EN /
2020

CCTV
ADVANCE

PROFESSIONAL RANGE

‹‹Comelit®
Passion. Technology. Design.

CCTV
ADVANCE

PROFESSIONAL RANGE

Contents

ITALY

FRANCE

SPAIN

IRELAND

BELGIUM

NETHERLANDS

GREAT BRITAIN

IRELAND

GREECE

UNITED ARAB EMIRATES

RUSSIA

HONG KONG

REPUBLIC OF SINGAPORE

AUSTRALIA

COLOMBIA

UNITED STATES OF AMERICA

Comelit
is an international group
specialising in
professional and
integrated security
systems.

Comelit has been constantly looking to the future since 1956. Innovation through continuous investment in manpower and technology finds an outlet in the design of new solutions dedicated to improving the quality of everyday life by maximising simplicity and functionality.

Building a better, safer and more sustainable world is our main mission.

Our history is based on consolidated traditional values, constructed around the core values of personal development and respect for the environment. Anyone who works with us knows this.

Some time ago we implemented a complete programme for our employees, which moves from upholding safety to continuous training and the promotion of active welfare policies.

Our strong connection to the local area translates into various initiatives benefiting the local community.

Adherence to the strictest environmental protocols is proven by the adoption of an ISO 14001 certified system and a QHSE policy. A photovoltaic system provides us with the energy we use for our operations and we are involved with programmes aimed at reducing waste.

Comelit Experience: at your side to help you tackle the challenge of change.

The professionalism and skill of the people who - like you - sell or install our solutions has always been the focus of our service. This is why we make every effort to stay close to you every day as you work.

Our aim is to give you a first-hand experience of the "Comelit Experience": through update sessions at our premises, or visits to stores and sites.

We offer out partners precise technical assistance, as well as information and services. We respect the work our trusted distributors do, choosing not to go down the route of online sales and guaranteeing constant product availability.

Through the new MyComelit Pro service platform, we would like to offer targeted and valuable communication for every single user.

The advantages of being a Comelit installer.

02

01

ONE POINT OF CONTACT FOR INTEGRATED AND PROFESSIONAL SYSTEMS.

Knowing you can count on the know-how and skill of an Italian company capable of meeting all your requirements is certainly a significant advantage. In fact, we at Comelit can give you advice and offer you the best and most versatile solutions. An extremely wide range of highly integrated options to tackle all the needs of the residential, commercial and industrial markets. Having a single representative means being able to count on one contact for all the problems you may need to tackle in your work, providing assistance and guiding you when choosing the product or system that best suits your requirements.

MYCOMELIT PRO: THE CONSTANT AND FRUITFUL DIGITAL DIALOGUE BETWEEN YOU AND THE PRODUCTS INSTALLED.

Entering the world of Comelit also means having a completely new and stimulating experience. Not just products and solutions, but a whole company at your service. With the MyComelit Pro website, every installer is constantly informed of the new products most relevant to them, and can access manuals, technical and installation sheets as well as video tutorials to easily find solutions to meet your needs.

03

COMELIT TECHNICAL ASSISTANCE FOR DESIGN ADVICE AND ON-SITE SUPPORT.

Through the Comelit technical assistance service, we provide a valuable aid in your work: a fast response to queries and requests for information, on-site assistance and design advice.
Our projects office is on hand to fully support you on a technical level, using software to create a 3D representation of the structure if necessary, and guide you when it comes to regulations, enhancing and supplementing the products on offer.

ON-SITE TECHNICAL SUPPORT

DRAWING UP PROJECT DRAFTS

TECHNICAL-REGULATORY COMPARISON

DRAFTING SPECIFICATIONS AND CALCULATING NUMERICAL VALUES

SUPPORT DURING IMPLEMENTATION

HELP LINE

Professional telephone assistance to resolve all types of problem.

ASSISTED PROGRAMMING

Support for installers and assistance in resolving all types of problem. Specialist professionals with unrivalled knowledge of the Comelit products distributed in the various areas of the country.

COMELIT ENGINEERING

An operative division entirely dedicated to providing customers with ideal solutions for non-standard system requirements. This division develops turnkey projects, primarily for large residential, business and industrial complexes.

04

PROFESSIONAL THEORY AND PRACTICE UPDATE COURSES.

Training and keeping up to date is essential. In fact, at the Training Center, Comelit organises intensive theory and practical courses on its new systems, allowing you to try them out with dedicated personnel.

A leader in the international professional video surveillance market for 40 years.

The video surveillance market is constantly growing, with demand increasing from different segments: from residential and small commercial concerns to large-scale industry and public monitoring. In line with this development trend, we at Comelit are committed to a constant and tireless quest for quality and reliability when it come to our products, guaranteeing increasingly thorough and precise protection capable of preventing the phenomenon of small criminal acts and vandalism - unfortunately on the rise - before we even make it to the events linked to terrorism.

1980
First Vidicon single-card cameras produced

1986
First Italian company to produce CCD cameras

1990
First multiplexers and analogue DVRs

2000
First digital DVRs

2003
First network DVRs with RAS management software

2005

First IP CCTV system introduced

2012

Video analysis and 700 Series introduced

2017

IP100 Series

2020

ADVANCE Series

From the choice of materials to production technologies: Comelit quality is under control.

The quality of a product is the result of a process that is organised at every stage and subject to the most thorough procedures and in-depth tests. This pearl of wisdom has resulted in our decision to invest constantly in the most advanced production technologies and the most sophisticated testing equipment.

We operate according to strict quality parameters which are constantly monitored. In production we use high-quality components and raw materials: from the scratch-resistant, anti-glare glass to the furnace-painted die-cast aluminium body.

Our in-house laboratory carries out quality tests on product durability in climatic chambers with extreme temperatures, as well as functional tests and end-of-cycle checks before shipping. Further checks are carried out by certified external laboratories. Our products are subjected to over 1,000 approval tests, at hardware and software level.
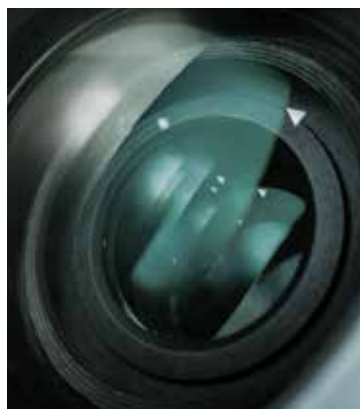
Electromagnetic compatibility tests

Emissions
- Conducted
- Radiated

Immunity
- ESD
- Burst
- Surge
- Conducted

Environmental tests

Waterproof (IP rating)

Vandalproof (IK rating)

Saline Mist (NSS)

Thermal cycles in climatic chamber
- High-temperature operating tests
- Low-temperature operating tests
- Thermal shock operating tests

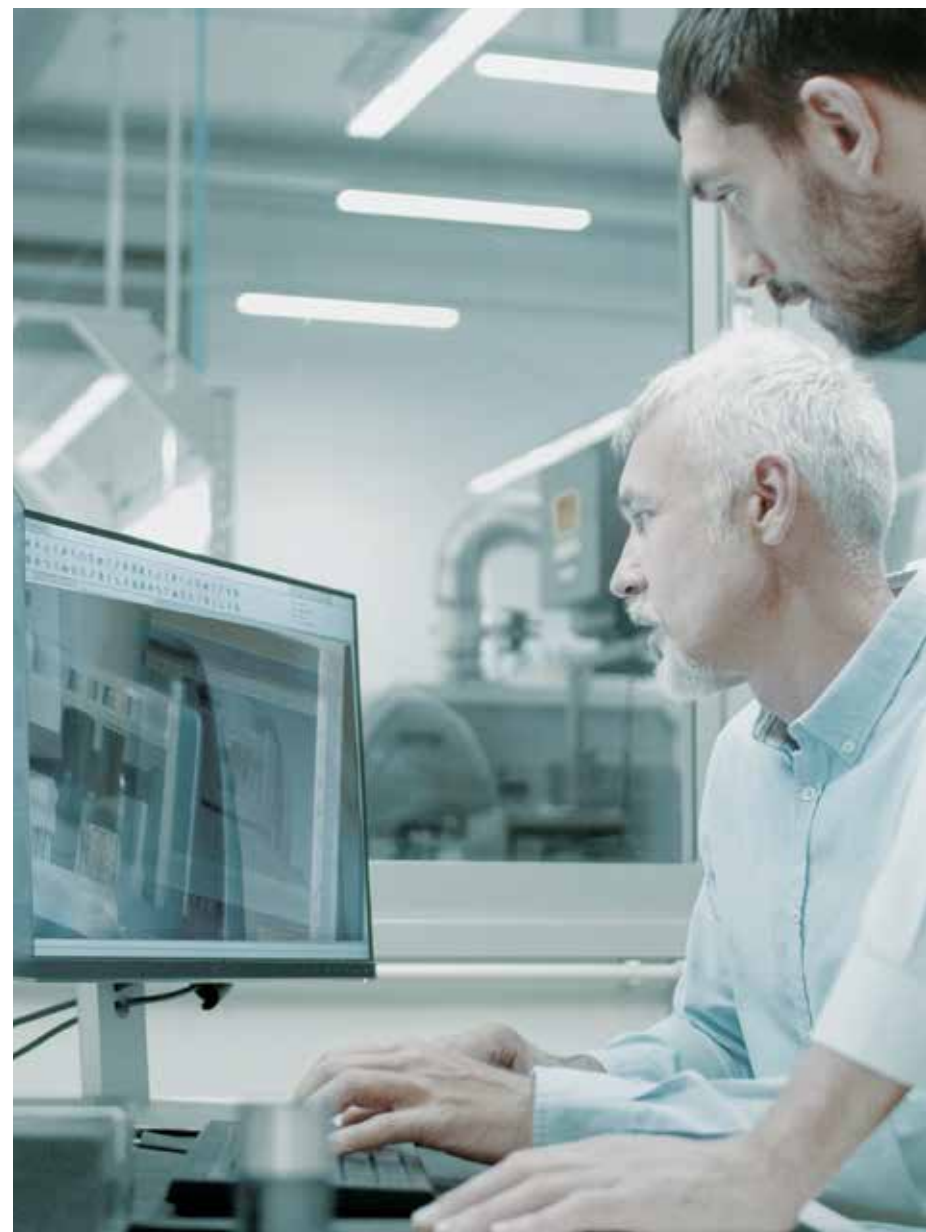**Cycles with high humidity in climatic chamber**

Sunlight

Mechanical tests

Vibration

Dropped package

Scratch resistance

Labelling durability

Comelit solutions protecting data and keeping it secure.

GDPR

For Comelit, the privacy of our customers is a primary concern. For this reason, we implemented a management system for our customers' data much earlier than 2016, when the GDPR legislation came into effect, to guarantee optimum security.

We have adapted the privacy information on the various devices (available on the website www.comelit-group.com). We have placed our servers, on which the information is archived and memorised, in EC countries. We have minimised the acquisition of personal data as much as possible and clarified the use of this data, aimed at device functionality and the constant improvement of the services offered. Finally, we have always committed NOT to pass this data on to third parties.

- Detailed privacy information for the user
- Compulsory password entry request
- Advanced protection against password generators
- Compulsory password change
- Password security indicator
- Encrypted password recovery mechanism
- Level-based user authority management
- Automatic logout
- Secure HTTPS protocol
- 802.X security protocol
- Telnet port closure
- Cloud P2P cloud service with secure connection
- Online upgrade via dedicated Cloud
- White /Black List for remote connection
- Encrypted configuration files
- Event log register up to 6 months
- Recording duration configuration for every single channel
- Data encryption on HDD
- Backup video encryption
- Protected RS-232 connection
- Option of disabling live video when disconnected

Comelit for every application.

CAMPUSES

SMART CITIES

HOSPITALS

RETAIL

INDUSTRIES

LOGISTICS

BANKS

Application examples.

Smart Cities

EVERY CORNER OF THE CITY UNDER CONTROL:
FROM VIDEO ANALYSIS TO AUTO TRACKING,
FACE RECOGNITION AND PLATE READING IN
HIGH RESOLUTION, AND THE OPTIMISATION OF
TRANSMISSIONS AND STORAGE THANKS TO THE
LOW BITRATE.

With the aim of offering a complete and evolved prevention and monitoring response for the management of public safety within the city, we launched a customised and complete solution for integration with our video surveillance products. The solution uses e-maps to manage all the monitoring sites and employs advanced artificial intelligence technologies based on people and vehicles.
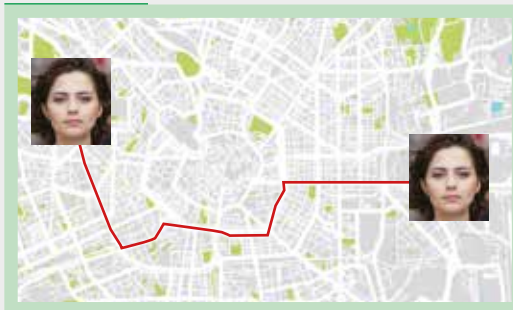
E-MAP

The E-map module is used to display all installed video surveillance systems - such as NVRs, cameras and alarms - on several levels. In the event of an alarm, E-map instantly displays a preview of the video and the information relating to the alarm. The system also supports online maps (Google Maps).

Human face Tracking

This function allows the cameras located on an online map to detect a human face and, in dynamic mode, shows its movement within the map.

180° panoramic images

Multisensor cameras can be used to capture high-definition 180° images in any atmospheric conditions. Ideal for parks and public squares, they allow video surveillance of a large area using just one camera.

Data and statistics

All information relating to the flow of vehicles and people in the city is displayed and analysed. If plate reading and face recognition cameras are installed, it is possible to view graphics and complete statistics, and perform detailed searches for events.

DVA Deep video analysis

Comelit IP cameras have a powerful capacity for intelligent video analysis. They are, in fact, capable of identifying and recognising vehicles, plate numbers and human features.

Easy operation and maintenance

The simple and intuitive graphic interface, which features a dashboard with pie charts, can be used to view the online status of the connected devices and proceed with system maintenance.

Application examples.

Retail

THE INNOVATIVE SOLUTION FOR THE SECURITY AND ANALYSIS OF STATISTICAL DATA: HIGH RESOLUTION AND FISHEYE CAMERAS FOR 360° VIEWING OF SPACES, PREVENTION AND CUSTOMISED VIP SERVICE VIA THE FACE RECOGNITION FUNCTION, VIDEO ANALYSIS AND 24H REMOTE ONLINE SURVEILLANCE.

Our Retail solution combines face recognition with the intelligent video analysis data algorithm to explore the potential value of goods and identify high-value groups of consumers, offering extremely useful tools to improve the quality of the service and increase sales.

Fisheye cameras

Fisheye cameras offer a 360° view of the entire shop. Plus, different view layouts allow you to have a customised frame for sensitive areas of the shop.

Heat Map

Heat maps record the movement of customers in a specific period. They highlight the areas with the greatest density of customers using a colour scale, thereby offering useful data for identifying where goods should be displayed within the shop.

Statistics regarding the flow of customers

Comelit IP cameras, with powerful video analysis algorithms, offer flexible installation and accurate counting of people or vehicles, thereby providing statistics and detailed data on the flow of customers, which are instrumental in determining company actions and decisions.

Face recognition
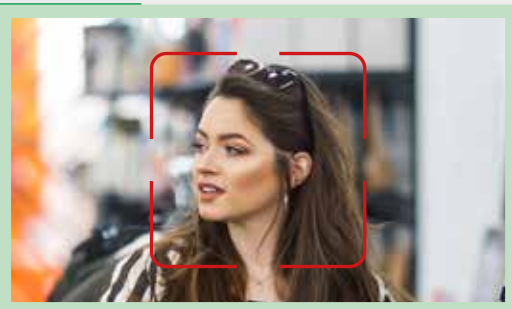
The cameras with a face recognition system make it possible to create activation rules and customised notifications for monitoring employees, to identify faces in a Black list or to automatically greet VIPs.

Integration of POS devices

Transaction information can be overlapped in the preview for live video and recorded video from the corresponding camera. The information recorded during transactions can be used to track down and check any errors.

Easy operation and maintenance

The shop manager or security manager can view the cameras in real time and play back the videos recorded directly on their smartphone, thanks to the Comelit Advance App. A push notification is sent immediately after an alarm.

