

DH-XVR5116HS-I3

16 Channels Penta-brid 5M-N/1080P Compact 1U 1HDD WizSense Digital Video Recorder



WizSense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-I3 Series featuring max.full-channel SMD Plus to benefit customers from AI upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

Functions

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

*Face Recognition takes effect when Face is selected in AI Mode.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

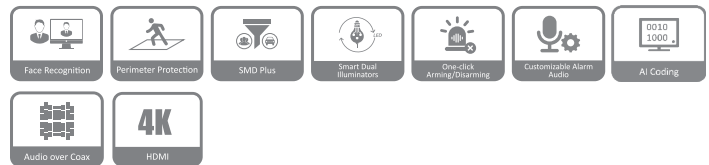
*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

- H.265+/H.265 dual-stream video compression
- Supports Full-channel AI Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 128 Mbps incoming bandwidth
- Up to 4 channels video stream (analog channel) Perimeter Protection
- Up to 16 channels video stream (analog channel) SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition
- IoT & POS functionalities



Smart Dual Illuminators

With Smart Dual Illuminators technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of AI-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

One-click Arming/Disarming

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

Customizable Alarm Audio

Designed for your convenience, the TIOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

AI Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

Audio over Coax

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Technical Specification

System

Main Processor	Embedded processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

Perimeter Protection

Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model: 2 channel, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel
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Face Detection

Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s)

Face Recognition

Face Database Capacity	Up to 10 face databases with 10000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries®ions and state can be added to each face picture
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels

SMD Plus

SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change
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Audio and Video

Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect
Camera Input	1. CVI: 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps. 2. TVI: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps. 3. AHD: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps.
IP Camera Input	Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.
Encoding Capacity	Main stream: All channel 5M-N (1 fps~10 fps); 4M-N/1080p (1 fps~15 fps); 1080N/720p/960H/D1/CIF (1 fps~25/30 fps) Sub stream: Supported (D1/CIF (1 fps~15 fps)).
Dual-stream	Yes
Video Frame Rate	PAL: 1 fps~25 fps. NTSC: 1 fps~30 fps.
Video Bit Rate	32 Kbps~6144 Kbps Per Channel
Audio Sampling	8 KHz, 16 bit
Audio Bit Rate	64 Kbps

Video Output	1 HDMI ,1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode.
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25
Third-party Camera Access	Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung

Compression Standard

Video Compression	AI Coding/H.265+/H.265/H.264+/H.264
Audio Compression	G.711A/G.711u/PCM

Network

Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P
Mobile Phone Access	iPhone, iPad, Android
Interoperability	ONVIF 21.06, CGI
Browser	Chrome, IE9 or above, Firefox
Network Mode	Single-address mode

Recording Playback

Record Mode	General, motion detection; intelligent; alarm; POS
Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode.
Backup Method	USB Device/Network
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)

Alarm

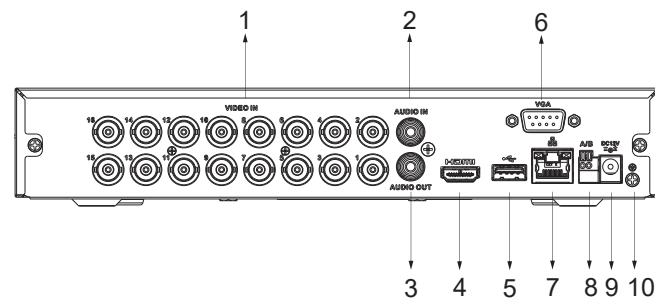
General Alarm	Motion detection, Video Loss, tampering
Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict
Intelligent Alarm	Face detection, face recognition, perimeter protection
Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email

Ports

Audio Input	1-channel RCA (external) 16-channel BNC (coaxial audio)
Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	1 SATA Port, up to 16TB, the maximum HDD capacity varies with environment temperature
RS-485	1 Port, for PTZ Control
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)
HDMI	1
VGA	1

Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
General	
Power Supply	DC12V, 2A
Power Consumption	Lower than 12 W
Net Weight	1.17 kg (2.58 lb)
Gross Weight	1.57 kg (3.46 lb)
Product Dimensions	Compact 1U, 260.0 mm × 237.9 mm × 47.6 mm 10.24" × 9.37" × 1.87" (W × D × H)
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm 13.11" × 3.50" × 12.40" (W × D × H)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	10%–90%
Installation	Desktop
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B

Panels

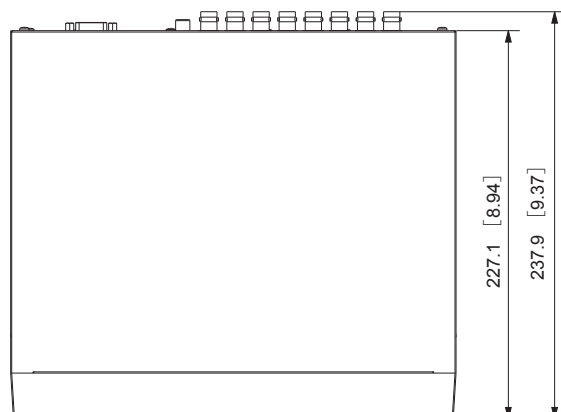
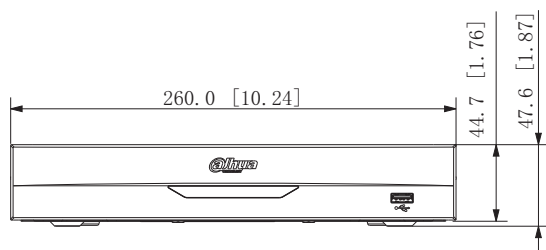


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|----------------------------|---------------------------|
| 1 VIDEO IN | 2 AUDIO IN, RCA Connector |
| 3 AUDIO OUT, RCA Connector | 4 HDMI Port |
| 5 USB Port | 6 VGA Port |
| 7 Network Port | 8 RS-485 Port |
| 9 Power Input | 10 Ground |

Ordering Information

Type	Model	Description
16 Channels WizSense XVR	DH-XVR5116HS-I3	Compact 1U DIGITAL VIDEO RECORDER

Dimensions (mm[inch])





3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.
Surveillance-Specialised Storage



SkyHawk™ leverages Seagate's extensive experience in designing drives purpose-built for surveillance applications.



Best-Fit Applications

- Network video recorders (NVR)
- Video DVRs



SKYHAWK
HEALTH



Key Advantages

ImagePerfect™ firmware is designed to ensure seamless video footage capture in 24x7 surveillance workloads¹ that record video from 64 HD cameras.

SkyHawk Health Management actively helps protect your surveillance storage by focusing on prevention, intervention, and recovery options.² Included is RAID RapidRebuild™, which provides 3x faster volume rebuilds over traditional RAID rebuilds.

Unparalleled data protection with included 3-year Rescue Data Recovery Services plan, helping protect important video data with Seagate's in-house data recovery services.

RV sensors built in allow drives to maintain performance in multi-bay systems, giving customers the flexibility to scale their systems when more storage is needed.

ATA streaming support enables recordings from up to 64 HD cameras for smooth, uninterrupted footage.

1 M hours MTBF, 3-year limited warranty³ represents an improved total cost of ownership (TCO) with reduced maintenance costs.

Lower power consumption means a reduction in heat emissions, which improves reliability in surveillance solutions. Tarnish-resistant components help protect drive from environmental elements, increasing field reliability.

¹ SkyHawk video drives are designed for always-on workloads of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

² Contact your Seagate sales representative for further information.

³ Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.



Specifications	8TB	6TB	4TB	3TB	2TB
Standard Model Numbers with SRS	ST8000VX010	ST6000VX009	ST4000VX016	ST3000VX015	ST2000VX017
SkyHawk™ Health Management Included	Yes	Yes	Yes	Yes	Yes
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Recording Technology	CMR	CMR	CMR	CMR	CMR
Drive Design	Air	Air	Air	Air	Air
Features and Performance					
Drive Bays Supported	Up to 16	Up to 16	Up to 16	Up to 8	Up to 8
Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64
RV Sensors	Yes	Yes	Yes	-	-
Max Sustained Transfer Rate OD (MB/s)	180MB/s	180MB/s	180MB/s	180MB/s	180MB/s
Cache (MB)	256MB	256MB	256MB	256MB	256MB
Reliability/Data Integrity					
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
Load/Unload Cycles	600,000	600,000	600,000	600,000	600,000
Non-recoverable Read Errors Rate, Max	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per year	8,760	8,760	8,760	8,760	8,760
Workload Rate Limit (WRL) ¹	180	180	180	180	180
Mean Time Between Failures (MTBF) (hours)	1000000 hr	1000000 hr	1000000 hr	1000000 hr	1000000 hr
Warranty, Limited (years) ²	3	3	3	3	3
Rescue Data Recovery Services (years) ³	3	3	3	3	3
Power Management					
Startup Current, Typical (12V, A)	1.8 A	1.8 A	1.8 A	1.8 A	1.8 A
Average Operating Power (W)	5.3 W	5.3 W	3.7 W	3.7 W	3.7 W
Idling Average (W)	3.4 W	3.4 W	2.5 W	2.5 W	2.5 W
Standby Mode/Sleep Mode, Typical (W)	0.25 W	0.25 W	0.25 W	0.25 W	0.25 W
Voltage Tolerance (5 V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12 V)	±10%	±10%	±10%	±10%	±10%
Environmental/Temperature					
Operating (ambient, min °C)	0°C	0°C	0°C	0°C	0°C
Operating (drive reported, max °C) ⁴	65°C	65°C	65°C	65°C	65°C
Non-operating (ambient, min °C)	-40°C	-40°C	-40°C	-40°C	-40°C
Physical					
Height (mm/in, max)	26.1 mm/1.028 in	26.1 mm/1.028 in	20.20 mm/0.795 in	20.20 mm/0.795 in	20.20 mm/0.795 in
Width (mm/in, max)	101.6 mm/4.00 in	101.6 mm/4.00 in	101.6 mm/4.0 in	101.6 mm/4.0 in	101.6 mm/4.00 in
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (g/lb, typical)	630 g/1.389 lb	630 g/1.389 lb	490 g/1.08 lb	490 g/1.08 lb	415 g/0.915 lb
Carton Unit Quantity	20	20	25	25	25
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8

¹ SkyHawk surveillance drives are designed for always-on workloads of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

² Extended warranty options available. Consult your distributor for details.

