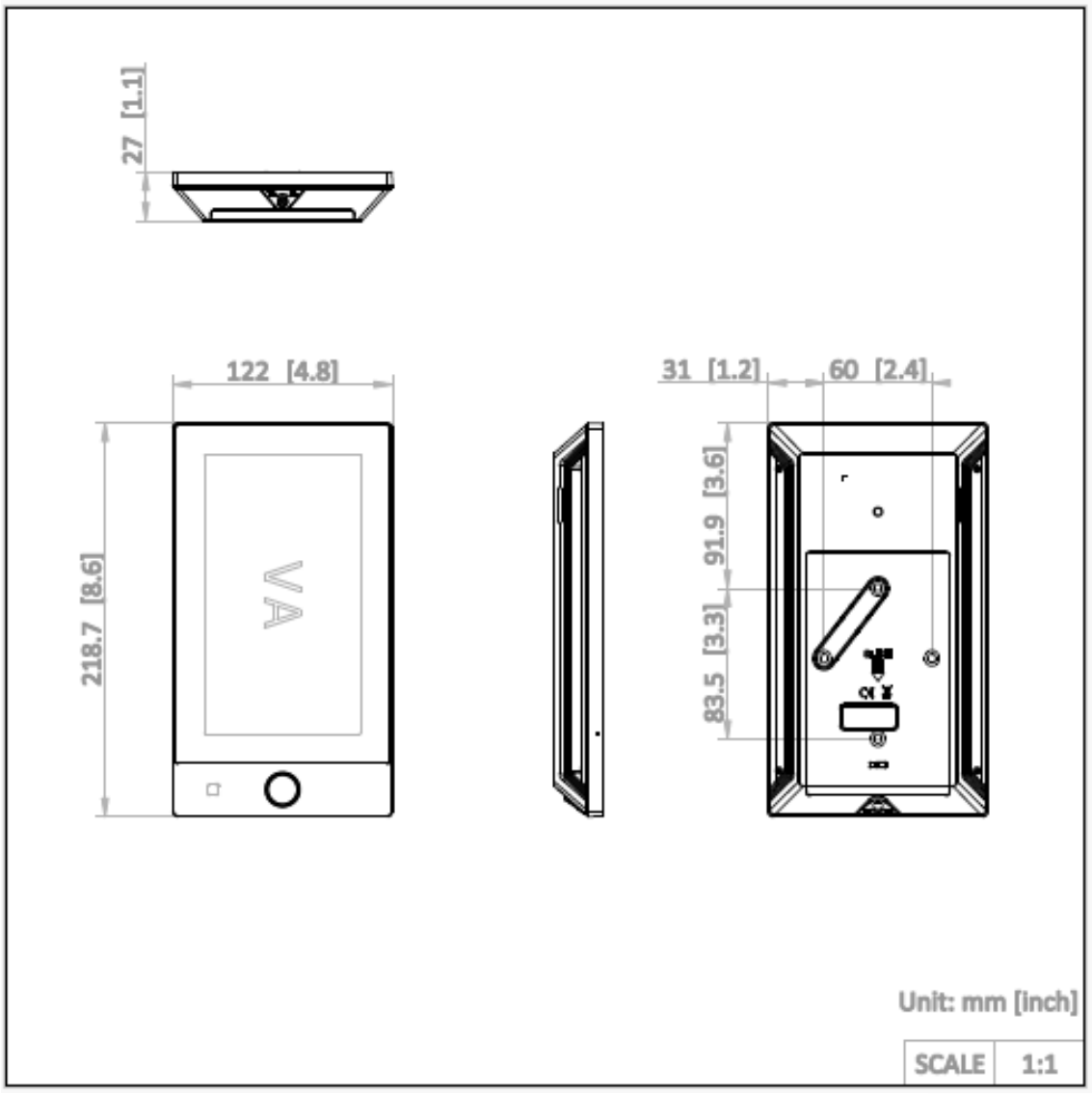


- 7-inch LCD touch screen with intuitive interface for clear display and easy system control.
- Supports live camera preview via Wi-Fi or LAN.
- Supports event review with verification video storage with TF card.
- Shortcut keys for quick operation and flexible relay or area control.

▪ Specification

Event logs	
Event log records	200
User interface	
Display	7" Colorful LCD with resolution 600*1024
Indication	1 indicator(Yellow\Green\Red)
Key button	1
Authentication	
PIN	4~6 digits
Bus interconnection	
Bus technology	Half-Duplex RS-485
Bus wiring	4-Core Alarm Cable (at least 2x0.5mm2+2x0.22mm2)
Communication interfaces	
LAN/Ethernet	Supported,10/100 Mbps self-adaptive
Wi-Fi	Supported,802.11b/g/n (2.4GHz)
Power supply - general	
Quiescent current	270mA@12VDC
Input voltage	12 VDC nominal (9~24 VDC),powered by bus
Max. current	400mA@12VDC
Relay output	
Relay output	NA
Environmental	
Operating temperature	-10°C to 50°C
Storage temperature	-10°C to 50°C
Relative humidity	10%-90% non-condensing
Physical	
Dimension (W × H × D)	122mmx218.7mmx27mm
Weight	400g
Installation method	Wall mounting
Tamper-proof	Front and Rear
Compliance	
Electrical conformity	CE,CB
EN 50131	Security Grade 2,Encironmental Class II
Indication	
LED indication	Supported
Hardware features	
SD card	FAT32,up to 128G For storing alarm verification videos or pictures
Loudspeaker	Supported
Mic	Reserved
Debug port	2
General	
Application scenario	Indoor
Shell material	Plastic
Color	White or Black

- **Dimension**


27 [1.1]
122 [4.8]
218.7 [8.6]
31 [1.2]
60 [2.4]
91.9 [3.6]
83.5 [3.3]
Unit: mm [inch]
SCALE
1:1

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