Application examples.

Industrial Parks

KEEPING COMPANY ASSETS SAFE AND SECURE: ACCESS CONTROL GUARANTEED BY FACE RECOGNITION AND THE PLATE READING SYSTEMS, PERIMETER PROTECTION THROUGH VIDEO ANALYSIS, 24H SURVEILLANCE OF EVERY DETAIL PROVIDED BY THE HIGH RESOLUTION.

An industrial environment always has a large flow of people and vehicles coming in and going out. In this situation it is important to adopt video surveillance solutions that effectively keep people and property safe. In view of this, we have developed a complete solution with the ADVANCE VMS software platform, which integrates NVRs, DVRs and IP cameras. Functions such as parking management, face access control and intelligent perimeter protection create a reliable and intelligent video surveillance system.

Parking Management

Parking management allows plate recognition, vehicle counting, validity management, etc. This function allows authorised vehicles to pass the access point without having to stop; the number of spaces available will be updated automatically.

Real-time Alarm

Following face detection, different actions can be linked, such as: output activation, audio or pop-up triggering with a personalised message, sending of a push notification on the App, an email, a recording.

Intelligent Perimeter Protection
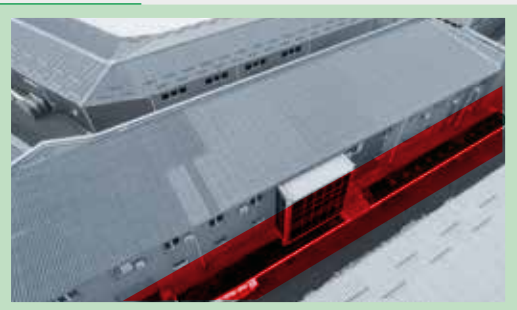
The DVA (Deep video analysis) algorithm allows the camera to accurately recognise people, vehicles and objects: false alarms generated by animals, rain, branches, etc. will be drastically reduced.

Face Access Control

This solution allows access control and management in large office buildings and industrial settings. The system uses face recognition to grant or deny access to a point of entry.
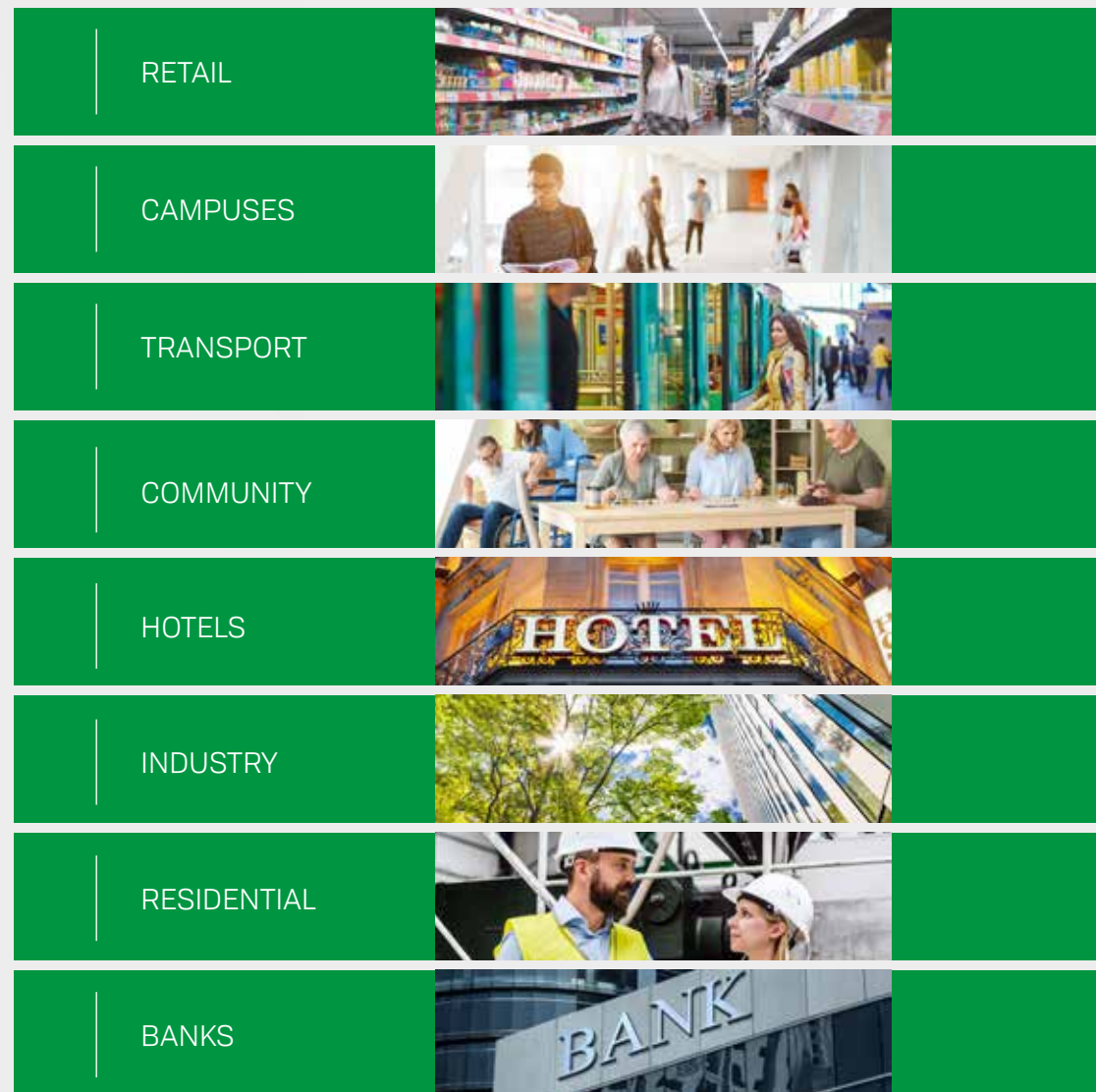
Main advantages.

DVA
Deep Video Analysis

The new algorithms based on DVA (Deep Video Analysis) improve performance in terms of detecting and identifying people and vehicles, providing increasingly accurate and reliable information. This allows quick and effective searching of the stored data.

Going beyond simple video surveillance: this is the meaning of Deep Video Analysis, which allows intelligent processing of the information so as to improve the analysis and response abilities of video surveillance systems.

To achieve this result, at Comelit we have adopted Deep Learning elements that optimise the intelligence of an entire range of cameras and recording equipment, always offering new functions and cutting-edge applications.

Recognising people, motor vehicles and non-motorised vehicles through the video structure and incorporating functions such as line crossing and area intrusion makes it easier to filter false alarms triggered by small animals and environmental factors, and rapidly improves crime surveillance efficiency. The vehicle counting function can obtain reliable data, providing a good point of reference for company decisions.

TYPICAL APPLICATIONS

RETAIL

CAMPUSES

TRANSPORT

COMMUNITY

HOTELS

INDUSTRY

RESIDENTIAL

BANKS

MAIN ADVANTAGES | **DVA - Deep Video Analisys**

Object removed/abandoned

An alarm is generated whenever an object is removed or abandoned within a programmed area.

Region entrance detection (human/vehicle classification)

Entry

An alarm is generated if an entry point within an area is crossed. It is also possible to identify whether it is a person or a vehicle entering the programmed area, creating custom alarm activation rules.

Region exiting detection (human/vehicle classification)

Exit

An alarm is generated if an exit point within an area is crossed. It is also possible to identify whether it is a person or a vehicle exiting the programmed area, creating custom alarm activation rules.

### Region intrusion detection (human/vehicle classification)

An alarm is generated if there is an intrusion within an area. It is also possible to identify whether it is a person or a vehicle entering the programmed area, creating custom alarm activation rules.

Line crossing detection (human/vehicle classification)

An alarm is generated if one or more configured lines are crossed. It is possible to identify whether it is a person or a vehicle crossing the programmed line, creating custom alarm activation rules.

Camera tampering
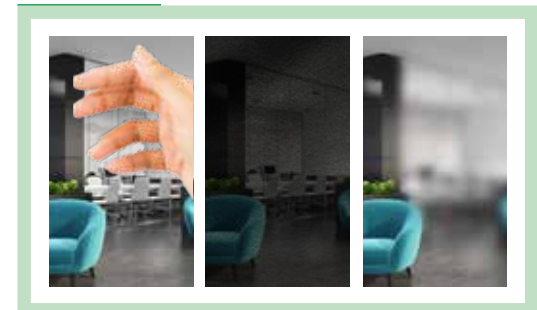
3 situations can be detected and alarmed: forced movement of the camera; camera masking or covering; lens tampering which is causing blurry images.
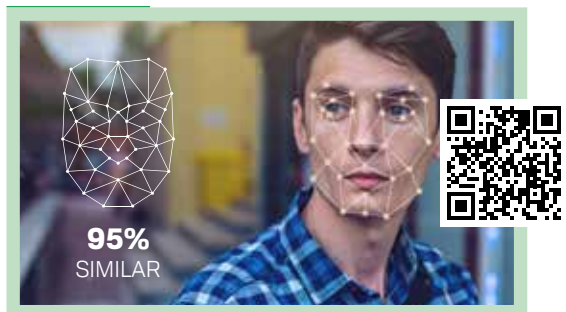
Face detection

Detects and captures people's faces, for quick and easy searching of the event video recording associated with the face.

Face recognition

95% SIMILAR

Detects a face and registers its features. Set a similarity level; the system will compare the detected face with those stored in a database.

Crowd density detection

Generates an alarm whenever the configured threshold for the number of people within an area is exceeded.

Heat map

Uses a colour scale to show where the greatest density of people/customers is located.

Human/vehicle classification

Offers reliable identification of the target and allows identification of people, vehicles, bikes and motorcycles, eliminating false alarms generated by atmospheric events, animals or moving objects.

Human/Vehicle counting

Entry 50
Exit 20

Allows counting of people and vehicles both entering and exiting a configured area.

Main advantages.

Face Recognition

This function, as well as detecting faces, can recognise them by comparing the images already in the database; it can also be used to save images and search for faces.

Our face recognition system is specifically designed for application in any setup: from more complex and articulated systems (e.g. banks, supermarkets, schools, stations) to small and medium-sized businesses.

Compared to other systems with similar functions, Comelit face recognition has a simple and economical layout, based on the "IP camera+NVR" structure. The system, as well as detecting faces, recognises them by comparing the images already in the database; it also saves images and searches for faces.

Simple structure and limited budget

The simple structure with "Face detection via IPC + Face recognition via NVR" simplifies surveillance implementation at low cost.

Excellent performance

Side face recognition: cameras are capable of detecting a face turned to the left/right by up to 30° or tilted upwards/downwards by 20°
Face Detecting: max.10 faces at once.
Face recognition: 3 ~ 4 faces / sec
Database: 10,000 faces

Ultra Starlight

Recognition with colour images 24 hours a day.

Face recognition on any channel

Comelit NVRs can use face recognition on any channel to which a camera with the face detection function is connected. Plus, all channels with this function enabled can run at the same time.

Simple and intuitive graphic interface

Easy to use and highly efficient, this has various functions such as: face track, real-time alarm, face database management, face information, statistics, etc.

TYPICAL APPLICATIONS

SECURITY

HANDS-FREE ACCESS

SMART SHOP (VIP CUSTOMERS)

REAL TIME WELCOME AND CHECK (HOTELS AND CHECK-IN)
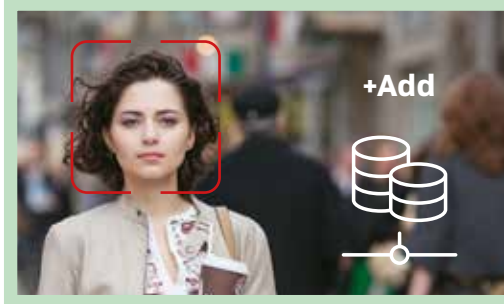
ACCESS MANAGEMENT

Face Detection / Capture

Detects the faces in every video. Identifies the face, acquires it and follows it within the image (Tracking).

Face Registration

A face can be registered in the database in various ways: locally, by importing the face from a USB drive, via the Comelit Advance App, or via web page. It is also possible to create groups, lists and white/black lists.

Human face Tracking
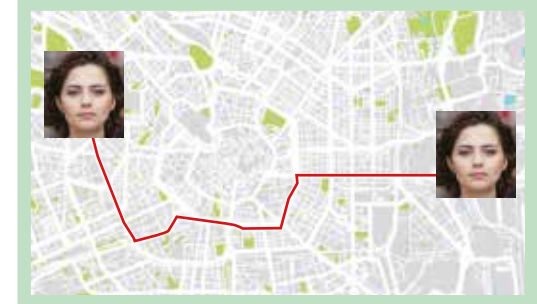
The cameras arranged on an online map detect the face and dynamically show the person's movements within the map.

Face Recognition

The algorithm and built-in SOC chip ensure that all facial features are captured, saved and compared with a database. It also allows face recognition in real time, even on several channels at once.

Search by image

Allows simple and quick searching of events and videos associated with one or more faces.

Real-time Alarm

Following face detection, different actions can be linked, such as: output activation, audio or pop-up triggering with a personalised message, sending of a push notification on the App, an email, a recording.

Face Database Management

The user has complete control of database management, the creation of white/black lists and the addition/updating/removal of one or more faces.

Access control via Face Recognition
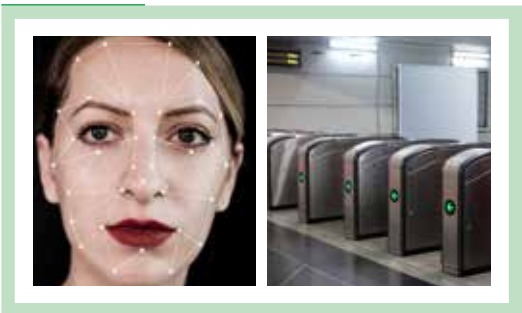
Face recognition can be used to activate an output for opening access points and doors, just like a real access control system. It is also possible to define groups and link them to a weekly planner.

IP Cameras

NVRs

XVRs (5 in 1)

Storage System

AdvanceVMS

Matrix Video Wall System

SW Client

Accessories

Monitor, Switch, WI-FI Transmission

Comelit®

ADVANCE Series

IP Cameras
ADVANCE Series

MAIN FUNCTIONS

DVA Deep video analysis

The cameras support the most complex artificial intelligence algorithms: line crossing, entering/exiting an area, object removed and abandoned, people counting, face detection, crowd detection, etc.

IP67

The cameras offer IP67 certification.

IK10

The outdoor IP cameras adhere to IK10 vandalproof standards.

-30°C~60°C

Most IP cameras also operate in extreme temperature conditions (-30°C /+60°C).

Microphone

Some IP cameras have a built-in microphone, for easier audio management.

ONVIF

ONVIF version support, profile S and profile G.

2-8MP

2 MP to 8 MP (4K) resolution.

Fisheye

6 MP Fisheye camera with different display layouts, supported by both NVRs and by Advance VMS Software.

TVS 6000V

The IP cameras are equipped with 6,000V protection against lightning and 2,000V overload protection.

ZOOM

PTZ IP cameras reach an optical zoom up to 30X.

3 Streams

All IP cameras in the Advance series support 3 streams.

Alarm Inputs and Outputs

Many models have alarm inputs and outputs.

H.265+

H265+ integrates different functions: scene recognition, a smart noise reduction algorithm and bit rate control based on macroblocks. In the majority of scenes the bit rate can be reduced by 40% (compared with the H.264 and H.265 standards). Compatible with third-party NVRs and VMS.

Ultra Starlight

The ½" sensor increases sensitivity to light by 5 times in relation to classic cameras; it provides sharp images with a high contrast even in low lighting conditions.