³ From May 1, 2020, 3-year Rescue Data Recovery Services plan may be offered in addition to standard warranty. This is offered for selected regions only. Check with reseller on availability.

⁴ Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.



Specifications	1TB
Standard Model Numbers with SRS	ST1000VX013
SkyHawk™ Health Management Included	Yes
Interface	SATA 6 Gb/s
Recording Technology	CMR
Drive Design	Air
Features and Performance	
Drive Bays Supported	Up to 8
Cameras Supported	Up to 64
RV Sensors	-
Max Sustained Transfer Rate OD (MB/s)	180MB/s
Cache (MB)	256MB
Reliability/Data Integrity	
Tarnish Resistant	Yes
Load/Unload Cycles	600,000
Non-recoverable Read Errors Rate, Max	1 per 10E14
Power-On Hours per year	8,760
Workload Rate Limit (WRL) ¹	180
Mean Time Between Failures (MTBF) (hours)	1000000 hr
Warranty, Limited (years) ²	3
Rescue Data Recovery Services (years) ³	-
Power Management	
Startup Current, Typical (12V, A)	1.8 A
Average Operating Power (W)	3.7 W
Idling Average (W)	2.5 W
Standby Mode/Sleep Mode, Typical (W)	0.25 W
Voltage Tolerance (5 V)	±5%
Voltage Tolerance (12 V)	±10%
Environmental/Temperature	
Operating (ambient, min °C)	0°C
Operating (drive reported, max °C) ⁴	65°C
Non-operating (ambient, min °C)	-40°C
Physical	
Height (mm/in, max)	20.20 mm/0.795 in
Width (mm/in, max)	101.6 mm/4.00 in
Depth (mm/in, max)	146.99 mm/5.787 in
Weight (g/lb, typical)	415 g/0.915 lb
Carton Unit Quantity	25
Cartons per Pallet / Cartons per Layer	40/8

1 SkyHawk surveillance drives are designed for always-on workloads of 180 TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

2 Extended warranty options available. Consult your distributor for details.

3 From May 1, 2020, 3-year Rescue Data Recovery Services plan may be offered in addition to standard warranty. This is offered for selected regions only. Check with reseller on availability.

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DH-HAC-HFW1500R-Z-IRE6(-A)

5MP Starlight HDCVI IR Bullet Camera



* The parameters and datasheets below can only be applied to 1500-S2 series.

- Max 25 fps@5MP (16:9 video output)
- CVI/CVBS/AHD/TVI switchable
- 2.7 mm–12 mm motorized lens
- Built-in mic(-A)
- Max. IR length 60 m, Smart IR
- IP67, 12V DC



System Overview

Experience 5MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 5MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance make the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m for 5MP HD video through coaxial cable, and up to 300 m through UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu. This feature makes the camera compatible with most end users' existing HD/SD DVRs.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -30°C to $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$), the camera is designed for extreme temperature environments. Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4kV lightning rating provides protection against the camera and its structure from the effects of lightning.

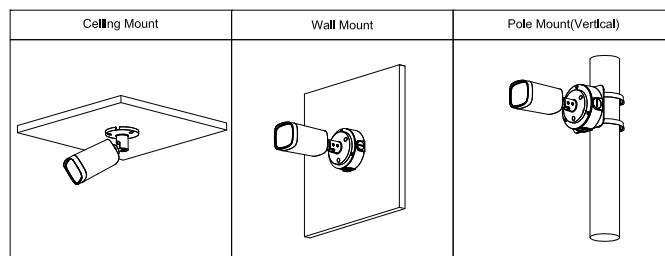
Technical Specification					
Camera					
Image Sensor		1/2.7 inch CMOS			
Max. Resolution		2880 (H) × 1620 (V)			
Pixel		5MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s			
S/N Ratio		> 65 dB			
Min. Illumination		0.005 Lux/F1.6, 30IRE, 0 Lux IR on			
Illumination Distance		60 m (196.9 ft)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		4			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Auto Focus		N/A			
Mount Type		φ14			
Focal Length		2.7 mm–12 mm			
Max. Aperture		F1.6			
Field of View		Diagonal: 39°–130° Horizontal: 34°–107° Vertical: 19°–55°			
Iris Type		Fixed iris			
Close Focus Distance		0.5 m (1.64 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.7 mm	69 m (226.37 ft)	27.6 m (90.55 ft)	13.8 m (45.27 ft)	6.9 m (22.63 ft)
	12 mm	191.6 m (628.6 ft)	76.64 m (251.44 ft)	38.32 m (125.72 ft)	19.16 m (62.86 ft)
Video					
Frame Rate		CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H			
Resolution		5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)			
Day/Night		Auto switch by ICR			
BLC		BLC/HLC/DWDR			
WDR		DWDR			

White Balance		Auto; manual
Gain Control		Auto; manual
Noise Reduction		2D NR
Smart IR		Yes
Mirror		Off/On
Privacy Masking		Off/On (8 areas, rectangle)
Certifications		
Certifications		CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014, EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Port		
Audio Output		One channel built-in mic (-A)
Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power		
Power Supply		DC 12V ±30%
Power Consumption		Max 9.8W (12V DC, IR on)
Environment		
Operating Temperature		–30°C to +60°C (–22°F to +140°F); < 95% (non-condensation)
Storage Temperature		–30°C to +60°C (–22°F to +140°F); < 95% (non-condensation)
Protection Grade		IP67
Structure		
Casing		Metal throughout the whole casing
Camera Dimensions		209.9 mm × 90.4 mm × 90.4 mm (8.26" × 3.56" × 3.56")
Net Weight		0.55 kg (1.21 lb)
Gross Weight		0.7 kg (1.54 lb)

Ordering Information		
Type	Part Number	Description
5MP Starlight Camera	DH-HAC-HFW1500RP-Z-IRE6 2.7 mm–12 mm	5MP Starlight HDCVI IR Bullet Camera
	DH-HAC-HFW1500RN-Z-IRE6 2.7 mm–12 mm	
	DH-HAC-HFW1500RP-Z-IRE6-A 2.7 mm–12 mm	
	DH-HAC-HFW1500RN-Z-IRE6-A 2.7 mm–12 mm	
Accessories	PFA13G	Junction Box
	PFA130-E	IP66 Junction box (Use alone or with PFA152-E pole mount)
	PFA152-E	Pole Mount Bracket (Use with PFB211W)

PFM800-4K	Passive HDCVI Balun
PFM321	12V 1A Power Adapter
PFM320D-015	12V 1.5A Power Adapter
PFM820 (Only 1080p and below are available)	UTC Controller
PFM904	Integrated Mount Tester

Installation

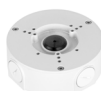


Accessories

Optional:



PFA13G
Junction Box



PFA130-E
IP66 Junction box
(For use alone or with
PFA152-E pole mount)



PFA152-E
Pole Mount Bracket
(For use with PFB211W)



PFM800-4K
Passive HDCVI Balun



PFM321
12V 1A Power Adapter



PFM320D-015
12V 1.5A Power Adapter

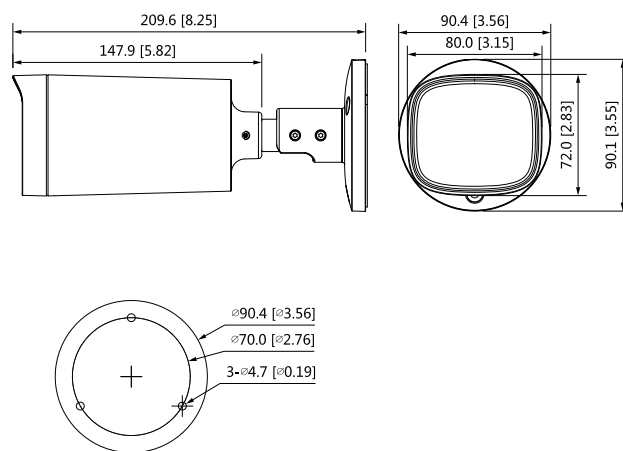


PFM820
(Only 1080P and below
are available)
Ceiling Mount Bracket
UTC Controller



PFM904
Integrated Mount Tester

Dimensions (mm [inch])





BALUN PASIV 4K KM-BP01-4K



Testează
produsul



Suport
tehnic

Întrebări despre acest produs?
Dă-ne mesaj și noi îți dăm răspunsul!



- Balun pasiv- transmițător/ receptor
- Transmisie semnal pe 1 canal
- Distanță transmisie: 720P - 470m, 1080P-230m, 4K-200m



SURSĂ 12V/1A KM-PS02



Testează
produsul



Suport
tehnic

Întrebări despre acest produs?
Dă-ne mesaj și noi îți dăm răspunsul!