MAIN FUNCTIONS

True WDR

Self-adapting ultra wide dynamic range technology, with a dynamic range up to 120 dB.
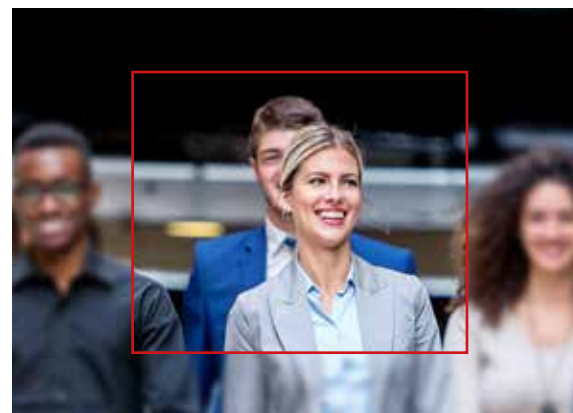

Smart IR

Dynamic management of IR lighting intensity to prevent overexposure of essential details (e.g. people's faces at night).

ROI (Region Of Interest)

Ensures image quality and detail in several zones within the scene, optimising the overall bandwidth of the video stream.

NVRS XVRS

ADVANCE VMS SOFTWARE

PLATFORM PRODUCT

COMELIT ADVANCE APP

MONITORS

SWITCHES

WI-FI TRANSMISSION

Recording to SD Memory

Supports recording to SD card (max. 128 GB) on event and according to planned times.

HFR (High frame rate)

Cameras with 4 MP resolution support the HFR function (2M@60fps), ideal for critical applications where sharp still images are essential (transport, casinos, cash processing rooms, etc.).

Differentiated Motion

Various motion sensitivity levels can be set in different areas: e.g. higher in the most important area and lower in others, where animals, wind, etc. may disturb the scene.

Day and Night

Automatic mode manages day and night transition in complex situations and can be used to schedule time-based switching.

Min.~Max. Shutter

The shutter can be adjusted automatically or manually, for improved performance in the scenario in use.

SNMP

XVRs, NVRs and IP cameras support SNMP standards V1.0, 2.0 and 3.0, ideal for the network management of networking devices.

HLC/BLC/HDR

Various backlighting compensations are available, for increased flexibility.

802.1X

Authentication mechanism for the installation of networking devices on the LAN.

HTTPS

HTTPS is the secure and encrypted version of HTTP protocol, which is used to transmit data between the computer and the web browser for the camera.

IP cameras | ADVANCE Series

IP 2MP

	ULTRA STARLIGHT	ULTRA STARLIGHT	ULTRA STARLIGHT
	IPTCAMA02FA	**IPTCAMA02ZA**	**IPKCAMA02ZA**
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	1920 x 1080 (2MP)	1920 x 1080 (2MP)	1920 x 1080 (2MP)
Lens	2.8 mm, Fixed lens	2.8~12 mm, Motorised lens with autofocus	2.8~12 mm, Motorised lens with autofocus
Min. Lighting	0.005 lux@F1.6, AGC ON; 0 lux with IR 0.0028 lux@F1.2, AGC ON; 0 lux with IR	0.005 lux@F1.6,AGC ON; 0 lux with IR 0.0028 lux@F1.2,AGC ON; 0 lux with IR	0.005 lux@F1.6, AGC ON; 0 lux with IR 0.0028 lux@F1.2, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed
IR	1 led array / 30m (Smart IR)	2 LED arrays / 50 m (Smart IR)	3 LED arrays / 50 m (Smart IR)
WDR	120 dB	120 dB	120 dB
Starlight	Ultra Starlight	Ultra Starlight	Ultra Starlight
White balancing	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
Video Compression	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG
Frame rate	Main Stream: 60Hz: 1080P / 720P(1 ~ 30fps); 50Hz: 1080P/ 720P (1 ~ 25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/ D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50HZ: D1/CIF/480x240 (1~25fps)	Main Stream: 60Hz: 1080P / 720P(1 ~ 30fps); 50Hz : 1080P/ 720P (1 ~ 25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/ D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50HZ: D1/CIF/480x240 (1~25fps)	Main Stream: 60Hz: 1080P / 720P(1 ~ 30fps); 50Hz : 1080P/ 720P (1 ~ 25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/ D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50HZ: D1/CIF/480x240 (1~25fps)
Multi Streaming	3 Streams	3 Streams	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction
DVA Video Analysis*	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map
ROI	8 areas	8 areas	8 areas
Privacy zones	4	4	4
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	/	/	1 input - 1 output
Audio Inputs/Outputs	1CH audio input; Built-in microphone x 1	1CH audio input; Built-in microphone x 1	1CH audio input; Built-in microphone x 1 audio. 1 audio output
IP rating	IP67	IP67	IP67
IK rating	IK10	IK10	IK10
Power supply	12 Vdc (<7.5W)	12 Vdc (<10.5W)	12 Vdc (<10.5W)
POE power supply	Standard IEEE802.3af	Standard IEEE802.3af	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH
Dimensions (mm)	94.6 x 94.6 x 82.8	111.5 x 111.5 x 99.6	141 x 141 x 100.2

* Available with firmware 5.1.0

	ULTRA STARLIGHT **IPBCAMA02FA**	**ULTRA STARLIGHT** **IPBCAMA02ZA**	**ULTRA STARLIGHT** **IPBCAMA02Z01A**
Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	1920 x 1080 (2MP)	1920 x 1080 (2MP)	1920 x 1080 (2MP)
Lens	2.8 mm, Fixed lens	2.8~12 mm, Motorised lens with autofocus	2.8~12 mm, Motorised lens with autofocus
Min. Lighting	0.005 lux@F1.6, AGC ON; 0 lux with IR 0.0028 lux@F1.2, AGC ON; 0 lux with IR	0.005 lux@F1.6,AGC ON; 0 lux with IR 0.0028 lux@F1.2,AGC ON; 0 lux with IR	0.005 lux@F1.6, AGC ON; 0 lux with IR 0.0028 lux@F1.2, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed
IR	2 led array / 50m (Smart IR)	2 LED arrays / 50 m (Smart IR)	4 LED arrays / 70m (Smart IR)
WDR	120 dB	120 dB	120 dB
Starlight	Ultra Starlight	Ultra Starlight	Ultra Starlight
White balancing	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
Video Compression	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG
Frame rate	Main Stream: 60Hz: 1080P / 720P(1 ~ 30fps); 50Hz : 1080P/ 720P (1 ~ 25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/ D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50HZ: D1/CIF/480x240 (1~25fps)	Main Stream: 60Hz: 1080P / 720P(1 ~ 30fps); 50Hz : 1080P/ 720P (1 ~ 25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/ D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50HZ: D1/CIF/480x240 (1~25fps)	Main Stream: 60Hz: 1080P / 720P(1 ~ 30fps); 50Hz : 1080P/ 720P (1 ~ 25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/ D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50HZ: D1/CIF/480x240 (1~25fps)
Multi Streaming	3 Streams	3 Streams	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction
DVA Video Analysis*	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map
ROI	8 areas	8 areas	8 areas
Privacy zones	4	4	4
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	/	/	1 input - 1 output
Audio Inputs/Outputs	1CH audio input	1CH audio input	1CH audio input; 1 audio output
IP rating	IP67	IP67	IP67
IK rating	IK10	IK10	IK10
Power supply	12 Vdc (<9.5W)	12 Vdc (<9.5W)	12 Vdc (<12W)
POE power supply	Standard IEEE802.3af	Standard IEEE802.3af	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH
Dimensions (mm)	217.7 x 80.5 x 80.5	217.7 x 80.5 x 80.5	141 x 141 x 100.2

* Available with firmware 5.1.0

IP cameras | ADVANCE Series

IP 4MP | High Frame Rate

	ULTRA STARLIGHT	ULTRA STARLIGHT	ULTRA STARLIGHT
	IPTCAMA04FA	**IPTCAMA04ZA**	**IPKCAMA04ZA**
Sensor	1 / 3" CMOS	1 / 3" CMOS	1 / 3" CMOS
Resolution	2592 × 1520 (4MP)	2592 × 1520 (4MP)	2592 × 1520 (4MP)
Lens	2.8 mm, Fixed lens	2.8~12 mm, Motorised lens with autofocus	2.8~12 mm, Motorised lens with autofocus
Min. Lighting	0.005 lux@F1.6,AGC ON; 0 lux with IR 0.0028 lux@F1.2,AGC ON; 0 lux with IR	0.005 lux@F1.4, AGC ON; 0 lux with IR 0.0028 lux@F1.2, AGC ON; 0 lux with IR	0.005 lux@F1.4, AGC ON; 0 lux with IR 0.0028 lux@F1.2, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed
IR	1 led array / 30m (Smart IR)	2 LED arrays / 50 m (Smart IR)	3 LED arrays / 50 m (Smart IR)
WDR	120 dB	120 dB	120 dB
Starlight	Ultra Starlight	Ultra Starlight	Ultra Starlight
White balancing	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
Video Compression	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG
Frame rate	Main Stream: 4MP/2K/3MP/1080P / 720P (60Hz:1 ~ 30fps; 50Hz: 1~25fps) HFR mode: 1080P / 720P (60Hz: 1 ~ 60fps; 50Hz: 1~50fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 30fps; 50Hz: 1~25fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps)	Main Stream: 4MP/2K/3MP/1080P / 720P (60Hz:1 ~ 30fps; 50Hz: 1~25fps) HFR mode: 1080P / 720P (60Hz: 1 ~ 60fps; 50Hz: 1~50fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 30fps; 50Hz: 1~25fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps)	Main Stream: 4MP/2K/3MP/1080P / 720P (60Hz:1 ~ 30fps; 50Hz: 1~25fps) HFR mode: 1080P / 720P (60Hz: 1 ~ 60fps; 50Hz: 1~50fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 30fps; 50Hz: 1~25fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps)
Multi Streaming	3 Streams	3 Streams	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction
DVA Video Analysis*	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map
ROI	8 areas	8 areas	8 areas
Privacy zones	4	4	4
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	/	/	1 input - 1 output
Audio Inputs/Outputs	1CH audio input; Built-in microphone x 1	1CH audio input; Built-in microphone x 1	1CH audio input; Built-in microphone x 1 audio. 1 audio output
IP rating	IP67	IP67	IP67
IK rating	IK10	IK10	IK10
Power supply	12 Vdc (<7.5W)	12 Vdc (<9.5W)	12 Vdc (<8W)
POE power supply	Standard IEEE802.3af	Standard IEEE802.3af	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH
Dimensions (mm)	94.6 x 94.6 x 82.8	111.5 x 111.5 x 99.6	141 x 141 x 100.2

* Available with firmware 5.1.0

NVRS XVRS

ADVANCE VMS SOFTWARE

PLATFORM PRODUCT

COMELIT ADVANCE APP

MONITORS

SWITCHES

WI-FI TRANSMISSION

	ULTRA STARLIGHT	ULTRA STARLIGHT	ULTRA STARLIGHT
	IPBCAMA04FA	**IPBCAMA04ZA**	**IPBCAMA04Z01A**
Sensor	1 / 3" CMOS	1 / 3" CMOS	1 / 3" CMOS
Resolution	2592 × 1520 (4MP)	2592 × 1520 (4MP)	2592 × 1520 (4MP)
Lens	2.8 mm, Fixed lens	2.8~12 mm, Motorised lens with autofocus	2.8~12 mm, Motorised lens with autofocus
Min. Lighting	0.005 lux@F1.6,AGC ON; 0 lux with IR 0.0028 lux@F1.2,AGC ON; 0 lux with IR	0.005 lux@F1.6,AGC ON; 0 lux with IR 0.0028 lux@F1.2,AGC ON; 0 lux with IR	0.005 lux@F1.6,AGC ON; 0 lux with IR 0.0028 lux@F1.2,AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed
IR	2 led array / 50m (Smart IR)	2 LED arrays / 50 m (Smart IR)	4 LED arrays / 70m (Smart IR)
WDR	120 dB	120 dB	120 dB
Starlight	Ultra Starlight	Ultra Starlight	Ultra Starlight
White balancing	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
Video Compression	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG
Frame rate	Main Stream: 4MP/2K/3MP/1080P / 720P (60Hz:1 ~ 30fps; 50Hz: 1~25fps) HFR mode: 1080P / 720P (60Hz: 1 ~ 60fps; 50Hz: 1~50fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 30fps; 50Hz: 1~25fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps)	Main Stream: 4MP/2K/3MP/1080P / 720P (60Hz:1 ~ 30fps; 50Hz: 1~25fps) HFR mode: 1080P / 720P (60Hz: 1 ~ 60fps; 50Hz: 1~50fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 30fps; 50Hz: 1~25fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps)	Main Stream: 4MP/2K/3MP/1080P / 720P (60Hz:1 ~ 30fps; 50Hz: 1~25fps) HFR mode: 1080P / 720P (60Hz: 1 ~ 60fps; 50Hz: 1~50fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 30fps; 50Hz: 1~25fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps)
Multi Streaming	3 Streams	3 Streams	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation), flip, lens distortion correction
DVA Video Analysis*	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map	Area entry/exit/Intrusion (distinction between humans/vehicles), line crossing (distinction between humans/vehicles), video tampering, scene change, face detection, face capture, target counting (humans/vehicles), human tracking, motion detection, *object abandoned/removed, crowd density, heat map
ROI	8 areas	8 areas	8 areas
Privacy zones	4	4	4
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	/	/	1 input - 1 output
Audio Inputs/Outputs	1CH audio input	1CH audio input	1CH audio input; 1 audio output
IP rating	IP67	IP67	IP67
IK rating	IK10	IK10	IK10
Power supply	12 Vdc (<9.5W)	12 Vdc (<12W)	12 Vdc (<10W)
POE power supply	Standard IEEE802.3af	Standard IEEE802.3af	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH
Dimensions (mm)	217.7 x 80.5 x 80.5	217.7 x 80.5 x 80.5	279.5 x 100.3 x 88.9

* Available with firmware 5.1.0

IP cameras | ADVANCE Series

IP 8MP

	IPTCAMA08FA	IPTCAMA08ZA	IPKCAMA08ZA
Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS
Resolution	3840 x 2160 (8MP)	3840 x 2160 (8MP)	3840 x 2160 (8MP)
Lens	2.8 mm, Fixed lens	2.8~12 mm, Motorised lens with autofocus	2.8~12 mm, Motorised lens with autofocus
Min. Lighting	0.11 lux @F2.2, AGC ON; 0 lux with IR 0.032 lux @ F1.2, AGC ON; 0 lux with IR	0.11 lux @F2.2, AGC ON; 0 lux with IR 0.032 lux @ F1.2, AGC ON; 0 lux with IR	0.11 lux @F2.2, AGC ON; 0 lux with IR 0.032 lux @ F1.2, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed
IR	1 LED array / 30 m (Smart IR)	2 LED arrays / 50 m (Smart IR)	2 LED arrays / 50 m (Smart IR)
WDR	D-WDR, 100dB	D-WDR, 100dB	D-WDR, 100dB
Starlight	/	/	/
White balancing	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264
Frame rate	Main Stream: 8MP/ 6MP/ 5MP (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 25fps; 50Hz: 1~20fps)	Main Stream: 8MP/ 6MP/ 5MP (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 25fps; 50Hz: 1~20fps)	Main Stream: 8MP/ 6MP/ 5MP (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 25fps; 50Hz: 1~20fps)
Multi Streaming	3 Streams	3 Streams	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)
Video Analysis	Line crossing, video tampering, scene change, motion detection	Line crossing, video tampering, scene change, motion detection	Line crossing, video tampering, scene change, motion detection
ROI	8 Areas	8 Areas	8 Areas
Privacy zones	4	4	4
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	/	/	1 input - 1 output
Audio Inputs/Outputs	1CH built-in microphone; 1CH audio input	1CH built-in microphone; 1CH audio input	1CH audio input, 1 audio output
IP rating	IK10	IK10	IK10
IK rating	IP67	IP67	IP67
Power supply	12 Vdc (<6W)	12 Vdc (<9W)	12 Vdc (<9W)
POE power supply	Standard IEEE802.3af	Standard IEEE802.3af	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH
Dimensions (mm)	94.6 x 94.6 x 82.8	111.5 x 111.5 x 99.6	141 x 141 x 100.2

	IPBCAMA08FA	IPBCAMA08ZA	IPBCAMA08Z01A
Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS
Resolution	3840 x 2160 (8MP)	3840 x 2160 (8MP)	3840 x 2160 (8MP)
Lens	2.8 mm, Fixed lens	2.8~12 mm, Motorised lens with autofocus	2.8~12 mm, Motorised lens with autofocus
Min. Lighting	0.11 lux @F2.2, AGC ON; 0 lux with IR 0.032 lux @ F1.2, AGC ON; 0 lux with IR	0.11 lux @F2.2, AGC ON; 0 lux with IR 0.032 lux @ F1.2, AGC ON; 0 lux with IR	0.11 lux @F2.2, AGC ON; 0 lux with IR 0.032 lux @ F1.2, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed
IR	2 led array / 50m (Smart IR)	2 LED arrays / 50 m (Smart IR)	4 LED arrays / 70m (Smart IR)
WDR	D-WDR, 100dB	D-WDR, 100dB	D-WDR, 100dB
Starlight	/	/	/
White balancing	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264
Frame rate	Main Stream: 8MP/ 6MP/ 5MP (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 25fps; 50Hz: 1~20fps)	Main Stream: 8MP/ 6MP/ 5MP (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 25fps; 50Hz: 1~20fps)	Main Stream: 8MP/ 6MP/ 5MP (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Sub Stream: 720P/D1/CIF (60Hz: 1 ~ 25fps; 50Hz: 1~20fps) Third Stream: D1/CIF/480x240 (60Hz: 1 ~ 25fps; 50Hz: 1~20fps)
Multi Streaming	3 Streams	3 Streams	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)
Video Analysis	Line crossing, video tampering, scene change, motion detection	Line crossing, video tampering, scene change, motion detection	Line crossing, video tampering, scene change, motion detection
ROI	8 Areas	8 Areas	8 Areas
Privacy zones	4	4	4
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	/	/	1 input - 1 output
Audio Inputs/Outputs	1CH audio input	1CH audio input	1CH audio input; 1 audio output
IP rating	IP67	IP67	IP67
IK rating	IK10	IK10	IK10
Power supply	12 Vdc (<9.5W)	12 Vdc (<12W)	12 Vdc (<10W)
POE power supply	Standard IEEE802.3af	Standard IEEE802.3af	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH
Dimensions (mm)	217.7 x 80.5 x 80.5	217.7 x 80.5 x 80.5	279.5 x 100.3 x 88.9

IP cameras | ADVANCE Series

PERIMETER PROTECTION 5MP

	ULTRA STARLIGHT	ULTRA STARLIGHT
	IPTCAMA05Z02A	**IPBCAMA05Z02A**
Sensor	1 / 2.7" CMOS	1 / 2.7" CMOS
Resolution	2592 × 1944 (5MP)	2592 × 1944 (5MP)
Lens	2.8~12 mm, Motorised lens with autofocus	2.8~12 mm, Motorised lens with autofocus
Min. Lighting	0.008 lux @F1.4, AGC ON; 0 lux with IR 0.0045 lux @ F1.2, AGC ON; 0 lux with IR	0.008 lux @F1.4, AGC ON; 0 lux with IR 0.0045 lux @ F1.2, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed
IR	2 LED arrays / 50 m (Smart IR)	3 LED arrays / 50 m (Smart IR)
WDR	WDR, 120dB	WDR, 120dB
Starlight	Ultra starlight	Ultra starlight
White balancing	Auto/Manual/Indoor/Outdoor	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
Video Compression	Smart H265 / H.265+ / H.265 / Smart H264 / H.264+ / H.264 / MJPEG	Smart H265 / H.265+ / H.265 / Smart H264 / H.264+ / H.264 / MJPEG
Frame rate	Main Stream: 60Hz: 5MP/4MP/ 2K/3MP/ 1080P/ 720P (1~30fps) 50Hz: 5MP/ 4MP/ 3MP/ 1080P/ 720P (1~25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480 × 240 (1~30fps); 50Hz: D1/CIF/480× 240 (1~25fps) HFR on: 1080P (1~60fps)	Main Stream: 60Hz: 5MP/4MP/ 2K/3MP/ 1080P/ 720P (1~20fps) 50Hz: 5MP/ 4MP/ 2K/3MP/ 1080P/ 720P (1~20fps) Sub Stream: 60Hz: 720P/D1/CIF (1~20fps); 50Hz: 720P/D1/CIF (1~20fps) Third Stream: 60Hz: D1/CIF/480 × 240 (1~20fps); 50Hz: D1/CIF/480× 240 (1~20fps) HFR on: 1080P (1~60fps)
Multi Streaming	3 Streams	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)
DVA Video Analysis	Area entry/exit/Intrusion (distinction between humans/ vehicles), Line crossing (distinction between humans/vehicles), scene change, motion detection	Area entry/exit/Intrusion (distinction between humans/ vehicles), Line crossing (distinction between humans/vehicles), scene change, motion detection
ROI	8 areas	8 areas
Privacy zones	4	4
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	1 input - 1 output	1 input - 1 output
Audio Inputs/Outputs	1CH audio input; 1CH audio output; 1CH built-in loudspeaker, 1CH built-in microphone	1CH audio input; 1CH audio output; 1CH built-in loudspeaker
IP rating	IP67	IP67
IK rating	IK10	IK10
Power supply (Vdc-Watt)	12, < 11W	12, < 11.5W
POE power supply	Standard IEEE802.3af	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH
Dimensions (mm)	99.6 x 99.6 x 111.5	80.5 x 80.5 x 217.7

The special video analysis algorithm built into the cameras makes it possible to categorise people and vehicles involved in perimeter intrusions, thereby eliminating false alarms generated by animals, rain, leaves or other moving objects.

If one or more configured lines are crossed, an alarm is generated, a customised audio message is played through the speaker built into the camera and the WHITE LEDs come on, illuminating the scene for optimal night vision and acting as a deterrent.

43

IP CAMERAS

NVRS XVRS

ADVANCE VMS SOFTWARE

PLATFORM PRODUCT

COMELIT ADVANCE APP

MONITORS

SWITCHES

WI-FI TRANSMISSION

ANPR PLATE READING | High Frame Rate

	ULTRA STARLIGHT
	IPLPRA02ZA
Sensor	1 / 2.8" CMOS
Resolution	1920 × 1080 (2MP)
Lens	7~22mm, Motorised lens with autofocus
Min. Lighting	0.0026 lux@F1.2, AGC ON 0.005 lux@F1.4, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed
IR	2 LED arrays / 50 m (Smart IR)
WDR	WDR, 120dB
Starlight	Ultra starlight
White balancing	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC
Video Compression	Smart H265 / H265+ / H265 / Smart H264 / H.264+ / H.264 / MJPEG
Frame rate	Main Stream: 60Hz: 1080P/720P(1~30fps); 50Hz: 1080P/720P (1~25fps) HFR Mode: 1080P/720P(1~60fps/50fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50Hz: D1/CIF/480x240 (1~25fps
Multi Streaming	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)
Video Analysis	Scene change, ANPR, motion detection
Max speed	70 km/h
White/Black list	10000
Supported states/countries	**USA:** California, Colorado, Florida, Georgia, Iowa, Illinois, Kentucky, Louisiana, Massachusetts, Michigan, Minnesota, North Carolina, New Jersey, New Mexico, Nevada, New York, Ohio, Oregon, Pennsylvania, Texas, Virginia, Washington, Wisconsin. **Europe:** Belgium, Bulgaria, Croatia, France, Germany, United Kingdom, Greece, Hungary, Italy, Netherlands, Poland, Romania, Russia, Spain **Others:** Israel
ROI	8 areas
Privacy zones	4
Integration protocols	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	1 input - 1 output
Audio Inputs/Outputs	1CH audio input; 1CH audio output
IP rating	IP67
IK rating	IK10
Power supply	12 Vdc (<11W)
POE power supply	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH
Dimensions (mm)	99.6 x 99.6 x 111.5

Comelit ANPR (Automatic Number Plate Recognition) cameras capture high-quality images in Full HD. Integration with Advance VMS software and a Parking Management function means they can be used to read number plates and to manage access in car parks. The cameras can also work as stand-alone devices. Weekly schedules and white/black lists can be configured directly via the camera web page.

IP cameras | ADVANCE Series

FISHEYE 6MP

	IPFCAMA06FA
Sensor	1 / 2.9" 6MP CMOS
Resolution	2160 × 2160 (6MP)
Lens	1.07mm, Fixed lens
Min. Lighting	0.068lux@F2.0, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed
IR	3 LED arrays / 20-30 m (Smart IR)
WDR	D-WDR 100dB
Starlight	/
White balancing	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC
Video Compression	H.265 / H.264 / MJPEG
Frame rate	Fisheye+panorama+3 PTZ 50Hz: 25fps@(2160 × 2160/1920×1920/1440×1440), 25fps@(1920 × 1080), 25fps@(960× 540)*3 60Hz: 30fps@(2160 × 2160/1920×1920/1440×1440), 30fps@(1920 × 1080), 30fps@(960× 540)*3, Fisheye+ 4 PTZ 50Hz: 25fps@(2160 × 2160/1920×1920/1440×1440), 25fps@(960× 540)*4 60Hz: 30fps@(2160 × 2160/1920×1920/1440×1440), 30fps@(960× 540)*4
Multi Streaming	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)
Video Analysis	Motion detection
ROI	8 areas
Privacy zones	4
Integration protocols	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	1 input - 1 output
Audio Inputs/Outputs	1CH audio input; 1CH audio output
IP rating	IP67
IK rating	IK10
Power supply	12 Vdc (<12W)
POE power supply	Standard IEEE802.3af
Operating temperature	-30°C ~ 50 °C < 95% RH
Dimensions (mm)	39 x 130 x 130

Offering a 360-degree view is the main advantage of Comelit's fisheye camera. The extended field of vision provided by this device offers the user an excellent panoramic view, preventing the so-called "blind spot". Fisheye cameras are designed to cover a 360° view when mounted on the ceiling and a 180° view when mounted on a wall.

Fisheye cameras can offer different views: panoramic 180°, 360° and the view of several digital PTZ cameras. These manipulations can take place during live streams or playback, without affecting the video recording.

Digital PTZ

Shows the image as PTZ in full screen mode. The position of the image can be adjusted and enlarged as a result.

Cylinder

Shows the 360° view as a 3D cylinder that can be rotated and enlarged with a finger.

Virtual Reality

Shows the image as if it was directly underneath the video camera. If the viewing device is moved, the camera image also moves.

360°/180° Stretched View

Offers a full 360° fisheye image

Panoramic View

Shows the image in 2 sections of 180° (front and back), which can be made to scroll to the left/right.

IP cameras | ADVANCE Series

MULTI-SENSOR 8MP
Panoramic 180°

ULTRA STARLIGHT

	IPSCAMA08F04A
Sensor	4x 2.8" Progressive Scan CMOS
Resolution	4096 × 1800 (8MP)
Lens	4x 3.3 mm, Fixed lens
Min. Lighting	Colour: 0.03 lux@F2.0,AGC ON; 0 lux with IR B&W: 0.001 lux@ F2.0, AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed
IR	8 LED arrays / 20-30 m (Smart IR)
WDR	D-WDR 100dB
Starlight	Ultra starlight
White balancing	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC
Video Compression	H.265 / H.264 / MJPEG
Frame rate	Main Stream: Max 4096x1800 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps) Sub Stream: Max 1024x452 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps) Third Stream: Max 1920x832 (60Hz: 1 ~ 30fps; 50Hz: 1~25fps)
Multi Streaming	1 Streaming
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)
Video Analysis	Motion detection
ROI	8 areas
Privacy zones	4
Integration protocols	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	1 input - 1 output
Audio Inputs/Outputs	1CH audio input; 1CH audio output
IP rating	IK10
IK rating	IP67
Power supply	12 Vdc (<12W)
POE power supply	Standard IEEE802.3af
Operating temperature	-30°C ~ 50 °C < 95% RH
Dimensions (mm)	96 x 159.7 x 288.4

The Comelit multi-sensor camera offers an extraordinary viewing experience. The 8MP ultra-high resolution 180° image is the result of the powerful software inside the camera, which combines the video streams originating from the four 2MP camera modules. The multi-sensor camera offers a large coverage area and is an effective alternative to installing several cameras, with a significantly lower cost and shorter installation time. Starlight technology always offers a sharp and detailed image, even in low lighting conditions.

IP CAMERAS

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COMELIT
ADVANCE APP

MONITORS

SWITCHES

WI-FI
TRANSMISSION

WIFI 2MP

	WICAMA02FA
Sensor	1 / 2.7" CMOS
Resolution	1920 x 1080 (2MP)
Lens	2.8 mm, Fixed lens
Min. Lighting	0.03 lux@F2.5,AGC ON; 0 lux with IR 0.007 lux@F1.2,AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed
IR	1 led array / 10m (Smart IR)
WDR	D-WDR 100dB
Starlight	/
White balancing	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/ HLC
Video Compression	H.265 / H.264 / MJPEG
Frame rate	Main Stream: 60Hz: 1080P / 720P(1 ~ 30fps); 50Hz : 1080P/ 720P (1 ~ 25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50HZ: D1/CIF/480x240 (1~25fps)
Multi Streaming	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)
Video analysis	Line crossing, scene change, intrusion, motion detection
PIR range	Horizontal angle: 100°, Range 7 m
ROI	8 Areas
Privacy zones	4
Integration protocols	ONVIF (Profile S, Profile G)
Wireless standards	IEEE802.11b/g/n
Frequency range	2.4 GHz ~ 2.4835 GHz
Safety	WEP, WPA-PSK/WPA2-PSK
Wireless range	50 m
SD card slot	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	1 input - 1 output
Audio Inputs/Outputs	1CH built-in microphone; 1CH built-in loudspeaker
IP rating	Indoor use
IK rating	/
Power supply	12 Vdc (<4.5W)
POE power supply	Standard IEEE802.3af
Operating temperature	-10 °C ~ 45 °C < 95% RH
Dimensions (mm)	130 x 71.7 x 71.7

Full remote control

Thanks to the Comelit Advance App, you can view live images on your smartphone, perform a detailed event search and view the corresponding video recording.
In addition to the motion detection function for detecting movement within the captured image, which can be configured directly from the camera web page, the infrared motion sensor (PIR) guarantees high quality detection and reliability in all conditions. In complete darkness the infrared LED starts working, with a range of 10 metres. The microphone and built-in loudspeaker allow two-way communication.

IP cameras | ADVANCE Series

2MP (5~50 mm lens)

ULTRA STARLIGHT

IPBCAMA02Z03A

Sensor	1 / 3" CMOS
Resolution	1920 x 1080 (2MP)
Lens	5~50 mm Motorised lens with autofocus
Min. Lighting	0.018 lux@F1.2,AGC ON; 0 lux with IR 0.045 lux@F1.8,AGC ON; 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed
IR	5 LED arrays / 100m (Smart IR)
WDR	WDR, 120dB
Starlight	Ultra starlight
White balancing	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC
Video Compression	H.265 / H.264 / MJPEG
Frame rate	Main Stream: 60Hz: 1080P (1 ~ 30fps) / 720P (1 ~ 30fps); 50Hz: 1080P (1 ~ 25fps) / 720P (1 ~ 25fps) Sub Stream: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/D1/CIF (1~25fps) Third Stream: 60Hz: D1/CIF/480x240 (1~30fps); 50HZ: D1/CIF/480x240 (1~25fps)
Multi Streaming	3 Streams
Digital effects	Corridor mode (90°/180°/270° rotation), defog, mirror mode (horizontal, vertical, 180° rotation)
Video Analysis	Line crossing, scene change, intrusion, face detection, motion detection
ROI	8 areas
Privacy zones	4
Integration protocols	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	1 input - 1 output
Audio Inputs/Outputs	1CH audio input; 1CH audio output
IP rating	IP66
IK rating	IK10
Power supply	12 Vdc (<13W)
POE power supply	Standard IEEE802.3af
Operating temperature	-30°C ~ 60°C < 95% RH
Dimensions (mm)	109 x 109 x 360

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MONITORS

SWITCHES

WI-FI TRANSMISSION

IP cameras | ADVANCE Series

IP PTZ

EFFICIENT H265 COMPRESSION CODEC

PRECISE PAN/TILT MOTION CONTROL

QUICK ZOOM AND AUTOMATIC FOCUS

ULTRASTARLIGHT TECHNOLOGY FOR SUPERIOR IMAGE QUALITY

5 Watt high-power heater, controlled in real time via CPU and temperature sensor.

At low temperatures, a stream of hot air is channelled directly to the glass on the front cover to remove frost.