Sursă în comutație 12V/1A

Horus Plus 1000

The power keeper

PN: PWUP-LI100H1-AZ01B
EAN: 6422956006433



Specifications

Capacity	1000 VA / 600 W
Type	Line Interactive
Input	
Nominal Voltage	230 VAC
Accepted Voltage Range	170-280 VAC
Frequency Range	60/50 Hz (auto sensing)
Output	
Nominal Voltage	230 VAC
AC Voltage Regulation (Batt. Mode)	±10%
Frequency Range (Batt. Mode)	60 Hz or 50 Hz ±1 Hz
Waveform (Batt. Mode)	Simulated Sine Wave
Transfer Time	Typical 2-6 ms
AVR	
Type	2 Boost / 1 Buck
Indicators type	
LCD Display	Input voltage, output voltage, battery capacity, load level and UPS status
Alarm	
Battery Mode	Sounding every 10 seconds
Low Battery	Sounding every second
Overload	Sounding every 0.5 seconds
Fault	Continuously sounding
Protection	
Outlets type	4 x Schuko Battery Backup 2 x RJ11/45 (IN/OUT) for modem/phone/LAN surge protection
Full protection	Over/ under voltage protection, Overload, Discharge and Overcharge Protection



Software
Included



Auto-Restart



LCD Touchscreen
display

- Touchscreen LCD to display UPS information circularly
- Excellent microprocessor control guarantees high reliability
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Simulated sine wave
- Off-mode charging
- Cold start function
- Software Management (ViewPower)

Environnement

Humidity	0-90 % RH @ 0-40°C (non-condensing)
Noise level	Less than 40dB

Battery

Battery Type & Number	2x GP07122L PN: BTVACEUOATG2LAZ01B
Typical Recharge Time	4-6 hours up to 90% capacity
Running time on battery (minutes)	25% Load - 19 min 50% Load - 5.5 min 75% Load - < 2 min 100% Load - < 1 min

Management

Connection port	USB
Software	https://www.power-software-download.com/viewpower.html
Software capability	Monitor & Control over USB

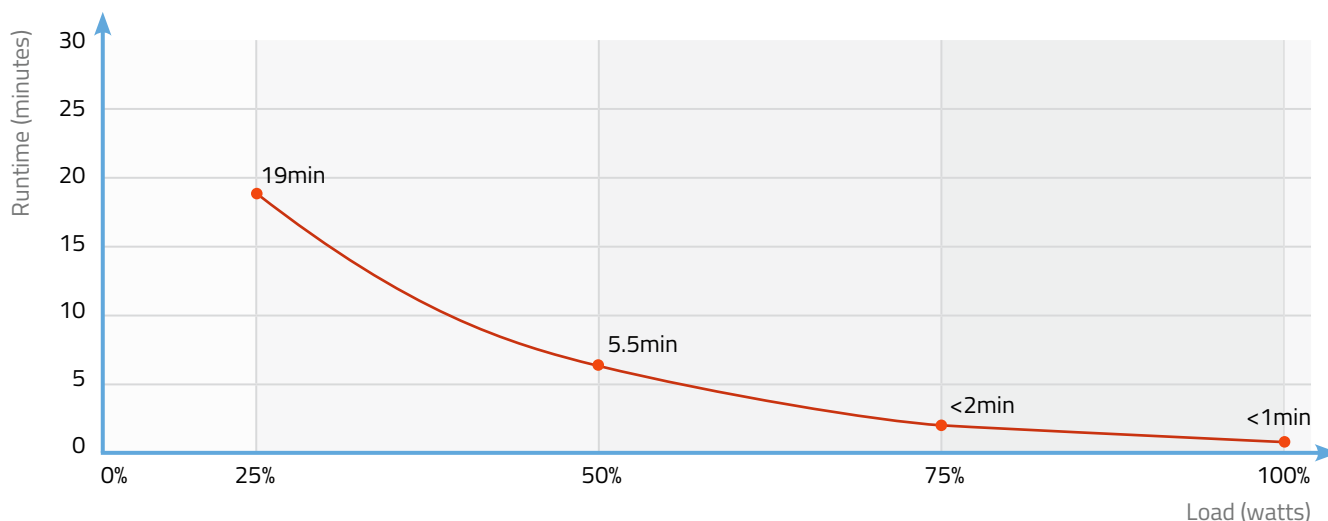


Physical

Product dimensions	320 x 130 x 182 mm
Product weight	7.8 kg
Retail Pack Dimensions	390 x 192 x 275 mm
Retail Pack Weight	8.26 kg



Running time on battery



Logistics

Carton Box Size	390 x 192 x 275 mm
Pieces in the Carton Box	1 pcs / ctn
Net & Gross weight / CTN	N.W. / G.W.: 7.8 kg / 8.26 kg



Certificates





DETALII



Predecupări montare ventilatoare



Panouri laterale detaşabile
(posibilitate blocare opţională)



Acces cabluri panou spate



Uşă din sticlă securizată,
încuietoare metalică



Montanţi faţă-spate zincati
(impământare opţională)

STANDARDE

Conform ANSI/EIA RS-310-D, DIN41497 part 1, IEC297-2, DIN41494 part 7, GB/T3047.2-92

CARACTERISTICI

Standard industrial 19 inch

Panouri laterale detaşabile (blocare opţională)

Predecupare pentru acces cabluri în panoul superior, inferior, spate

Uşă din sticlă securizată, prevăzută cu încuietoare metalică

Deschidere uşă la 180 grade

Asamblare şi montare uşoară

Gamă variată de dimensiuni şi accesorii

CAPACITATE ÎNCĂRCARE

80 Kg

GRAD DE PROTECŢIE

IP 20

MATERIAL

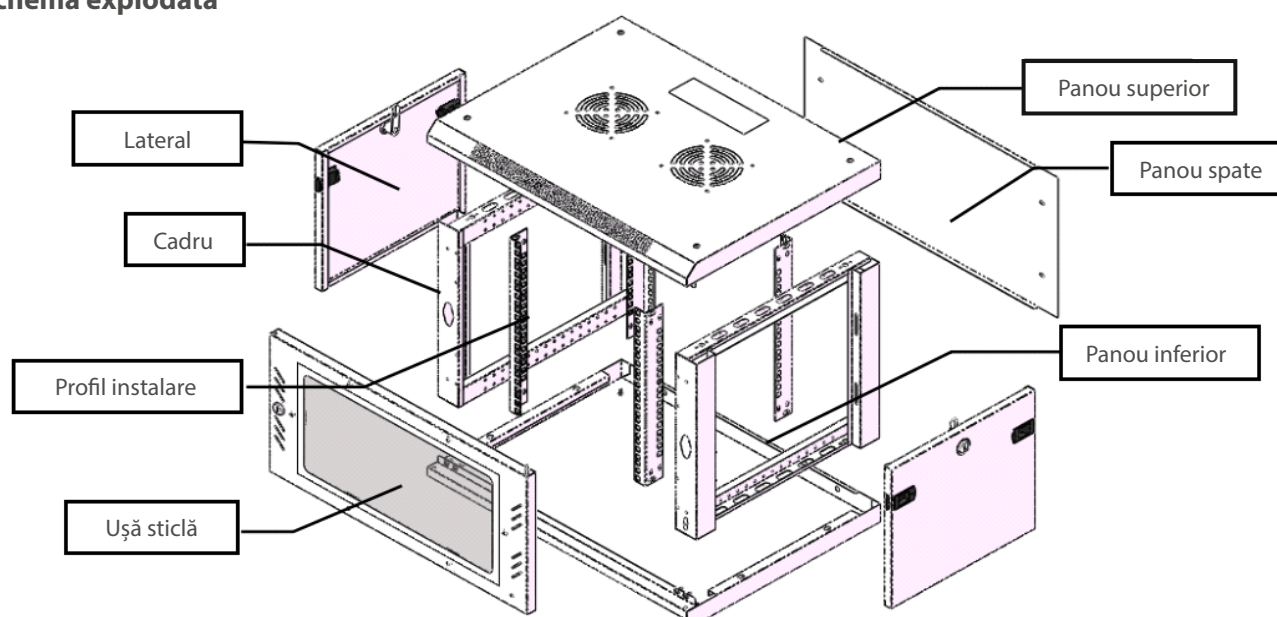
Tablă de oţel laminat la rece, fosfatată (SPCC)