In the event of very high environmental temperatures, the meticulous internal design of the camera allows air circulation for cooling.

High-efficiency turbofan with long lifespan (100,000 hours).

Meticulous SOC design and low absorption hardware means the camera can be powered with class 1 POE and is compatible with most NVRs.

PTZ motor control board with temperature sensor and real-time monitoring.

01 Anti-glare glass

02 Smart IR

01

02

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ADVANCE APP

MONITORS

SWITCHES

WI-FI
TRANSMISSION

20x

30x

	ULTRA STARLIGHT	ULTRA STARLIGHT
	IPPTZA02Z20A	**IPPTZA04Z30A**
Sensor	1/2.8" CMOS	1/2.5" CMOS
Resolution	1920 x 1080 (2MP)	2560 x 1440 (4MP)
Lens	5.5~110 mm, Motorised lens with autofocus (20X optical zoom)	4.7~141mm, Motorised lens with autofocus (30X optical zoom)
Min. Lighting	Colour: 0.005 lux @F1.6, AGC ON 0 lux with IR	Colour: 0.01 lux @F1.6, AGC ON 0 lux with IR
Day/Night	Auto(ICR)/Day/Night/Timed	Auto(ICR)/Day/Night/Timed
IR	7 LED arrays / 150m (Smart IR)	8 LED arrays / 100m (Smart IR)
WDR	WDR, 120dB	D-WDR, 100dB
Starlight	Ultra starlight	Ultra starlight
White balancing	Auto/Manual/ATW (Auto-tracking WB)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Frame rate	Main Stream: 50Hz: 25fps (1920 1080, 1280 720); 60Hz: 30fps (1920×1080, 1280×720) Sub Stream: 50Hz: 25fps (1280×720, D1, CIF); 60Hz: 30fps (1280×720, D1, CIF) Third Stream: 50Hz: 25fps (D1, 480×240, CIF); 60Hz: 30fps (D1, 480×240, CIF)	Main Stream: 50Hz: 25fps (2560×1440, 2304×1296, 1920×1080, 1280×720); 60Hz: 30fps (2560×1440, 2304×1296, 1920×1080, 1280×720) Sub Stream: 50Hz: 25fps (1280×720, D1, CIF); 60Hz: 30fps (1280×720, D1, CIF) Third Stream: 50Hz: 25fps (D1, 480×240, CIF); 60Hz: 30fps (D1, 480×240, CIF)
Multi Streaming	3 Streams	3 Streams
Digital effects	Defog, mirror mode (horizontal, vertical, 180° rotation)	Defog, mirror mode (horizontal, vertical, 180° rotation)
Video Analysis	Line crossing, scene change, intrusion, target counting, motion detection, object abandoned/removed, crowd density	Motion Detection, fault indication (SD card error, IP conflict, no network), Autotracking available from fw 5.0.1
Privacy zones	4	/
Pan	360° endless, Speed Configurable, from 0.5°/s to 80°/s; Preset speed: 80°/s	360° endless, Speed Configurable, from 0.5°/s to 150°/s; Preset speed: 150°/s
Tilt	From -5° to 90° (auto-flip), Speed Configurable, from 0.5°/s to 80°/s; Preset speed: 80°/s	From -5° to 93° (auto-flip), Speed Configurable, from 0.5°/s to 70°/s; Preset speed: 120°/s
Preset/Cruise/Trace	360 Preset/ 8 cruises, up to 16 presets for each cruise/ 4 tracks, record time over 3 minutes for each trace	360 Preset/ 8 cruises, up to 16 presets for each cruise/ 4 tracks, record time over 3 minutes for each trace
Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning/Dome Reboot	Preset/Cruise/Trace/Random Scan/Boundary Scanning/Dome Reboot
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
SD card slot	Built-in SD card slot (supports up to 128GB)	Built-in SD card slot (supports up to 128GB)
Alarm Inputs/Outputs	/	1 input - 1 output
Audio Inputs/Outputs	/	1CH audio input; 1CH audio output
IP rating	IP66	IP66
IK rating	IK10	IK10
Power supply	12 Vdc (<20W) (Power supply included)	24 Vdc (<30W) (Power supply included)
POE power supply	Standard IEEE 802.3at (class 4)	Standard IEEE 802.3at (class 4)
Operating temperature	-30°C ~ 60°C < 95% RH	-30°C ~ 60°C < 95% RH
Dimensions (mm)	268 x 173 x 173	328 x 208.4 x 208.4

IP cameras | ADVANCE Series

THERMAL DEVICES

01 **Take a quick and accurate measurement of body temperature**

02 **Avoid long waiting queues and people gatherings**

03 **Avoid unnecessary contact with staff**

04 **Eliminate the need of support staff**

SOLUTIONS FOR MEASURING BODY TEMPERATURE, THE FIRST DEFENSE AGAINST THE SPREAD OF COVID-19.

The verification of the body temperature is crucial to counteract the transmission of the COVID-19 virus. As stated by the experts, the main weapon we have available to combat the infection is the limitation of contact with infected people.
Radiometric technology is the only tool that allows us to effectively monitor visitors from a safe distance.

51

IP CAMERAS

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SOFTWARE

PLATFORM
PRODUCT

COMELIT
ADVANCE APP

MONITORS

SWITCHES

WI-FI
TRANSMISSION

IP cameras | ADVANCE Series

THERMAL LCD PANEL

	IPTHPAN02FA
Sensor	1/2.7" CMOS
Resolution	1920 x 1080 (Full-HD 1080p)
Lens	3.97 mm, binocular
Lighting	Soft white light / 3m
WDR	WDR (120dB)
Video Analysis	Face recognition with integrated database of up to 20,000 faces
Temperature misuring	From 32 to 43 °C ±0.3°C (Reading distance 5-10 cm)
SD card slot	Micro-SD (128GB max, card not included)
Alarm Inputs/Outputs	2 inputs - 2 outputs - 1 relay
Audio Inputs/Outputs	1 microphone - 1 speaker, bidirectional audio
Wiegand Inputs/Outputs	26-34 Bit
IP rating	IP63
Power supply (Vdc)	12 Vdc (max 1A, power supply not included)
Operating temperature	-20 °C ~ 60 °C < 95 % RH
Dimensions (mm)	170 x 270 x 34

Tablet style Panel with face recognition, temperature measurement and mask worn detection.

Tablet style panel with an 8-inch LCD touch screen equipped with high precision body temperature detector.
The temperature is measured on the wrist, with no physical contact, via an infrared sensor that ensures maximum precision and decreases the impact of external factors that can impair detection on the forehead. The panel features a front camera that detects the presence or absence of a mask and, through facial recognition, also allows access control management with a recognition percentage of 99.2% even with a mask worn. Allows the detection/measurement of 30 people per minute.

High precision contactless body temperature measurement up to 30 people per minute.

Real-time alarms (Audio message/remote notifications) and integrated facial recognition.

For more information, contact COMELIT directly.

IP cameras | ADVANCE Series

BI-SPECTRUM THERMAL CAMERAS

	IPTHBCAMA05F01A
Sensor	Optical: 1/2.7" CMOS; Thermal: 17um vanadium oxide uncooled plane detector
Thermal sensitivity of detector (NETD)	<35mK@25°C
Resolution	Optical: 2592x1944 (5MP); Thermal: 384x288
Lens	Optical: 8mm; Thermal: 12.3mm
Min. Lighting	0.01 (colour), 0 (B/W, led IR ON)
Day/Night	Auto(ICR)/Day/Night/Timed
IR	3 led arrays / 30m (Smart IR)
WDR	WDR (120dB)
Starlight	/
White balancing	Auto/Manual/Indoor/Outdoor
BLC/DNR/HLC	BLC/2D DNR/3D DNR/HLC
Video Compression	Smart H.265 / H.265+ / H.265 / Smart H.264 / H.264+ / H.264 / MJPEG
Frame rate	30fps
Multi Streaming	3 Streams
Digital effects	Defog, ROI zones
ROI	8 areas
Integration protocols	DDNS, DHCP, FTP, HTTP, HTTPS, IPv4, IPv6, NTP, PPPoE, QoS, RTSP, SMTP, SNMP, UDP, UPnP, ONVIF, IEEE 802.1x
SD card slot	Micro-SD (128GB max) (card not included)
Alarm Inputs/Outputs	1 input - 1 output
Audio Inputs/Outputs	/
IP rating	IP67
Power supply (Vdc-Watt)	12, <9
Power supply	External power supply, PoE
POE power supply	Standard IEEE802.3af (class 0)
Operating temperature	-20 °C ~ 50 °C < 95 % RH
Dimensions (mm)	278,3 x 100,2 x 88,7

Thermographic cameras for detecting the temperature of up to 600 people per minute. The cameras can read up to 30 faces simultaneously and record all the movement to know the exact number of people entering / leaving a certain area and thus avoid gatherings.

High precision contactless body temperature measurement up to 600 people per minute .

5 MP resolution, 2592x1944 @ 30fps, 8mm lens (visible) and up to 384x288 resolution, 12.3mm lens (thermal) and a temperature detection accuracy of ± 0.5 ° C (± 0.3 ° C with use of the Black Body).

Bi-directional audio with voice alarm when an abnormal body temperature is recorded.

Real-time alarms and Deep Video Analysis functions.

Equipped with a 120 dB True WDR sensor to better counteract the backlight effect.

Fully integrated into Comelit Advance NVR and Comelit Advance VMS software.

Also available with 160x120 thermal resolution (art. IPTHBACAMA05F02A). For more information, contact COMELIT directly.

53

IP CAMERAS

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XVRS

ADVANCE VMS
SOFTWARE

PLATFORM
PRODUCT

COMELIT
ADVANCE APP

MONITORS

SWITCHES

WI-FI
TRANSMISSION

IP cameras | ADVANCE Series

ACCESSORIES

ACCESSORIES CAMERAS THERMAL BI-SPECTRUM

BBTHA
Adjustable temperature measurement range between 5 and 50°C, temperature resolution of 0.1°C, measurement accuracy ±0.1°C@40°C, measurement stability ±(0.1~0.2)°C/30 minutes, effective Radiation Area 70x70 mm, effective emission 0.97±0.02.

THNVR008A08PA - THNVR008A08PASL
8-port POE NVR complete with "temperature screening management" functions. It also supports the acquisition, preview, search and reproduction of faces and temperature measurements, alarm management, reports and statistics. Maximum supported video input resolution 8MP @ 25FPS. Available in version with 1TB HDD (THNVR008A08PA) or without HDD (THNVR008A08PASL).

BRKTHCAMA
Floor-standing tripod, for use in conjunction with fixing plate art. BRKTHCAMA01, for thermal cameras art. IPTHBCAMA05F01A and IPTHBCAMA05F02A.

LCD PANEL ACCESSORIES

BRKPAN-WM
WALL BACKPLATE FOR IPTHPAN02FA
Wall mounting backplate for panel art. IPTHPAN02FA.

BRKPAN-SA
DESK BACKPLATE FOR IPTHPAN02FA
Desk base for panel art. IPTHPAN02FA.

BRKPAN
SWIVEL BACKPLATE FOR IPTHPAN02FA
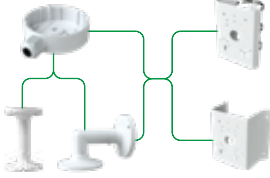Swivel backplate for panel art. IPTHPAN02FA.
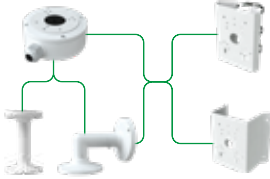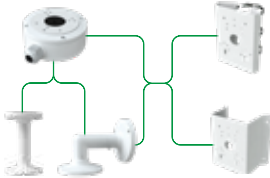
BRKPAN-LA
FLOOR BACKPLATE FOR IPTHPAN02FA
Floor mounting backplate for panel art. IPTHPAN02FA.
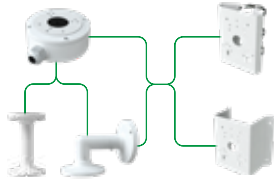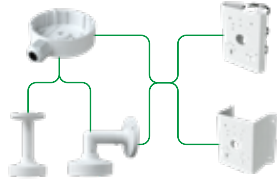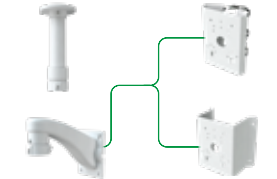
43082TH
43082UK
POWER SUPPLY FOR IPTHPAN02FA
Power supply for panel art. IPTHPAN02FA. (Art. 43082UK UK plug).

IP cameras | ADVANCE Series

ACCESSORIES

		JUNCTION BOX	CEILING-MOUNTED	WALL-MOUNTED	POLE-MOUNTED	CORNER-MOUNTED	CONFIGURATION
	IPTCAMA02ZA IPTCAMA04ZA IPTCAMA08ZA	 **JBA-TVA**	 **CMA-TVA**	 **WMA-TVA**	 **PMA-A**	 **AMA-A**	
	IPTCAMA02FA IPTCAMA04FA IPTCAMA08FA						
	IPTCAMA05Z02A	 **JBA-TBBA**	 **CMA-KTBBA**	 **WMA-KTBBA**	 **PMA-A**	 **AMA-A**	
	IPBCAMA02Z01A IPBCAMA04Z01A IPBCAMA08Z01A IPBCAMA02Z03A IPLPRA02ZA IPTHBCAMA05F01A IPTHBCAMA05F02A						
	IPSCAMA08F04A	 **JBA-KA**	 **CMA-KTBBA**	 **WMA-KTBBA**	 **PMA-A**	 **AMA-A**	
	IPKCAMA02ZA IPKCAMA04ZA IPKCAMA08ZA						

55

IP CAMERAS

NVRS
XVRS

ADVANCE VMS
SOFTWARE

PLATFORM
PRODUCT

COMELIT
ADVANCE APP

MONITORS

SWITCHES

WI-FI
TRANSMISSION

	JUNCTION BOX	CEILING-MOUNTED	WALL-MOUNTED	POLE-MOUNTED	CORNER-MOUNTED	CONFIGURATION
IPBCAMA02FA IPBCAMA02ZA IPBCAMA04FA IPBCAMA04ZA IPBCAMA08FA IPBCAMA08ZA IPBCAMA05Z02A	JBA-BA	CMA-BA	WMA-BA	PMA-A	AMA-A	
IPFCAMA06FA	JBA-FA	CMA-FA	WMA-FA	PMA-A	AMA-A	
IPPTZA02Z20A IPPTZA04Z30A		CMA-PTZA	Included	PMA-A	AMA-A	

NVRs and XVRs
ADVANCE Series

MAIN FUNCTIONS

8MP

NVRs can record video in real time with a maximum resolution of up to 8MP.

Dual LAN

The dual network card can be used to balance band saturation.

Dual Video Output

NVRs support the HDMI and VGA dual video output. Some models also have an independent dual HDMI output (HDMI1@1080P e HDMI2@4K) as well as the VGA output.

E-SATA

The E-Sata port can be used to connect, if necessary, additional storage devices.

HDD

NVRs support up to 16 HDDs. The maximum capacity for each HDD is 8TB. The status of each HDD can be monitored using the S.M.A.R.T. function. RAID support (0-1-5-6-10).

Hot Swap

For simple management and maintenance, HDDs can be replaced or added in 16 HDD models without requiring a system restart or power-down.

DVA

The NVR supports all DVA functions.

Storage Group

In XVR/NVR models with more than one HDD, the user can pair cameras/HDDs to achieve improved service continuity.

Recording duration on a single channel

The recording duration before overwriting can be set on each camera connected to the NVR.

5 in 1

XVRs support various technologies: AHD, TVI, CVI, analogue and IP.

From analogue to IP

The analogue channel can be flexibly switched to the IP channel.

USB Alarm

XVRs/NVRs support the expansion module with 16 inputs and 6 alarm outputs.

Smart search

Used to quickly search for events. DVA technology also makes it possible to perform specific searches, by filtering people and vehicles.