Grosime: 2.0mm-1.0mm-0.8mm

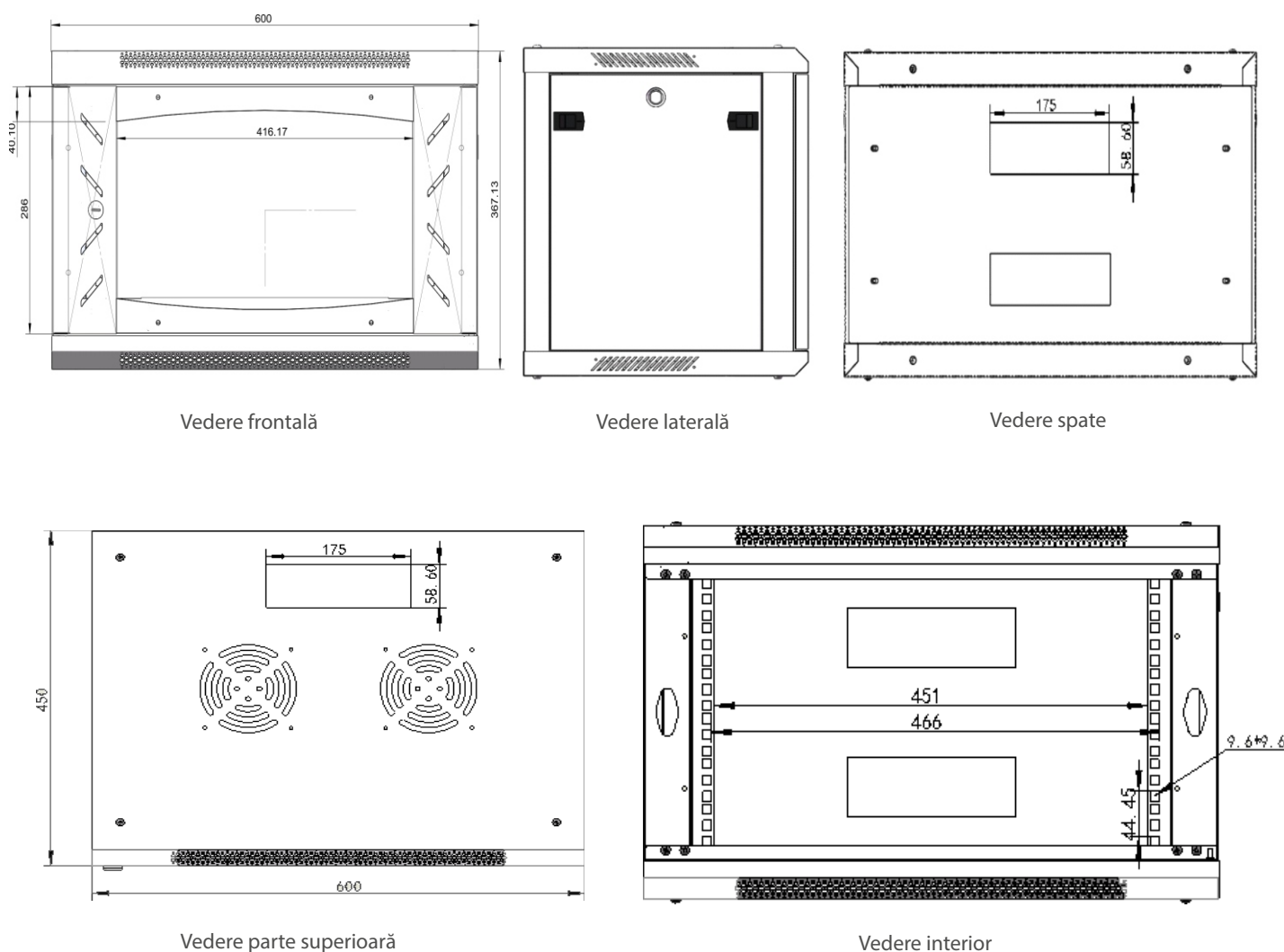
TRATAMENT MATERIAL

Vopsire în câmp electrostatic

Schemă explodată



DIMENSIUNI





COMPONENȚĂ

S/N	DENUMIRE	CANT.	UM	MATERIAL	SUPRAFAȚĂ	OBSERVAȚII
1	Montanți	4	Buc.	Oțel galvanizat 2.0 mm	Zincare	marcaje U
2	Ramă montaj	2	Buc.	Tablă oțel laminat la rece, fosfatată 1.0 mm (SPCC)	Vopsire în câmp electrostatic	
3	Panou lateral	2	Buc.	Tablă oțel laminat la rece, fosfatată 1.0 mm (SPCC)		
4	Panou superior	1	Buc.	Tablă oțel laminat la rece, fosfatată 1.0 mm (SPCC)		
5	Panou inferior	1	Buc.	Tablă oțel laminat la rece, fosfatată 1.0 mm (SPCC)		
6	Panou spate	1	Buc.	Tablă oțel laminat la rece, fosfatată 1.0 mm (SPCC)		
7	Ușă frontală	1	Buc.	Sticlă securizată 5 mm / SPCC 1.0 mm		
8	Încuietoare	1	Buc.	Oțel	Cromare	2 chei
9	Piulițe pătrate M6	20	Buc.	Oțel	Cromare	
10	Șuruburi cap hexagonal M6	20	Buc.	Oțel	Cromare	
11	Cheie inbus	1	Buc.	Oțel	Cromare	

SPECIFICAȚII

MODEL	CAPACITATE	LĂȚIME	ADÂNCIME	ÎNĂLȚIME	DIMENSIUNI PACHET	VOLUM
	(UI)	(mm)	(mm)	(mm)	(mm)	(MC)
ASY-4U-6045W	4	600	450	280	635 x 485 x 160	0.049
ASY-4U-6060W			600		635 x 635 x 230	0.093
ASY-6U-6045W	6	600	450	368	635 x 485 x 160	0.049
ASY-6U-6060W			600		635 x 635 x 230	0.093
ASY-9U-6045W	9	600	450	501	635 x 485 x 235	0.072
ASY-9U-6060W			600		635 x 635 x 231	0.093
ASY-12U-6045W	12	600	450	635	665 x 595 x 236	0.093
ASY-12U-6060W			600		665 x 635 x 231	0.098
ASY-15U-6045W	15	600	450	769	635 x 940 x 98, 802 x 460 x 132	0.137
ASY-15U-6060W			600		635 x 757 x 236	0.113
ASY-18U-6045W	18	600	450	901	635 x 940 x 98, 935 x 460 x 132	0.137
ASY-18U-6060W			600		935 x 630 x 236	0.139

CULOARE

RAL9004	RAL7035
NEGRU	GRI
	

CABLURI UTP si FTP**Prezentare generala:****Cablu UTP**

Este format din 4 perechi de fire, izolate intre ele. Prin torsadarea perechilor de fire apare efectul de anulare, efect ce limiteaza degradarea semnalului util din cauza interferentelor magnetice.

Cablul torsadat neecranat este cea mai des întâlnită variantă de cablu torsadat din rețelele de date.

Cablu Cat 5e: Frecventa maxima de functionare: 150 MHz; Distanța maxima: 100 metri; Viteza maxima de transfer date: 100Mbps.

Cablu Cat 6: Frecventa maxima de functionare: 250 MHz; Distanța maxima: 100 metri; Viteza maxima de transfer date: 1000 Mbps

Cablu FTP

Cablul FTP este un cablu UTP in care conductorii sunt înveliti într-o folie exterioara de ecranare in scopul protejarii împotriva interferentelor externe.

Folia exterioara are, de asemenea, rolul de conductor de împamantare.

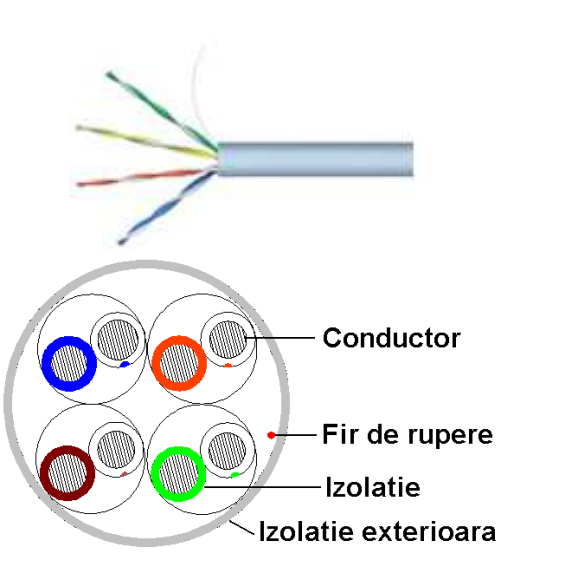
Cablurile din categoria 5E se poate utiliza pana la frecvente de 100 MHz.

Cablurile din categoria 6 se poate utiliza pana la frecvente de 250 MHz.

Prezentare produse:

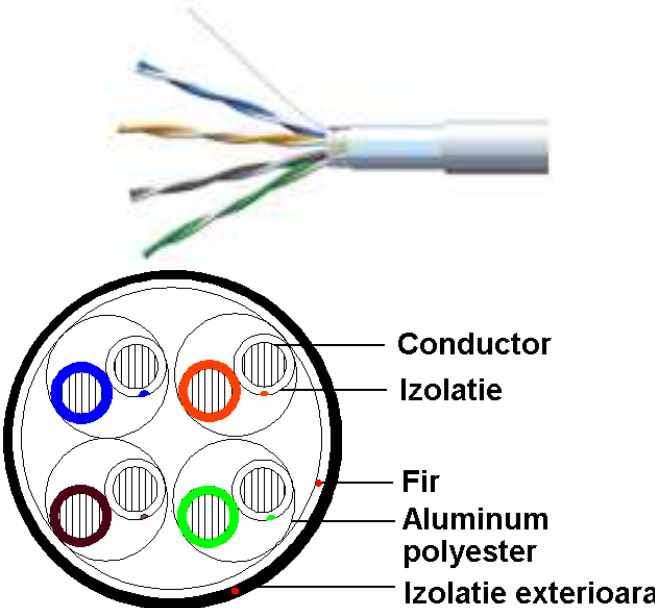
MF0031-04005	CABLU UTP - CAT5E (RIGID)	4P/24#	305 m / cutie
MF0031-04007	CABLU UTP - CAT5E (RIGID) CCA	4P/24#	305 m / cutie
MF0031-04010	CABLU UTP - CAT5E(FLEXIBIL)	4P/24#	305 m / cutie
MF0031-04015	CABLU FTP - CAT5E(RIGID)	4P/24#	305 m / cutie
MF0031-04017	CABLU FTP - CAT5E(FLEXIBIL)	4P/26#	305 m / cutie
MF0031-04030	CABLU UTP - CAT6 (RIGID)	4P/23#	305 m / cutie
MF0031-04060	CABLU FTP - CAT6 (RIGID)	4P/23#	305 m / cutie