PoE Long range

PoE NVRs, thanks to the LONG RANGE function, support PoE transmission up to 250 metres.

NVR
XVR

ADVANCE VMS
SOFTWARE

PLATFORM
PRODUCT

COMELIT
ADVANCE APP

MONITORS

SWITCHES

WI-FI
TRANSMISSION

NVRs and XVRs | ADVANCE Series

POE NVRs

	4 POE	**8 POE**	**16 POE**
	IPNVR004A08PA - IPNVR004A08PASL	**IPNVR008A08PA - IPNVR008A08PASL**	**IPNVR016A08PA - IPNVR016A08PASL**
IP Cameras	4ch	16ch	16ch
Max. Recording resolution	4CH @8MP/6MP/5MP/4MP/3MP /1080P/960P/720P/960H/D1/CIF	16CH @8MP/6MP/5MP/4MP/3MP /1080P/960P/720P/960H/D1/CIF	16CH @8MP/6MP/5MP/4MP/3MP /1080P/960P/720P/960H/D1/CIF
POE ports	4 x Ethernet (10/100/1000Mbps) PoE (IEEE802.3af), up to 250 m (Long Range ON)	8 x Ethernet (10/100/1000Mbps) PoE (IEEE802.3af), up to 250 m (Long Range ON)	16 x Ethernet (10/100/1000Mbps) PoE (IEEE802.3af), up to 250 m (Long Range ON)
Video outputs	1 (VGA) - 1920 x 1080; 1280 x 1024; 1024 x 768; 1 (HDMI) 4K (3840 x 2160); 1920 x 1080; 1280 x 1024; 1024 x 768	1 (VGA) - 1920 x 1080; 1280 x 1024; 1024 x 768; 1 (HDMI) 4K (3840 x 2160); 1920 x 1080; 1280 x 1024; 1024 x 768	1 (VGA) - 1920 x 1080; 1280 x 1024; 1024 x 768; 1 (HDMI) 4K (3840x2160); 1920 x 1080; 1280 x 1024; 1024 x 768
Audio Inputs/Outputs	1CH input; 1CH output, RCA	1CH input; 1CH output, RCA	1CH input; 1CH output, RCA
Recording type	Dual Streaming	Dual Streaming	Dual Streaming
Video Compression	H264-H265	H264-H265	H264-H265
Audio Compression	G.711 (U/A)	G.711 (U/A)	G.711 (U/A)
Recording Rate	Main stream: 8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/D1/CIF (1~25/30fps) Sub stream: 960H 1~25/30fps); D1/CIF/QCIF (1~25/30fps)	Main stream: 8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/D1/CIF (1~25/30fps) Sub stream: 960H (1~25/30fps); D1/CIF/QCIF (1~25/30fps)	Main stream: 8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/D1/CIF (1~25/30fps) Sub stream: 960H (1~25/30fps); D1/CIF/QCIF (1~25/30fps)
Synchronised playback	1CH@4K, 4CH@1080P	1CH@4K, 4CH@1080P, 9CH@D1, 16CH@D1	1CH@4K, 4CH@1080P, 9CH@720P, 16CH@720P
Video Analysis	Object abandoned/removed, scene change, line crossing, intrusion, target counting, crowd density, face detection	Object abandoned/removed, scene change, line crossing, intrusion, target counting, crowd density, face detection, face match, face check In, face attendance	Object abandoned/removed, scene change, line crossing, intrusion, target counting, crowd density, face detection, face match, face check In, face attendance
HDD interface	1 SATA, (Maximum Hard Disk capacity 8TB)	2 SATA, (Maximum Hard Disk capacity 8TB)	4 SATA, (Maximum Hard Disk capacity 8TB)
HDD included	IPNVR004A08PA: 1TB - IPNVR004A08PASL: No HDD	IPNVR008A08PA: 1TB - IPNVR008A08PASL: No HDD	IPNVR016A08PA: 2TB - IPNVR016A08PASL: No HDD
eSATA	/	/	/
Bandwidth	Incoming 40Mbps, outgoing 40Mbps	Incoming 160Mbps, outgoing 160Mbps	Incoming 160Mbps, outgoing 160Mbps
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
Max simultaneous connections	14	38	38
Alarm Inputs/Outputs	/	8/4	8/4
Network interface	RJ 45 x 1 (10/100/1000Mbps)	RJ 45 x 1 (10/100/1000Mbps)	RJ 45 x 1 (10/100/1000Mbps)
Serial ports	RS-485 / 2 x USB 2.0	RS-485 / 1x USB 2.0 / 1x USB 3.0	RS-485 / 1x USB 2.0 / 1x USB 3.0
Power supply	DC 48V/1.25A	DC48V/2.5A	100-240V, 50-60 Hz
Operating temperature	-10 °C ~ 50 °C < 90 % RH	-10 °C ~ 50 °C < 90 % RH	-10 °C ~ 50 °C < 90 % RH
Dimensions (mm) HxWxD	52 x 300 x 248	45 x 380 x 268	70 x 440 x 390

NVRs

NVR XVR

ADVANCE VMS SOFTWARE

PLATFORM PRODUCT

COMELIT ADVANCE APP

MONITORS

SWITCHES

WI-FI TRANSMISSION

	IPNVR032A08NASL	IPNVR064A08NASL	IPNVR128A08NASL
IP Cameras	32ch	64ch	128ch
Max. Recording resolution	32Ch@8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/ D1/CIF	64Ch@8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/ D1/CIF	128Ch@8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/ D1/CIF
POE ports	/	/	/
Video outputs	HDMI1: 4K × 2K / 1920 × 1080 / 1280 × 1024 / 1024× 768 HDMI2: 1920 × 1080 / 1280 × 1024 / 1024× 768 VGA: 1920 × 1080 / 1280 × 1024 / 1024 × 768	HDMI1: 4K × 2K / 1920 × 1080 / 1280 × 1024 / 1024 × 768 HDMI2: 1920 × 1080 / 1280 × 1024 / 1024× 768 VGA: 1920 × 1080 / 1280 × 1024 / 1024 × 768	HDMI1: 4K × 2K / 1920 × 1080 / 1280 × 1024 / 1024 × 768 HDMI2: 1920 × 1080 / 1280 × 1024 / 1024× 768 VGA: 1920 × 1080 / 1280 × 1024 / 1024× 768
Audio Inputs/Outputs	1CH input; 1CH output, RCA	1CH input; 1CH output, RCA	1CH input; 1CH output, RCA
Recording type	Dual Streaming	Dual Streaming	Dual Streaming
Video Compression	264-H265	264-H265	264-H265
Audio Compression	G.711 (U/A)	G.711 (U/A)	G.711 (U/A)
Recording Rate	Main stream: 8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/D1/CIF (1~25/30fps) Sub stream: 960H 1~25/30fps); D1/CIF/QCIF (1~25/30fps)	Main stream: 8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/D1/CIF (1~25/30fps) Sub stream: 960H 1~25/30fps); D1/CIF/QCIF (1~25/30fps)	Main stream: 8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/D1/CIF (1~25/30fps) Sub stream: 960H 1~25/30fps); D1/CIF/QCIF (1~25/30fps)
Synchronised playback	1CH@4K, 4CH@5MP, 9CH@720P, 16CH@D1	1CH@4K, 4CH@5MP, 9CH@720P, 16CH@D1	1CH@4K, 4CH@5MP, 9CH@720P, 16CH@D1
Video Analysis	Object abandoned/removed, scene change, line crossing, intrusion, target counting, crowd density, face detection, face match, face check In, face attendance	Object abandoned/removed, scene change, line crossing, intrusion, target counting, crowd density, face detection	Object abandoned/removed, scene change, line crossing, intrusion, target counting, crowd density, face detection
HDD interface	8 SATA, (Maximum Hard Disk capacity 8TB) Supports RAID function 1,5,6,10	16 SATA, (Maximum Hard Disk capacity 8TB) Supports RAID function 0,1,5,6,10	16 SATA, (Maximum Hard Disk capacity 8TB) Supports RAID function 0,1,5,6,10
HDD included	/	/	/
eSATA	E-SATA × 2	E-SATA × 1	E-SATA × 1
Bandwidth	Incoming 256Mbps, outgoing 256Mbps	Incoming 320Mbps, outgoing 320Mbps	Incoming 384Mbps, outgoing 384Mbps
Integration protocols	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)	ONVIF (Profile S, Profile G)
Max simultaneous connections	70	102	166
Alarm Inputs/Outputs	8/4	8/4	8/4
Network interface	RJ45 x 2 (10 / 100 / 1000 Mbps)	RJ45 x 2 (10 / 100 / 1000 Mbps)	RJ45 x 2 (10 / 100 / 1000 Mbps)
Serial ports	RS-485 / 2 x USB2.0 / 1 x USB3.0	RS-485 / 2 x USB2.0 / 1 x USB3.0	RS-485 / 2 x USB2.0 / 1 x USB3.0
Power supply	100-240V, 50-60 Hz	100-240V, 50-60 Hz	100-240V, 50-60 Hz
Operating temperature	-10 °C ~ 50 °C < 90 % RH	-10 °C ~ 50 °C < 90 % RH	-10 °C ~ 50 °C < 90 % RH
Dimensions (mm) HxWxD	90 x 436 x 445	143 x 437 x 483	143 x 437 x 483

NVRs and XVRs | ADVANCE Series

XVRs 5 IN 1

	AHDVR004A08A - AHDVR004A08ASL	AHDVR008A08A - AHDVR008A08ASL	AHDVR016A08A - AHDVR016A08ASL
Analogue inputs	4 CH	8 CH	16 CH
IP Cameras	2CH; 8MP@25/30fps (up to 6CH)	8CH; 8MP@25/30fps (up to 16CH)	8CH; 8MP@25/30fps (up to 16CH)
Recording resolution	8MP/5MP/4MP/3MP/1080P/720P/WD1	8MP/5MP/4MP/3MP/1080P/720P/WD1	8MP/5MP/4MP/3MP/1080P/720P/WD1
Analogue technologies supported	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS
Hybrid mode	Analogue+Network: 4CH Analogue (MAX 8MP) +2 IPC (MAX 8MP)	Analogue+Network: 8CH Analogue (MAX 8MP) +8 IPC (MAX 8MP)	Analogue+Network: 16CH Analogue (MAX 8MP) +8 IPC (MAX 8MP)
Video outputs	HDMI × 1: 3840 × 2160 / 1920 × 1080 / 1280 × 1024 / 1024 × 768 VGA × 1: 1920 × 1080 / 1280 × 1024 / 1024 × 768 SPOT CVBS x 1	HDMI × 1: 3840 × 2160 / 1920 × 1080 / 1280 × 1024 / 1024 × 768 VGA × 1: 1920 × 1080 / 1280 × 1024 / 1024 × 768 SPOT CVBS x 1	HDMI × 1: 3840 × 2160 / 1920 × 1080 / 1280 × 1024 / 1024 × 768 VGA × 1: 1920 × 1080 / 1280 × 1024 / 1024 × 768 SPOT CVBS x 1
Audio Inputs/Outputs	4CH input; 1CH output, RCA	8CH input; 1CH output, RCA	8CH input; 1CH output, RCA
Recording type	Dual Streaming	Dual Streaming	Dual Streaming
Video Compression	H.264/H.265	H.264/H.265	H.264/H.265
Recording Rate	Analogue CH: 4K@7fps (only available on CH1) 5MP/4MP/3MP@12fps 1080P/720P/WD1/D1@25fps IP cameras: 8MP/5MP/4MP/3MP/2MP@25fps	Analogue CH: 8MP@7fps 5MP/4MP/3MP@12fps 1080P/720P/WD1/D1@25fps IP cameras: 8MP/5MP/4MP/3MP/2MP@25fps	Analogue CH: 8MP@7fps 5MP/4MP/3MP@12fps 1080P/720P/WD1/D1@25fps IP cameras: 8MP/5MP/4MP/3MP/2MP@25fps
Synchronised playback	1@8MP/5MP/4MP/3MP/2MP, 4@sub stream	4@4K/5MP/4MP/3MP/2MP, 8@sub stream	4@4K/5MP/4MP/3MP/2MP, 8@sub stream
Video Analysis	Object abandoned/removed (only with IP cameras that support the function), scene change (only with IP cameras that support the function), line crossing, intrusion	Object abandoned/removed (only with IP cameras that support the function), scene change (only with IP cameras that support the function), line crossing, intrusion	Object abandoned/removed (only with IP cameras that support the function), scene change (only with IP cameras that support the function), line crossing, intrusion
HDD interface	1 SATA, (Maximum Hard Disk capacity 8TB)	2 SATA, (Maximum Hard Disk capacity 8TB)	2 SATA, (Maximum Hard Disk capacity 8TB)
HDD included	AHDVR004A08A: 1TB - AHDVR004A08ASL: No HDD	AHDVR008A08A: 1TB - AHDVR008A08ASL: No HDD	AHDVR016A08A: 1TB - AHDVR016A08ASL: No HDD
eSATA	E-SATA × 1	E-SATA × 1	E-SATA × 1
Bandwidth	Incoming 40Mbps, outgoing 40Mbps	Incoming 64Mbps, outgoing 96Mbps	Incoming 64Mbps, outgoing 96Mbps
Max simultaneous connections	5	6	10
Alarm Inputs/Outputs	4/1	8/2	16/4
Network interface	RJ45 x 1 (10 / 100 / 1000 Mbps)	RJ45 x 1 (10 / 100 / 1000 Mbps)	RJ45 x 1 (10 / 100 / 1000 Mbps)
Serial interface	RS-485 / 2x USB 2.0	RS-485 / 1x USB 2.0 / 1x USB 3.0	RS-485 / 1x USB 2.0 / 1x USB 3.0
Power supply	12VDC	100-240V, 50-60 Hz	100-240V, 50-60 Hz
Operating temperature	-10 °C ~ 50 °C < 90 % RH	-10 °C ~ 50 °C < 90 % RH	-10 °C ~ 50 °C < 90 % RH
Dimensions (mm) HxWxD	52 x 300 x 249	45 x 380 x 268	45 x 380 x 268

ACCESSORIES

USB ALARM BOX

USBOX01A

Compatible with all NVRs and XVRs, this can be used to expand alarm inputs and outputs (16 inputs and 6 outputs). The Plug & Play system is easy to install; when connected to the USB port with 5V power supply it is recognised immediately by the module.

- Alarm module with 16 inputs and 6 outputs
- Supports USB connection with 5V power supply
- Easy Plug &Play installation with XVR and NVR

HARD DISKS

WDSK324A	HARD DISK WD PURPLE, CAPACITY 1TB FOR CCTV
WDSK325A	HARD DISK WD PURPLE, CAPACITY 2TB FOR CCTV
WDSK327A	HARD DISK WD PURPLE, CAPACITY 4TB FOR CCTV
WDSK328A	HARD DISK WD PURPLE, CAPACITY 6TB FOR CCTV
WDSK329A	HARD DISK WD PURPLE, CAPACITY 8TB FOR CCTV

NVR XVR

ADVANCE VMS SOFTWARE

PLATFORM PRODUCT

COMELIT ADVANCE APP

MONITORS

SWITCHES

WI-FI TRANSMISSION

Advance VMS Software
ADVANCE Series

FEATURES

Advance VMS is the new integrated security management platform released by Comelit. The new platform combines interaction between devices capturing and managing videos (XVR, NVR, IP Cam), alarm devices, servers, IP-SAN, clients, monitors and TV WALLS. Suitable for all installations, it can connect different network devices and bring service to over 30,000 connected cameras. The software has: a powerful capacity for managing video surveillance, displaying cameras in real time, storing records, replaying recordings, downloading and backing up recordings, managing alarms, decoding on TV Walls, controlling the keypad, managing the entry and exit of vehicles and all Deep Video Analysis (DVA) functions.

Supported OS: Windows, Linux (*1), MAC (*2)
MySQL database
Client: web browser, IOS Android App
Supports Virtual machine
Supported protocols: ONVIF, RTSP
TV Wall management
Supports Deep Video Analysis
Parking management
Face Recognition
ANPR cameras
Online graphic maps (Google Maps)
Live streaming, playback, backup
Up to 30000 cameras
Unlimited clients

Max. number of channel accesses	30000 CH
Max. number of NVR accesses	1024 NVRs
Max. decoding capability	256 CH
Max. number of transfer server accesses	128 servers
Max. number of storage screen displays	128 servers (storage servers with transfer function)
Max. number of screen displays	100 CH, auto-switch supported
Max. number of plan views	20
Max. number of users	256 users

Network Storage
Server
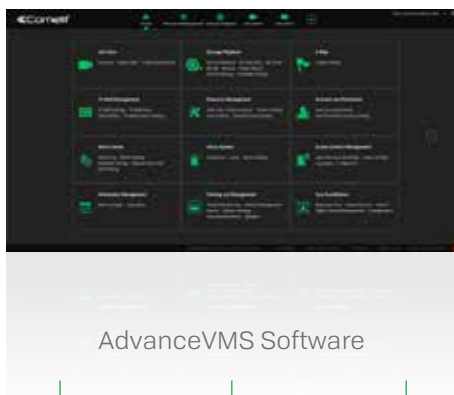Decoding Matrix TV Wall

IPC/XVR/NVR

PC Client
Web Browser
Mobile

Face Surveillance
Face Tracking

Behaviour
Deep Video Analisys

AdvanceVMS Software

People Counting

Parking Management

Thermal Solutions

Platform Product
ADVANCE Series

FEATURES

Server

- Authentication Server
- All-in-one Management Server
- Transfer Server

Network Storage up to 64 HDD

Devices with X86 architecture, these are capable of easily managing large volumes of recordings.
High performance, high reliability, redundant power supply and RAID Hardware are just a few of the main features of this equipment. The servers are Dual Giga Ethernet: the two LAN ports can work separately or together, supporting live streaming, so as to avoid the use of specific additional hardware. They also support RAID 0, 1, 5, 6 redundancy.

High Definition Decoding Matrix

Supports an unlimited number of display layouts with 24 monitors at once. The matrices can be configured in master / slave mode: the design is engineered to make operation, expansion and maintenance as easy as possible.

**For more information,
contact COMELIT directly.**

PLATFORM
PRODUCT

COMELIT
ADVANCE APP

MONITORS

SWITCHES

WI-FI
TRANSMISSION

Comelit Advance APP
ADVANCE Series

Comelit Advance

Comelit Advance is a free application for iOS and Android devices. It is compatible with all NVRs, XVRs and IP cameras in the Advance series. It offers users full control of the devices, allowing access to live view, playback and settings.

Ultimate customisation

Comelit Advance allows you to choose:
- the view you get on opening the APP (one specific device only, a favourite group of channels, the last layout shown)
- what happens when you open a push notification (live view of the channel, point of event playback, etc.)
- what type of playback events will be shown (all, motion, sensors, analysis)
- the desired viewing layout (choose between 8 different viewing modes)
- the video stream based on the network speed.

Optimum control

Devices can be set directly via the app with full configuration functions, as if you were actually at the installation site:
- adding faces to the face database
- backing up the recorded files
- speaking and listening via the supported devices
- activating alarms
- performing P2P connection

Plus:
- password gesture login
- playback bar with different colours according to the 'event
- PTZ and motorised lens control
- fisheye view

Content for sharing

Comelit Advance can be used to share snapshots or video clips, either live or in playback mode, via:
- applications installed on the smartphone such as WhatsApp, Facebook, WeChat, LinkedIn, Dropbox
- email
- QR code

Fisheye camera control

- Virtual PTZ: zoom forwards/backwards and move within the image for a 360° view
- Cylinder mode: 3D image that can be rotated and enlarged with a finger.

Add faces

The Smartphone camera can be used to take a photo and save the face in the NVR database.

Search by name

Faces can be searched by name. After entering a name, the corresponding face is selected and the terms for searching images and videos are set.

Search by image

You can take a photo and set the similarity and end/start time to search for a face and the corresponding videos.

Monitors | ADVANCE Series

MONITORS

	SMON185B	**MMON185A**	**MMON024A**
Type of display	18.5" LED	18.5" LED	23.8" LCD
Video inputs	1 DVI (with DVI to VGA adapter cable included)	1 VGA, 1 BNC, 1 HDMI	1 VGA, 1 HDMI
Resolution	HD	HD	FullHD
Framing ratio	16:9	16:9	16:9
Displayable colours (million)	16.7 (24 Bit)	16.7 (24 Bit)	16.7 (24 Bit)
Display brightness (cd/(m2))	250	250	250
Response time Tr/Td (ms) (msec)	3	3	8
Audio inputs/outputs	1/2 (Speakers, 2W)	1/2 (Speakers, 2W)	1/2 (Speakers, 2W)
Power supply	100-240V, 50-60 Hz, <20W	100-240V, 50-60 Hz, <30W	100-240V, 50-60 Hz, <30W
Operating temperature	0 °C ~ 40 °C < 85 % RH	0 °C ~ 40 °C < 85 % RH	0 °C ~ 40 °C < 85 % RH
Fixing type	VESA standard 100/100	VESA standard 100/100	VESA standard 75/75
Dimensions (mm) HxWxD	334 x 445 x 60	341 x 452 x 60	396 x 553 x 161

	HMON032B	HMON043B	HMON055B
Type of display	32" LCD	43" LED	55" LED
Video inputs	1 VGA, 1 HDMI	2 HDMI, 1 VGA, 1 BNC	1 VGA, 1 HDMI
Resolution	Full HD	Full HD	Full HD
Framing ratio	16:9	16:9	16:9
Displayable colours (million)	16.7 (24 Bit)	16.7 (24 Bit)	16.7 (24 Bit)
Display brightness (cd/(m2))	250	300	300
Response time Tr/Td (ms) (msec)	8	8	8
Audio inputs/outputs	1/1 (Speakers, 6W)	1/0 (Speakers, 5W)	1/1 (Speakers, 6W)
Power supply	100-240V, 50-60 Hz	100-240V, 50-60 Hz	100-240V, 50-60 Hz
Operating temperature	0 °C ~ 40 °C < 90 % RH	0 °C ~ 40 °C < 90 % RH	0 °C ~ 40 °C < 90 % RH
Fixing type	VESA standard 200/200	VESA standard 400/200	VESA standard
Dimensions (mm) HxWxD	737 x 446 x 55	979 x 581 x 63	1249 x 735 x 60

Switches | ADVANCE Series

POE SWITCHES

	IPSWP06N01A	IPSWP10N01A	IPSWP22N01A
Web Managed	-	-	-
LAN ports	6x10/100/1000Mbps RJ45 port	10x10/100/1000Mbps RJ45 port	16x10/100/1000Mbps RJ45 Port 2x10/100/1000Mbps Combo port 2x 10/100/1000Mbps RJ45 Port
Supported standards/protocols	IEEE802.3u/ab/az, IEEE802.3x (full-duplex)/back pressure (half-duplex)	IEEE802.3u/ab/az, IEEE802.3x (full-duplex)/back pressure (half-duplex)	IEEE802.3u/ab/az, IEEE802.3x (full-duplex)/back pressure (half-duplex)
PoE LAN ports	1- 4	1- 8	1- 16
Standard PoE	IEEE802.3af/at	IEEE802.3af/at	IEEE802.3af/at
Budget PoE	Total 65W, Max 32W for PoE port	Total 120W, Max 32W for PoE port	Total 250W, Max 32W for PoE port
SFP Slots	-	-	2x 1000Mbps SFP module
Switching capacity	12Gbps	20Gbps	40Gbps
Packet buffers	1.5 M bit	2M bit	4.1M bit
Forwarding Rate	8.9Mpps	13.4Mpps	29.8Mpps
MAC address table	4K, Automatic study, automatic updates	8K, Automatic study, automatic updates	8K, Automatic study, automatic updates
Maximum PoE transmission distance	Up to 250 m	Up to 250 m	Up to 250 m
Main functions	VLAN and CCTV Mode	VLAN and CCTV Mode	VLAN and CCTV Mode
Jumbo management	9216 Byte	9216 Byte	9216 Byte
Fan	FANLESS	1 FANS	2 FANS
LED indicators	PWR (Green), LNK/ACT (Green) PoE (Orange)	PWR (Green), LNK/ACT (Green) PoE (Orange)	PWR (Green), LNK/ACT (Green) PoE (Orange)
Power supply	DC 54.5V/1.32A	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz
Operating temperature	0°C ~ +40°C	0°C ~ +40°C	0°C ~ +40°C
Storage temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
Operating humidity	10%~90% RH without condensation	10%~90% RH without condensation	10%~90% RH without condensation
Storage humidity	5%~90% RH without condensation	5%~90% RH without condensation	5%~90% RH without condensation
Dimensions (mm) HxWxD	168 x 93 x 32	220 x 150 x 44	440 x 207 x 44
Weight	<1 kg	>1 kg	<5 kg
Type of finish	Metal	Metal	Metal
Colour	Black	Black	Black
Surge protection	Differential mode ±4KV, Common mode ±6KV	Differential mode ±4KV, Common mode ±6KV	Differential mode ±4KV, Common mode ±6KV
MTBF	>50000 hours	>50000 hours	>50000 hours
Electrostatic standard	Contact 4KV, air 6KV	Contact 4KV, air 6KV	Contact 6KV, air 8KV
Accessories	Power supply unit included	-	Rack fixing brackets

	IPSWP06N02A	IPSWR030A
Web Managed	-	-
LAN ports	4x10/100/1000Mbps RJ45 port	3x10/100/1000Mbps RJ45 Port
Supported standards/protocols	IEEE802.3u/ab/az, IEEE802.3x (full-duplex)/back pressure (half-duplex)	IEEE802.3af/at/ab/az, IEEE802.3x (full-duplex)/back pressure (half-duplex)
PoE LAN ports	1- 4	1- 2
Standard PoE	IEEE802.3af/at	IEEE802.3af/at
Budget PoE	Total 65W, Max 32W for PoE port	Power supply for 2 PoE devices (2 PSE ports - 30W max)
SFP Slots	2x 1000Mbps SFP module	-
Switching capacity	12Gbps	6Gbps
Packet buffers	1.5 M bit	-
Forwarding Rate	8.9Mpps	-
MAC address table	4K, Automatic study, automatic updates	Automatic learning, automatic update
Maximum PoE transmission distance	-	-
Main functions	-	-
Jumbo management	9216 Byte	-
Fan	FANLESS	FANLESS
LED indicators	PWR (Green), LNK/ACT (Green) PoE (Orange)	PWR, LNK/ACT
Power supply	DC: 48-57V	PoE
Operating temperature	-40°C ~ +75°C	-10°C ~ +40°C
Storage temperature	-40°C ~ +80°C	-
Operating humidity	10%~90% RH without condensation	<90%
Storage humidity	5%~90% RH without condensation	-
Dimensions (mm) HxWxD	165 x 147 x 54	134 x 77 x 27
Weight	<2 kg	<1 kg
Type of finish	Metal	-
Colour	Black	White
Surge protection	Differential mode ±4KV, Common mode ±6KV	-
MTBF	>100000 hours	-
Electrostatic standard	Contact 8KV, air 10KV	-
Accessories	-	-

Switches | ADVANCE Series

SWITCHES

	IPSWN08N01A	IPSWC160A	IPSWC242A
Web Managed	-	-	Yes
LAN ports	8 x10/100/1000Mbps RJ45 Port	16x10/100/1000Mbps RJ45 Port	24x10/100/1000Mbps RJ45 2SFP ports
Supported standards/protocols	IEEE802.3u/ab/az, IEEE802.3x (full-duplex)/back pressure (half-duplex)	IEEE802.3ab, IEEE802.3x (full-duplex)/back pressure (half-duplex), IEEE802.3az	IEEE802.3u/ab/az, IEEE802.3x (full-duplex)/back pressure (half-duplex)
PoE LAN ports	-	-	-
Standard PoE	-	-	-
Budget PoE	-	-	-
SFP Slots	-	-	2x 1000Mbps SFP module
Switching capacity	16Gbps	32Gbps	52Gbps
Packet buffers	1.5 M bit	-	-
Forwarding Rate	11.9Mpps	1.4Mpps	1.4Mpps
MAC address table	4K	8K, Automatic study, automatic updates	Automatic learning, automatic update
Maximum PoE transmission distance	-	-	-
Main functions	VLAN	-	-
Jumbo management	9216 Byte	9216 Byte	9216 Byte
Fan	FANLESS	1 FANS	2 FANS
LED indicators	PWR, LNK/ACT	PWR, LNK/ACT	PWR, LNK/ACT
Power supply	DC: 12V/0.5A	100 - 240 V / 50-60 Hz	100 - 240 V / 50-60 Hz
Operating temperature	0°C ~ +40°C	0°C ~ +40°C	0°C ~ +40°C
Storage temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
Operating humidity	10%~90% RH without condensation	10%~90% RH without condensation	10%~90% RH without condensation
Storage humidity	5%~90% RH without condensation	5%~90% RH without condensation	5%~90% RH without condensation
Dimensions (mm) HxWxD	140 x 76.7 x 28	280 x 180 x 44	280 x 180 x 44
Weight	<1 kg	<2 kg	<2 kg
Type of finish	Metal	Metal	Metal
Colour	Black	Black	Black
Surge protection	Difference module ±1KV, Common mode ±2KV	-	-
MTBF	>50000 hours	-	-
Electrostatic standard	Contact 6KV, air 8KV	-	-
Accessories	Power supply unit included	-	Rack fixing brackets

WI-FI Transmission | ADVANCE Series

BUILT-IN ANTENNAS

	CPE115A	**CPE135A**	**CPE155A**
Type	CPE 5 GHz Hyperlan, standard IEEE802.11a/n SISO - TDMA	CPE 5 GHz Hyperlan, standard IEEE802.11a/n MIMO - TDMA	CPE 5 GHz Hyperlan, standard IEEE802.11a/n/ac MIMO - TDMA
Transmission distance	Up to 3 km	Up to 3 km	Up to 3 km
Network interface	Gigabit LAN	Gigabit LAN	10/100 Mb/s LAN
Antenna	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity
Operating modes	Bridging/routing, firewall, QoS	Bridging/routing, firewall, QoS	Bridging/routing, firewall, QoS
IP rating	IP68	IP69	IP68
Absorption	4.5W	4.5W	4.5W
Type of power supply	poe 12-24vdc (External power supply 110/230Vac)	poe 12-24vdc (External power supply 110/230Vac)	poe 12-24vdc (External power supply 110/230Vac)
Wireless security	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP
Operating frequency (GHz)	4.9 - 5.85	4.9 - 5.85	4.9 - 5.85
Available band (Mbit/s)	15	40	50
DSSS modulation	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA
OFDM modulation	BPSK, QPSK, 16 QAM, 64 QAM, TDMA	BPSK, QPSK, 16 QAM, 64 QAM, TDMA	BPSK, QPSK, 16 QAM, 64 QAM, TDMA
Maximum transmission power (dBm)	23	30	30
Sensitivity@datarate	-93dBm @ 20MHz-MCS0, -68dBm @ 20MHz-MCS7	-96dBm@20MHz-MCS0, -78dBm@20MHz-MCS7	-96dBm@20MHz-MCS0, -72dBm@20MHz-MCS7
Coverage angle	11°	11°	11°
Transmission power management	TPC ERC/DEC(99)23 function	TPC ERC/DEC(99)23 function	TPC ERC/DEC(99)23 function
Channel management	DFS (Dynamic Frequency Selection), auto channel, selection, radar free, CEPT ERC 70-03	DFS, Auto, Selection, Radar free, CEPT ERC 70-03	DFS, Auto, Selection, Radar free, CEPT ERC 70-03
Management mode	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server
Bridge	Multiple bridge, RSTP/STP, Bridge firewall	Multiple bridge, RSTP/STP, Bridge firewall	Multiple bridge, RSTP/STP, Bridge firewall
Routing	RIP, OSPF, BGP, MPLS, mmE, HWMP+	RIP, OSPF, BGP, MPLS, mmE, HWMP+	RIP, OSPF, BGP, MPLS, mmE, HWMP+
VLAN	802.1q, multiple VLAN interface, inter VLAN routing, QinQ, VLAN	802.1q, multiple VLAN interface, inter VLAN routing, QinQ, VLAN	802.1q, multiple VLAN interface, inter VLAN routing, QinQ, VLAN
VPN	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP, oVPN, SSTP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP, oVPN, SSTP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP, oVPN, SSTP
SNMP	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB
QoS (p.1)	WMM, 802.1p, IP ToS RFC791, CBQ; L7; HTB; PCQ, RED, SFQ, FIFO	WMM, 802.1p, IP ToS RFC791, CBQ; L7; HTB; PCQ, RED, SFQ, FIFO	WMM, 802.1p, IP ToS RFC791, CBQ; L7; HTB; PCQ, RED, SFQ, FIFO
Safety	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server