Caracteristici tehnice:**A. Generale****a) Cablu UTP CAT 5E**

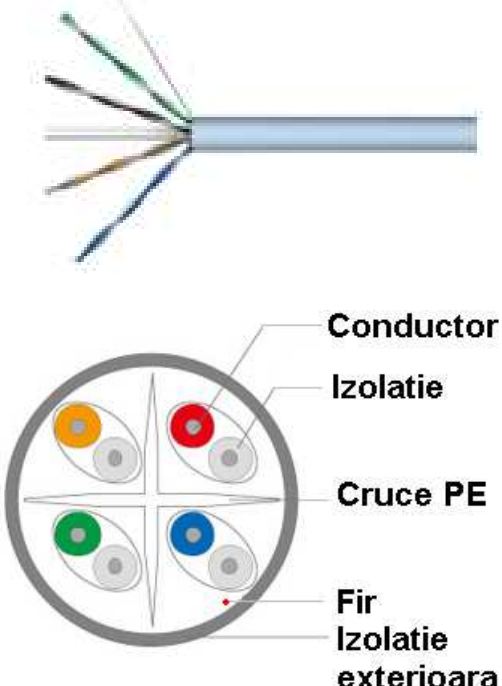
Standard		CEI 11801 ANSI/TIA/EIA 568 A	
Numar perechi		4	
Conductor interior	material	Cupru	
	variante constructive	Unifilar - rigid Multifilar - flexibil	
	constructie	24AWG	
Izolatie	material	PE solid	
	diamteru	0.88 mm ± 0.01 mm	
Fir de rupere	material	nylon	
Izolatie exterioara	material	PVC	
	grosime	0.5 mm (min. 0.4 mm)	

	diametru exterior	5.1mm ±0.5mm	
	culoare	gri	

b) Cablu FTP CAT 5E

Standard		CEI 11801 ANSI/TIA/EIA 568 A	 <p>Conductor Izolatie Fir Aluminum polyester Izolatie exterioara</p>
Numar perechi		4	
Conductor	material	Cupru	
	variante constructive	Unifilar - rigid Multifilar - flexibil	
	constructie	26AWG	
Izolatie	material	PE solid	
	diamteru	1.02±0.05mm	
Cruce	material	HDPE	
	dimensiuni	4 x 4 mm	
Impamantare	Cupru cositorit	0.4 mm	
Fir de rupere	material	nylon	
Izolatie exterioara	material	PVC	
	grosime	0.55 mm	
	diametru exterior	6 mm ±0.5mm	
	Culoare	gri	

c) Cablu UTP CAT 6

Standard		CEI 11801 ANSI/TIA/EIA 568 A	 <p>Conductor Izolatie Cruce PE Fir Izolatie exterioara</p>
Numar perechi		4	
Conductor	material	cupru	
	variante constructive	Unifilar - rigid Multifilar - flexibil	
	constructie	23AWG	
Izolatie	material	HDPE	
	grosime	0.22 ± 0.02 mm	
	diamteru	1.02±0.05mm	
Cruce	material	HDPE	
	dimensiuni	4 x 4 mm	
Fir de rupere	Material	nylon	
Izolatie exterioara	material	PVC	
	grosime	0.50 mm Min. 0.4 mm	
	diametru exterior	6.3 mm ±0.2 mm	
Culoare izolatie		gri	

B. Electrice**a) Cablu CAT 5E**

Frecventa (Mhz)	Return loss (db)	Atenuare (db/100m)	NEXT (db)	PS NEXT(db)	ELFEXT(db)	PS ELFEXT(db)
1	20.0	2.04	65.3	62.3	63.8	60.8
4	23.0	4.12	56.3	53.3	51.8	48.8
10	25.0	6.60	50.3	47.3	43.8	40.8
16	25.0	8.20	47.2	44.2	39.7	36.7
20	25.0	9.30	45.8	42.0	37.8	34.8
25	24.3	10.40	44.3	41.3	35.8	32.8
31.25	23.6	11.70	42.9	39.9	33.9	30.9
62.5	21.5	17.00	38.4	35.4	27.9	24.9
100	20.1	22.00	35.3	32.3	23.8	20.8

b) Cablu CAT 6

Frequency (Mhz)	Return loss (db)	Attenuation (db/100m)	NEXT (db)	PS NEXT(db)	ELFEXT (db)	PS ELFEXT(db)
1	20.0	2.00	74.3	72.3	67.8	64.8
4	23.0	3.80	65.3	63.4	55.8	52.8
10	25.0	5.30	59.3	57.3	47.8	44.8
20	25.0	8.50	54.8	52.8	41.8	38.8
62.5	21.5	15.40	47.7	45.4	42.0	29.1
100	20.1	19.80	44.3	42.3	27.8	25
150	18.9	24.70	41.7	39.7	24.3	21.3
200	18.0	29.00	39.8	37.8	21.8	19.0
250	17.3	32.80	38.3	36.3	20.4	17.0

Instructiuni de siguranta si protectie:

- Conexiunile vor fi realizate de o persoana calificata.

Instructiuni de ambalare:

- Tamburul cu cablu se introduce intr-o cutie pe care este lipita eticheta cu cod de bara.

Instructiuni de transport:

- Transportul, manipularea si depozitarea se va face fara deteriorarea cablului.
- Deasupra colacului nu se aseaza obiecte grele, deoarece cablul poate fi distrus.
- Colacii trebuie pozitionati, astfel incat in timpul transportului sa nu se deplaseze.
- Nu se aseaza langa corpuri dure sau ascutite, care pot distruge cablul in timpul transportului.

Instructiuni de manipulare:

- Se pot aseza pe un palet, pentru mutarea mai multor cutii, de catre mijloace speciale de manipulare.

Instructiuni de depozitare:

- Spatiul de depozitare trebuie sa fie inchis, uscat, cu temperaturi cuprinse intre -20°C si +50°C, fara praf si intr-un mediu lipsit de substante active chimic.
- Nu este permisa depozitarea pe termen lung, in locuri expuse la actiunea razelor solare.

DH-PFA121

Water-proof Junction Box



Features

- Aesthetic design
- Material: aluminum
- IP66 junction box

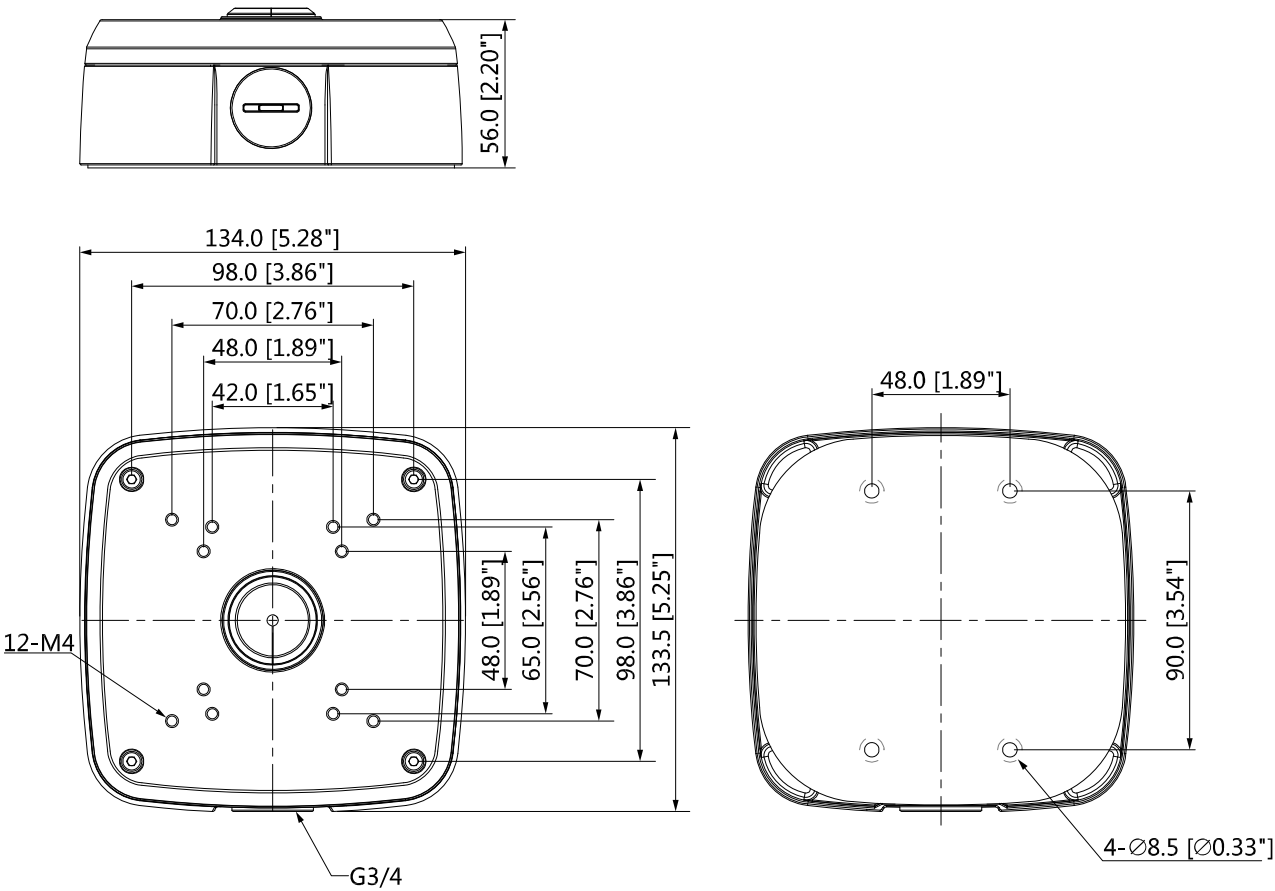
Technical Specifications

Model	DH-PFA121
General	
Material	Aluminum
Dimension (WxHxD)	134.0mmx133.5mmx56.0mm (5.28"x5.25"x2.20")
Pipe Thread	G3/4"
Weight	0.54kg(1.19lb)
Load Bearing	3.0kg(6.61lb)
Color	White
Protection	IP66
Operating Temperature	-40°C~+60°C(-40°F~+140°F)
Humidity	0~90% RH
Applicable Model	Please see "Accessory Selection"

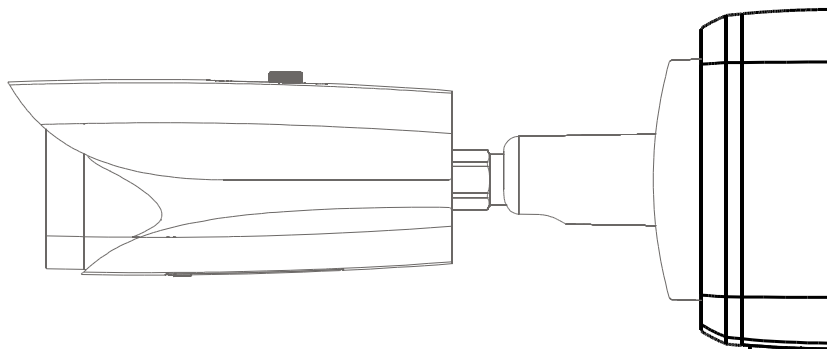
Order Information

Type	Part Number	Description
Camera Mount	DH-PFA121	Water-proof junction box
	PFA121	Water-proof junction box

Dimensions (mm/inch)



Application



Package Information

- Water-proof junction box *1
- M4x10 screw *4
- ST6 screw *4
- Plastic anchor *4
- S3.0 wrench *1



From Tyco Security Products

with
PowerG
Technology

PowerSeries Neo Hardwired Keypads with Built-In PowerG Transceiver

HS2 Series



Features That Make a Difference:

- Available in three display options: Full message 2x16 character LCD, ICON and LED
- Blue display on LCD & ICON versions
- Large, white backlit keypad buttons
- I/O for either zone or programmable output
- 5 programmable function keys
- 3 Separate panic keys
- Adjustable backlight and keypad buzzer
- Multiple door chimes per zone
- 8 Partition support
- Front and rear mount tamper
- Prox. Tag (Optional)
- With built in PowerG Transceiver (optional)
- Wire channel
- Easy-to-install mounting hinge
- Surface or single-gang box mount
- Remote firmware upgradable
- Compatible with Power Series Neo systems

The power of PowerG*:

The power behind PowerSeries Neo lies in various innovative technologies, including the revolutionary PowerG, which, bundled together, provide a robust and feature-rich platform designed to reduce operational costs for dealers and provide ultimate reliability for end users.

- Multichannel, Frequency Hopping Spread Spectrum technology - to overcome frequency blocking and interference
- Adaptive Transmission Power - for battery life preservation
- High transmission ranges - for reliable communication within up to 2km/2187 yards line-of-sight
- TDMA synchronized communication technology - to prevent message collisions
- 128 bit AES encryption - high level protection against analysis tools and digital attacks

PowerSeries Neo is Security Redefined

PowerSeries Neo by DSC redefines intrusion security by combining the flexibility of a modular, hardwired system with the simplicity of a wide range of wireless devices and peripherals, resulting in the most comprehensive hybrid system available in the market today.

This brand new and exceptionally flexible platform leverages the superior capabilities of PowerG – the industry's leading-edge wireless intrusion technology. Innovative alarm verification solutions, together with an exceptionally comprehensive remote service software suite, make PowerSeries Neo the ideal first-class solution for residential and scalable commercial installations.

PowerSeries Neo Hardwired Keypads

PowerSeries Neo keypads are a primary interface to this revolutionary hybrid system.

These slim-profile keypads come with an optional integrated PowerG transceiver to maximize wireless configuration flexibility.

PowerSeries Neo hardwired keypads achieve a clean, unobtrusive look that users welcome in any work or living space. Installers appreciate them for their ease of programming and simplified installation.

Flexibility

In keeping with PowerSeries Neo's wide spectrum of installation solutions, the PowerSeries Neo hardwired keypads are available with three display options: full message 2x16 character LCD, ICON and LED. Customisable keypad features include an input/output terminal that can be programmed to operate as a zone input, a programmable output or as a low temperature sensor. Other features include adjustable backlit keys for low-light situations and five programmable keys for simple one button activation of system functions. The door chime

panels, keypads & modules

Contact your DSC distributor
www.dsc.com | 1-888-888-7838

function allows for multiple pre-programmed chimes to identify specific zones.

The keypads' integrated temperature sensor can be programmed to activate when room temperature dips below 43° F (6° C) and restores at 47° F (8° C). Built-in logic prevents the panel from cycling in and out of alarm mode during minor temperature fluctuations, helping to reduce false alarms.

Easy To Use

PowerSeries Neo hardwired keypads feature five programmable keys for easy one-button activation of system functions. The quick exit function avoids having to disarm and rearm the system every time an occupant leaves the premises.

Prox versions of these keypads allow the user to arm or disarm the system in one easy swipe of the prox tag without needing to remember a security code.

128-zone full-message keypads support six languages, global partition status and full, 32-character programmable phrases.

Wireless Convenience

Offering identical features as their hardwired equivalents, RF versions of the keypads support up to 128 wireless zones and 32 wireless keys (on HS2128 version) without taking up a wireless zone slot.

Specifications:

Dimensions:..... (L x W x D): 168mm x 122mm x 20 mm
(6 1/16" x 4 7/16" x 13/16")

LCD Viewable Area: .99 mm x 24 mm (3 9/10" x 15/16")

Current Draw: 125 mA (Max)

HS2LCD/HS2LCDP/HS2ICN/HS2ICNP/

HS2LED 100 mA

HS2LCDRF/HS2LCDRFP/HS2ICNRF/

HS2ICNRFP 60 mA

Voltage: 12 VDC Nominal

Operating Environment: .. -10°C to 55°C (14°F to 131°F)

Relative Humidity: 5 to 93%

Ordering Information:

HS2LCD..... 128-Zone Full-Message LCD Keypad

HS2LCDP .. 128-Zone Full-Message LCD Keypad w/ Prox

HS2LCDRF9 128-Zone Full-Message LCD Keypad
w/ Transceiver

HS2LCDRFP9..... 128-Zone Full-Message LCD Keypad
w/ Transceiver and Prox

HS2ICN..... 128-Zone ICON Keypad

HS2ICNP 128-Zone ICON Keypad w/Prox

HS2ICNRF9 128-Zone ICON Keypad w/ Transceiver

HS2ICNRFP9 128-Zone ICON Keypad w/ Transceiver
and Prox

HS2LED 16-Zone LED Keypad

HS2LEDP 6-Zone LED Keypad w/ Prox

Approvals:

FCC/IC, UL/ULC, SIA CP-01 CSFM

Compatibility:

The keypads are compatible with all PowerSeries Neo control panels.

Whether it's a residential or commercial installation, the LC series of detection devices readies a security system for the unexpected by providing protection for every room, corner and corridor. The LC-100-PI effectively blends performance with competitive pricing. The detector features intelligent signal analysis for reliable detection, pet immunity up to 25 kg (55 lbs) and a slim design that complements any décor.



Product Features:

- ▶ Form 'A' alarm contact and tamper switch
- ▶ Digital signal analysis
- ▶ Slim profile design
- ▶ Features ABS plastic for shock and impact protection
- ▶ Exceptional white light immunity
- ▶ Pet immunity up to 25 kg (55 lbs)
- ▶ Quad Linear Imaging Technology for sharp analysis of body dimensions and differentiation from backgrounds and pets
- ▶ Advanced ASIC-based electronics
- ▶ Compact design for residential installations
- ▶ Adjustable variable pulse count
- ▶ PIR sensitivity adjustment
- ▶ Height installation calibration free
- ▶ Available in packages of 6 (LC-100-PI-6PK)

Reliable Protection

Advanced ASIC-based processing provides both superior detection and false alarm rejection to help keep people and possessions secure. Quad Linear Imaging Technology provides sharp analysis of body dimensions and differentiation from backgrounds and pets.

Digital Signal Processing

Effective motion detection is dependent on a sensor's ability to identify intruders and provide true false alarm resistance. The LC series of detection devices pinpoints intruders through digital signal processing. Digital information is more accurately analyzed using software and is not subject to signal degradation caused by amplification, noise, distortion or signal clipping.

Pet Immunity

Highly accurate sensors are able to provide quality detection while at the same time ignoring pets weighing up to 25 kg (55 lbs).

Fast and Easy Installation

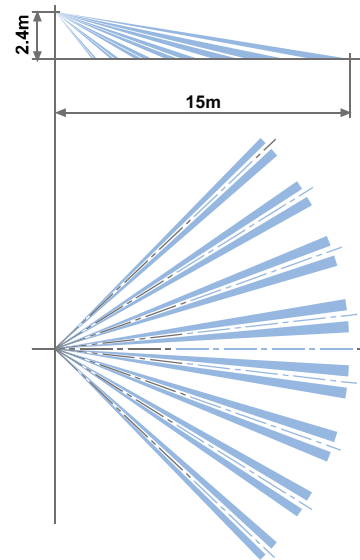
Once the detector is installed at the recommended height, installers simply conduct a brief walk-test, make any necessary adjustments, and the unit is ready to perform. Highly visible LEDs can be viewed at a glance and help the installer identify the detection range from any distance or angle within the coverage pattern.

Locating the Detector

When choosing a location for the detector, be sure to consider the following:

- Do not aim the detector at reflective surfaces
- Avoid locations that are subject to direct high air flow
- Do not locate the detector in the path of direct or reflected sunlight
- Do not place next to large obstructions that may limit the coverage area

Coverage Pattern



Detection Range Adjustment

The detection range of the motion detector is adjustable to about 3 m to 12 m (10' to 40'). A potentiometer can be adjusted clockwise or counter-clockwise to increase or decrease the range respectively. For optimum performance, range should be adjusted so that it effectively protects the dimensions of the intended area. The LC-100-PI is factory-set for 84%.

Specifications

Dimensions	92 mm x 62.5 mm x 40 mm (3.62" x 2.46" x 1.57")
Weight	58 gr (2.04 oz)
Detection Method	Quad (Four Element) PIR
Power Input	8.2 to 16 Vdc
Current Draw (Standby)	8 mA (± 5%)
Current Draw (Active)	10 mA (± 5%)
Tamper Switch: Contact Rating	0.1 Amp @ 28 Vdc
RFI Protection	30 V/m 10-1000 MHz
EMI Protection	50,000 V

Ordering Information:

LC-100-PI	Digital PIR Detector with Pet Immunity
LC-100-PI-6PK	Digital PIR Detector with Pet Immunity (Package of 6)

Outside Sirens

LADY



BENTEL
SECURITY

LADY

Self powered siren Lady is a perfect mix between an innovative design and a state of the art technology.

All the functions are managed by a microprocessor that guarantees operating precision. Lady has three inputs for the different sounds available; this feature extends the use of the siren considerably. It is possible to select a siren sound, this can be useful both for distinguish one installation from the other; or to assign different sounds to different types of alarm or places.

The flasher is managed separately by a specific input, when sound emission is not required. Compatibility with all alarm control panels is guaranteed by the programmability of the polarity of the inputs, and alarm signal polarity.

In addition to the already high standard of the Bentel Security sirens, LADY is protected against foam injection tamper; the latter is particularly effective due to the use of a dual detector.

The battery is monitored continuously by the siren microprocessor, which checks the battery level and efficiency, and signals the status on the respective terminal. If the battery is low, the flasher will be inhibited automatically, and the remaining power will be kept for sound emission.

The materials used for LADY (polycarbonate box with tropicalized metal interior) guarantee an almost unlimited resistance to the most adverse weather conditions.

FEATURES

- Strong polycarbonate box, resistant to the most adverse weather conditions
- Tropicalized-steel inner cover
- 3 inputs for alarm signalling on siren sounder and flasher
- 1 input for alarm signalling on flasher
- Standard inputs for all types of control panels
- Modulated frequency sound emission, with the possibility to assign different sounds to the alarm inputs
- High performance magnetodynamic exponential horn
- Protected against tamper, snatch, damage to the flasher and wire cutting
- Foam injection tamper device
- Programmable maximum alarm-time
- Test circuit for battery level and efficiency, with flasher cut-out on low battery
- Drill pattern for easy installation
- Complies with CEI 79-2/2nd Ed. 1993
- Power supply: internal battery 12 Vdc, 7 Ah
- Alarm current: 1.4 A (max. 2.8 A)
- Sound level: 103 dBA (3 mt.)
- Fundamental frequency: 1475 Hz
- Temperature range: -25 ÷ +55 °C
- Dimensions (wxhxd): 208x252x98 mm
- Weight (without battery): 2.5 Kg

GENERAL FEATURES

MODELS	LADY-FPI	LADY-FS	LADY-PI
Self-powered microprocessor controlled horn with strobe/flasher for outdoor applications	•	•	•
Strong weatheproof polycarbonate moulding	•	•	•
Tropicalized-steel innerplate	•	•	•
1 Audible signal inputs	•	•	
1 Audible signal inputs	•	•	
Modulated frequency sound emission with sound options	•	•	•
High output magnetodynamic exponential horn with test circuit	•	•	•
Protected against tamper, snatch, flasher bulb damage and wire cutting	•	•	•
Antifoam device	•	•	
Programmable maximum alarm time	•	•	•
Battery test circuit with flasher shutdown under low battery or trouble conditions	•	•	•
Drilling pattern for easy installation	•	•	•
Tested and approved to CEI 79-2/2nd Ed.1993; Ab2000, performance grade 2	•	•	
Battery location (12Vdc, 2Ah)	•	•	•
Flasher	•		•
Strobo		•	
External ivory white polycarbonate moulding	•	•	•



ACCESSORIES

LEDOPT

LED option board for sirens for auxiliary signal of the system's status.



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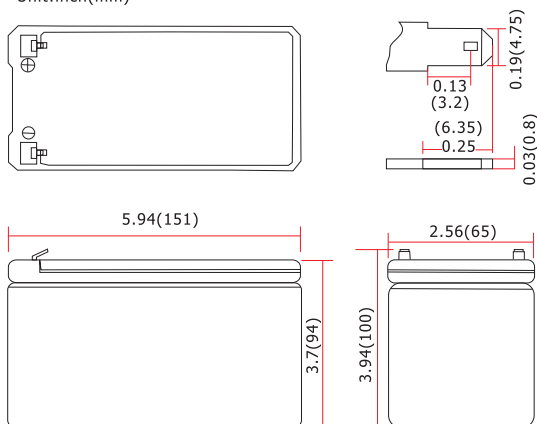
Via Gabbiano 22, Zona Industriale
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Tel. +39 0861 839060 Fax. +39 0861 839065
www.bentelsecurity.com info@bentelsecurity.com



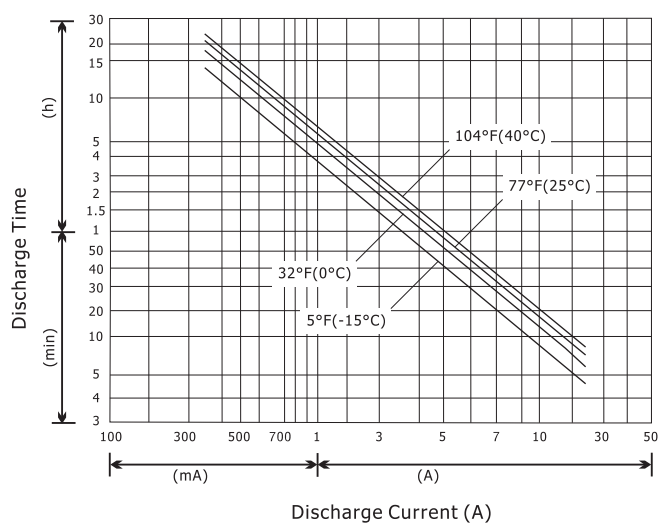
- GEL Battery
- High rate Battery
- Deep-cycle Battery
- Valve Regulated Lead-Acid Battery
- Maintenance Free Lead-Acid Battery

PL7-12

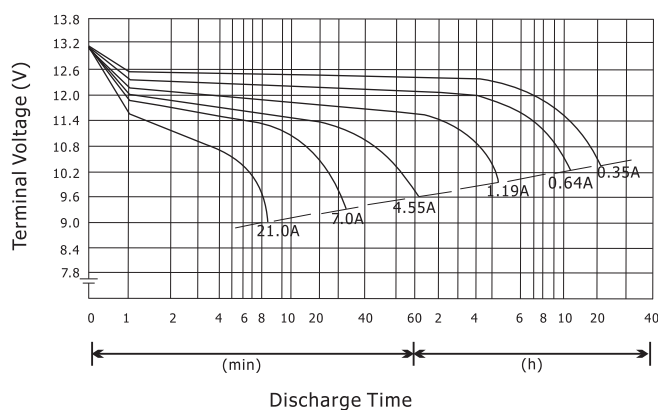
Unit:inch(mm)



Discharge Current and Discharge Duration Time



Discharge Curves 77°F(25°C)



Specification

Nominal Voltage		12V
Rated Capacity (20hr Rate)		7.0Ah
Dimensions	Length	5.94inches (151mm)
	Width	2.56inches (65mm)
	Height	3.70inches (94mm)
	Total Height	3.94inches (100mm)
Weight	Approx. 4.47lbs (2.03kg)	
■ Characteristics		
Capacity 77°F(25°C)	20hour rate (0.35A)	7.00Ah
	10hour rate (0.64A)	6.40Ah
	5hour rate (1.19A)	6.00Ah
	1hour rate (4.55A)	4.60Ah
Internal Resistance	Full Charged, 77°F(25°C)	30mΩ
Capacity Affected By Temperature (10hr Rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 9 month storage	60%
Charge (Constant Voltage)	Initial Charge Current “LESS” than 2.10A	
	Cycle	14.4–15.0V/77°F(25°C)
	Stand By	13.5–13.8V/77°F(25°C)

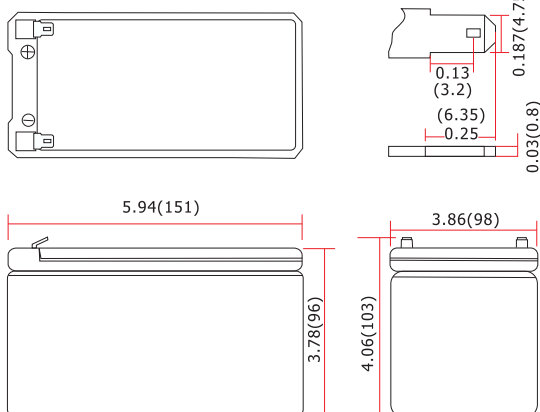
**These data are average values obtained from three Charge/Discharge cycles. Note: These are NOT minimum values.



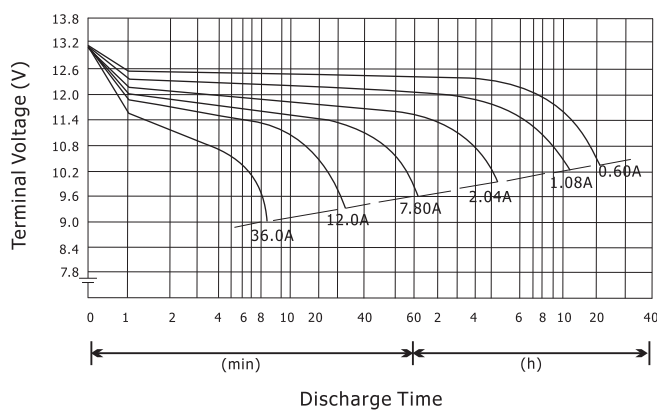
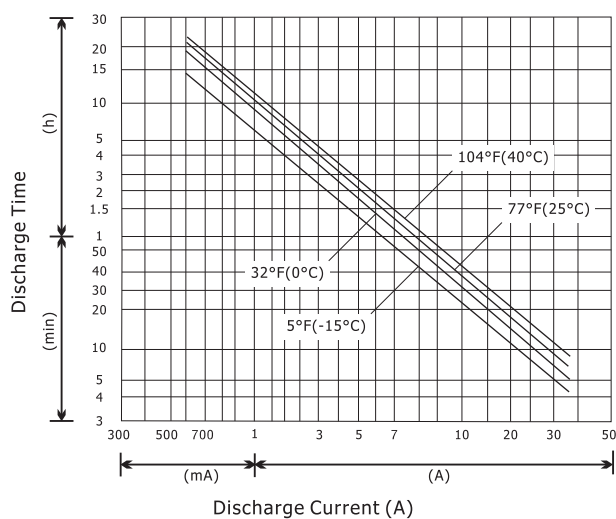
- GEL Battery
- High rate Battery
- Deep-cycle Battery
- Valve Regulated Lead-Acid Battery
- Maintenance Free Lead-Acid Battery

PL12-12

Unit:inch(mm)



Discharge Current and Discharge Duration Time



Specification

Nominal Voltage		12V
Rated Capacity (20hr Rate)		12Ah
Dimensions	Length	5.94inches (151mm)
	Width	3.86inches (98mm)
	Height	3.78inches (96mm)
	Total Height	4.06inches (103mm)
Weight	Approx. 7.58lbs (3.44kg)	
■ Characteristics		
Capacity 77°F(25°C)	20hour rate (0.60A)	12.0Ah
	10hour rate (1.08A)	10.8Ah
	5hour rate (2.04A)	10.2Ah
	1hour rate (7.80A)	7.80Ah
Internal Resistance	Full Charged, 77°F(25°C)	20mΩ
Capacity Affected By Temperature (10hr Rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 9 month storage	60%
Charge (Constant Voltage)	Initial Charge Current “LESS” than 3.60A	
	Cycle	14.4-15.0V/77°F(25°C)
	Stand By	13.5-13.8V/77°F(25°C)

**These data are average values obtained from three Charge/Discharge cycles. Note: These are NOT minimum values.

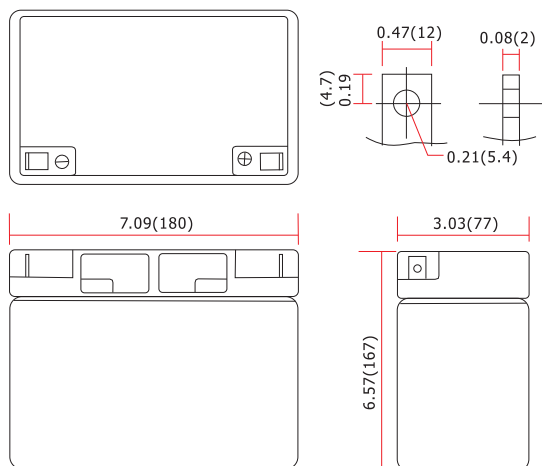


- GEL Battery
- High rate Battery
- Deep-cycle Battery
- Valve Regulated Lead-Acid Battery
- Maintenance Free Lead-Acid Battery

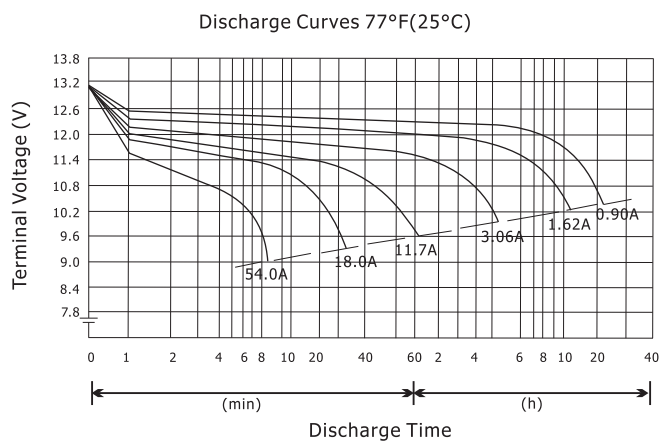
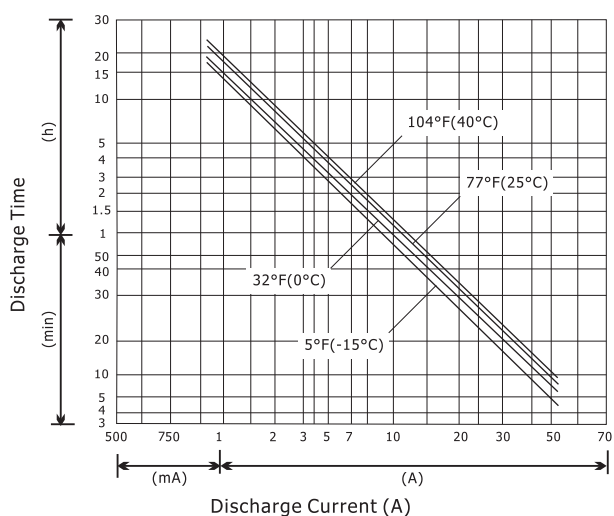
PL18-12



Unit:inch(mm)



Discharge Current and Discharge Duration Time

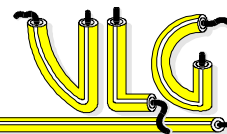


Specification

Nominal Voltage		12V
Rated Capacity (20hr Rate)		18Ah
Dimensions	Length	7.09inches (180mm)
	Width	3.03inches (77mm)
	Height	6.57inches (167mm)
	Total Height	6.57inches (167mm)
Weight	Approx. 11.46lbs (5.20kg)	
■ Characteristics		
Capacity 77°F(25°C)	20hour rate (0.90A)	18.0Ah
	10hour rate (1.62A)	16.2Ah
	5hour rate (3.06A)	15.3Ah
	1hour rate (11.7A)	11.7Ah
Internal Resistance	Full Charged, 77°F(25°C)	17mΩ
Capacity Affected By Temperature (10hr Rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 9 month storage	60%
Charge (Constant Voltage)	Initial Charge Current “LESS” than 5.40A	
	Cycle	14.4–15.0V/77°F(25°C)
	Stand By	13.5–13.8V/77°F(25°C)

**These data are average values obtained from three Charge/Discharge cycles. Note: These are NOT minimum values.

AF



Tip: cablu din cupru, cu ecranare din folie de aluminiu si poliestere in spirala.

Simbol international: AF (CEI 20-22, IEC 60332-3)

Domeniu de utilizare: la legarea aparatelor, dispozitivelor folosite in tehnica de avertizare, protectie.

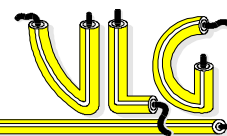
Constructia

Conductoare: multifilare din cupru; **Izolatie:** de PVC pe manunchi, cu fir de masa; **Ecranare:** folie din aluminiu si poliestere in spirala; **Mantaua:** din PVC de culoare alba, cu intarziere la propagarea flacarilor.

Temperatura mediului ambiant: pozat: de la **-30 °C** la **+70 °C**
in miscare: de la **-5 °C** la **+50 °C**.

Parametri tehnici:

Articol	Nr.de conductori x sectiune nominala	Diametru maxim exterior
	(n x mm ²)	(mm)
2 AF 22	2 x 0,22	3,30
4 AF 22	4 x 0,22	4,00
6 AF 22	6 x 0,22	4,60
8 AF 22	8 x 0,22	5,00
10 AF 22	10 x 0,22	5,60
12 AF 22	12 x 0,22	6,10
14 AF 22	14 x 0,22	6,40
16 AF 22	16 x 0,22	7,00
20 AF 22	20 x 0,22	7,50
25 AF 22	25 x 0,22	8,40
2 AF 50	2 x 0,50	4,30
4 AF 50	2 x 0,50 + 2 x 0,22	4,50
5 AF 50	2 x 0,50 + 3 x 0,22	5,10
6 AF 50	2 x 0,50 + 4 x 0,22	5,00
7 AF 50	2 x 0,50 + 5 x 0,22	5,40
8 AF 50	2 x 0,50 + 6 x 0,22	5,60
10 AF 50	2 x 0,50 + 8 x 0,22	6,20
2 AF 75	2 x 0,75	5,00
4 AF 75	2 x 0,75 + 2 x 0,22	5,00
6 AF 75	2 x 0,75 + 0,22	5,40
7 AF 75	2 x 0,75 + 5 x 0,22	5,60
8 AF 75	2 x 0,75 + 6 x 0,22	5,60
10 AF 75	2 x 0,75 + 8 x 0,22	6,40
12 AF 75	2 x 0,75 + 10 x 0,22	6,80



Caracteristici tehnice la 20°C:

Sectiune conductori	Rezistenta maxima conductori	Rezistenta minima izolare la 20°C	Tensiune de proba	Tensiune ma- xima de exercitiu	Temperatura de exercitiu
(mmp)	(ohm/km)	(Mohm x km)	(V)	(V)	(°C)
0,22	105	200	2000	150(*)	- 10 / + 80
0,50	39	200	2000	150(*)	- 10 / + 80
0,75	26	200	2000	150(*)	- 10 / + 80

(*) Nu se va folosi ca putere.