WI-FI Transmission | ADVANCE Series

BUILT-IN ANTENNAS

	PTP125A	PTP135A	PTP155A
Wi-Fi type	5 GHz Hyperlan point-to-point system, standard IEEE802.11a/n SISO -TDMA	5 GHz Hyperlan point-to-point system, standard IEEE802.11a/n MIMO -TDMA	5 GHz Hyperlan point-to-point system, standard IEEE802.11a/n/ac MIMO -TDMA
Transmission distance	Up to 8 km	Up to 8 km	Up to 8 km
Network interface	10/100 Mb/s LAN	Gigabit LAN	/
Antenna	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity
Operating modes	Dynamic Mesh, static WDS Mesh, bridging, routing, firewall, QoS	Dynamic Mesh, static WDS Mesh, bridging, routing, firewall, QoS	Dynamic Mesh, static WDS Mesh, bridging, routing, firewall, QoS
IP rating	IP68	IP68	IP68
Absorption	11W	11W	11W
Type of power supply	POE802.3 af/at 48Vdc (External power supply 110/230Vac)	POE802.3 af/at 48Vdc (External power supply 110/230Vac)	POE802.3 af/at 48Vdc (External power supply 110/230Vac)
Wireless security	Mac filtering, WPA2 (EAP, AES, TKIP), DFS, TPC	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP
Operating frequency (GHz)	4.90-5.85 GHz	4.9 - 5.85	4.9 - 5.85
Available band (Mbit/s)	70	190	500
DSSS modulation	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA
OFDM modulation	BPSK, QPSK, 16 QAM, 64 QAM, TDMA	BPSK, QPSK,16 QAM, 64 QA, TDMA	BPSK, QPSK,16 QAM, 64 QA, TDMA
Maximum transmission power (dBm)	25	25	30
Sensitivity@datarate	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7	-96dBm@20MHz-MCS0, -72dBm@20MHz-MCS7
Coverage angle	11°	11°	11°
Transmission power management	TPC function	TPC function	TPC function
Channel management	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free
Management mode	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server
Bridge	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP
Routing	/	/	/
VLAN	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing
VPN	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP
SNMP	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB
QoS (p.1)	802.1p, IPToS, CBQ, layer 4-7 traffic shaping, HTB QoS system	802.1p, IPToS, CBQ, layer 4-7 traffic shaping, HTB QoS system	802.1p, IPToS, CBQ, layer 4-7 traffic shaping, HTB QoS system
Safety	Firewall limit. P2P, IP mac-address, protocol, radius server	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server

2 RADIO REPEATER

	RPT125A
Wi-Fi type	5 GHz Hyperlan Bridge Repeater, standard IEEE802.11a/n SISO -TDMA
Transmission distance	Up to 8 km
Network interface	Gigabit LAN
Antenna	OFDM or DSSS with NLOS capacity
Operating modes	Pure bridge, Mesh (static or dynamic), routing, firewall, QoS
IP rating	anti-vandal IP68
Absorption	11W
Type of power supply	
Wireless security	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP
Operating frequency (GHz)	4.9 - 5.85
Available band (Mbit/s)	/
DSSS modulation	DBPSK, DQPSK, CCK TDMA
OFDM modulation	BPSK, QPSK, 16 QAM, 64 QAM, TDMA
Maximum transmission power (dBm)	25
Sensitivity@datarate	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7
Coverage angle	9°
Transmission power management	TPC function
Channel management	DFS, Auto, Selection, Radar free
Management mode	Telnet client, SSH, Telnet server
Bridge	Multiple bridge interfaces, Layer 2 Filtering and QoS, RSTP/STP
Routing	/
VLAN	802.1q, multiple VLAN interface, inter VLAN routing
VPN	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP
SNMP	SNMP V1 client, MIB II, Bridge MIB
QoS (p.1)	802.1p, IPToS, CBQ queuing, layer 4-7 traffic shaping, HTB
Safety	Firewall limiting P2P, L7 mac-address filter, radius server
Accessories	**SETM090A** - **SETM120A** - **CAN001A** - **CAN002A** - **CAN003A** - **SAN001A**

WI-FI Transmission | ADVANCE Series

1 RADIO

	BASE105A	BASE105EA	BASE135A
Wi-Fi type	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n SISO - TDMA	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n SISO - TDMA	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n MIMO - TDMA
Transmission distance	Up to 25 km	Up to 25 km	Up to 25 km
Network interface	10/100 Mb/s LAN	10/100 Mb/s LAN	Gigabit LAN
Antenna	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity
Operating modes	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS
IP rating	anti-vandal IP68	IP67	anti-vandal IP68
Absorption	11W	11W	11W
Type of power supply	POE802.3af/at 48Vdc (External power supply 110/230Vac)	POE 12-24Vdc (External power supply 110/230Vac)	POE802.3af/at 48Vdc (External power supply 110/230Vac)
Wireless security	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP
Operating frequency (GHz)	4.9 - 5.85	4.9 - 5.85	4.9 - 5.85
Available band (Mbit/s)	70	70	190
DSSS modulation	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK - TDMA
OFDM modulation	BPSK, QPSK,16 QAM, 64 QA, TDMA	BPSK, QPSK,16 QAM, 64 QA, TDMA	BPSK, QPSK,16 QAM, 64 QA, TDMA
Maximum transmission power (dBm)	25	21	25
Sensitivity@datarate	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7	-95dBm @ 20MHz-MCS0, -77dBm @ 20MHz-	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7
Coverage angle	/	/	/
Transmission power management	TPC function	TPC function	TPC function
Channel management	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free
Management mode	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server
Bridge	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP
Routing	/	/	/
VLAN	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing
VPN	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP
SNMP	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB
QoS (p.1)	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB
Safety	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server
Accessories	**SET090A** - **SET120A** - **OMNI360A** - **CAN001A** - **CAN002A** - **CAN003A** - **SAN001A**	**SET090A** - **SET120A** - **OMNI360A** - **CAN001A** - **CAN002A** - **CAN003A** - **SAN001A**	**SETM090A** - **SETM120A** - **CAN001A** - **CAN002A** - **CAN003A** - **SAN001A**

	BASE135EA	**BASE155A**	**BASE155EA**
Wi-Fi type	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n MIMO - TDMA	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n/ac MIMO - TDMA	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n/ac MIMO - TDMA
Transmission distance	Up to 25 km	Up to 25 km	Up to 25 km
Network interface	10/100 Mb/s LAN	Gigabit LAN	10/100 Mb/s LAN
Antenna	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity
Operating modes	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS
IP rating	IP67	anti-vandal IP68	IP67
Absorption	11W	11W	11W
Type of power supply	POE 12-24Vdc (External power supply 110/230Vac)	POE802.3af/at 48Vdc (External power supply 110/230Vac)	POE 12-24Vdc (External power supply 110/230Vac)
Wireless security	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP
Operating frequency (GHz)	4.9 - 5.85	4.9 - 5.85	4.9 - 5.85
Available band (Mbit/s)	100	500	100
DSSS modulation	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA
OFDM modulation	BPSK, QPSK,16 QAM, 64 QA, TDMA	BPSK, QPSK, 256 QAM, TDMA	BPSK, QPSK, 256 QAM, TDMA
Maximum transmission power (dBm)	25	30	30
Sensitivity@datarate	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7	-92dBm @ 20MHz-MCS0, -72dBm @ 20MHz-MCS9	-92dBm @ 20MHz-MCS0, -72dBm @ 20MHz-MCS9
Coverage angle	/	/	/
Transmission power management	TPC function	TPC function	TPC function
Channel management	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free
Management mode	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server
Bridge	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP
Routing	/	/	/
VLAN	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing
VPN	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP
SNMP	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB
QoS (p.1)	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB
Safety	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server
Accessories	**SETM090A** - **SETM120A** - **CAN001A** - **CAN002A** - **CAN003A** - **SAN001A**	**SETM090A** - **SETM120A** - **CAN001A** - **CAN002A** - **CAN003A** - **SAN001A**	**SETM090A** - **SETM120A** - **CAN001A** - **CAN002A** - **CAN003A** - **SAN001A**

WI-FI Transmission | ADVANCE Series

2 RADIO

	BASE205A	BASE205EA	BASE235A
Wi-Fi type	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n SISO - TDMA	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n SISO - TDMA	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n MIMO - TDMA
Transmission distance	/	/	/
Network interface	Gigabit LAN	10/100 Mb/s LAN	Gigabit LAN
Antenna	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity	OFDM or DSSS with NLOS capacity
Operating modes	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS
IP rating	anti-vandal IP68	IP67	anti-vandal IP68
Absorption	11W	11W	11W
Type of power supply	POE802.3af/at 48Vdc (External power supply 110/230Vac)	POE 12-24Vdc (External power supply 110/230Vac)	POE802.3af/at 48Vdc (External power supply 110/230Vac)
Wireless security	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP
Operating frequency (GHz)	4.9 - 5.85	4.9 - 5.85	4.9 - 5.85
Available band (Mbit/s)	140	100	350
DSSS modulation	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA
OFDM modulation	BPSK, QPSK,16 QAM, 64 QA, TDMA	BPSK, QPSK,16 QAM, 64 QA, TDMA	BPSK, QPSK,16 QAM, 64 QA, TDMA
Maximum transmission power (dBm)	25	21	25
Sensitivity@datarate	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7	-95dBm @ 20MHz-MCS0, -77dBm @ 20MHz-MCS7	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7
Coverage angle	/	/	/
Transmission power management	TPC function	TPC function	TPC function
Channel management	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free
Management mode	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server
Bridge	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP
Routing	/	/	/
VLAN	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing
VPN	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP
SNMP	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB
QoS (p.1)	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB
Safety	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server
Accessories	SET090A - SET120A - OMNI360A - CAN001A - CAN002A - CAN003A - SAN001A	SET090A - SET120A - OMNI360A - CAN001A - CAN002A - CAN003A - SAN001A	SETM090A - SETM120A - CAN001A - CAN002A - CAN003A - SAN001A

2 RADIO

	BASE235EA
Wi-Fi type	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n MIMO - TDMA
Transmission distance	/
Network interface	10/100 Mb/s LAN
Antenna	OFDM or DSSS with NLOS capacity
Operating modes	Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS
IP rating	IP67
Absorption	11W
Type of power supply	POE 12-24Vdc (External power supply 110/230Vac)
Wireless security	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP
Operating frequency (GHz)	4.9 - 5.85
Available band (Mbit/s)	100
DSSS modulation	DBPSK, DQPSK, CCK TDMA
OFDM modulation	BPSK, QPSK,16 QAM, 64 QA, TDMA
Maximum transmission power (dBm)	25
Sensitivity@datarate	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7
Coverage angle	/
Transmission power management	TPC function
Channel management	DFS, Auto, Selection, Radar free
Management mode	Telnet client, SSH, Telnet server
Bridge	Multiple bridge interfaces, MAC monitored in real time; RSTP
Routing	/
VLAN	802.1q, multiple VLAN interface, inter VLAN routing
VPN	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP
SNMP	SNMP V1 client, MIB II, Bridge MIB
QoS (p.1)	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB
Safety	Firewall limiting P2P, L7 mac-address filter, radius server
Accessories	SETM090A - SETM120A - CAN001A - CAN002A - CAN003A - SAN001A

3 RADIO

	BASE305A	BASE305EA
	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n SISO - TDMA	5 GHz Hyperlan point-to-point/point-to-multipoint base station, standard IEEE802.11a/n SISO - TDMA
	/	/
	Gigabit LAN interface	10/100 Mb/s LAN interface
	Radio type OFDM or DSSS with NLOS capacity	Radio type OFDM or DSSS with NLOS capacity
	Operating modes: Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS	Operating modes: Dynamic Mesh, Static WDS Mesh, Bridging, Routing, firewall, QoS
	anti-vandal IP68	IP67
	11W	11W
	POE802.3af/at 48Vdc (External power supply 110/230Vac)	POE 12-24Vdc (External power supply 110/230Vac)
	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP	Mac filtering, WEP 64/128bit, WPA/WPA2 aes-ccm/tkip PSK/EAP
	4.9 - 5.85	4.9 - 5.85
	140	100
	DBPSK, DQPSK, CCK TDMA	DBPSK, DQPSK, CCK TDMA
	BPSK, QPSK,16 QAM, 64 QA, TDMA	BPSK, QPSK,16 QAM, 64 QA, TDMA
	25	25
	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7	-97dBm@20MHz-MCS0, -77dBm@20MHz MCS7
	/	/
	TPC function	TPC function
	DFS, Auto, Selection, Radar free	DFS, Auto, Selection, Radar free
	Telnet client, SSH, Telnet server	Telnet client, SSH, Telnet server
	Multiple bridge interfaces, MAC monitored in real time; RSTP	Multiple bridge interfaces, MAC monitored in real time; RSTP
	/	/
	802.1q, multiple VLAN interface, inter VLAN routing	802.1q, multiple VLAN interface, inter VLAN routing
	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP
	SNMP V1 client, MIB II, Bridge MIB	SNMP V1 client, MIB II, Bridge MIB
	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB	802.1p, IPToS RFC791, CBQ queuing Layer 4-7 traffic shaping, HTB
	Firewall limiting P2P, L7 mac-address filter, radius server	Firewall limiting P2P, L7 mac-address filter, radius server
	SET090A - SET120A - OMNI360A - CAN001A - CAN002A - CAN003A - SAN001A	SET090A - SET120A - OMNI360A - CAN001A - CAN002A - CAN003A - SAN001A

ACCESSORIES

SET090A

90° SECTORIAL ANTENNA, VERTICAL POLARIS., 5 GHZ
5 GHz sectorial antenna, 90° horizontal opening, 7° vertical opening, gain 17 dBi, maximum power 100W, vertical linear polarisation, impedance 50 Ohm, wind resistant up to 160 km/h, female type N connector, operating temperature -45°C/+65°C, dimensions (L x H x D) 175 x 470 x 60 mm.

SET120A

120° SECTORIAL ANTENNA, VERTICAL POLARIS., 5 GHZ
5 GHz sectorial antenna, 120° horizontal opening, 7° vertical opening, gain 16 dBi, maximum power 100W, vertical linear polarisation, impedance 50 Ohm, wind resistant up to 160 km/h, female type N connector, operating temperature from -45°C to +65°C, dimensions (L x H x D) 175 x 470 x 60 mm.

OMNI360A

360° OMNIDIRECTIONAL ANTENNA, VERTICAL POLARIS., 5 GHZ
5 GHz omnidirectional antenna, 360° horizontal opening, 7° vertical opening, gain 12 dBi, maximum power 100W, vertical linear polarisation, impedance 50 Ohm, wind resistant up to 160 km/h, female type N connector, operating temperature from -45°C to +65°C, dimensions (ø x H) 20 x 700 mm.

SETM090A

90° SECTORIAL MIMO ANTENNA, DUAL POLARIS., 5 GHZ
5 GHz sectorial MIMO antenna, 90° horizontal opening, 7° vertical opening, gain 17 dBi, maximum power 100W, vertical and horizontal linear polarisation, impedance 50 Ohm, wind resistant up to 160 km/h, 2 female type N connectors, operating temperature from -45°C/+65°C, dimensions (L x H x D) 175 x 470 x 60 mm.

SETM120A

120° SECTORIAL MIMO ANTENNA, DUAL POLARIS., 5 GHZ
5 GHz sectorial MIMO antenna, 120° horizontal opening, 7° vertical opening, gain 16 dBi, maximum power 100W, vertical and horizontal linear polarisation, impedance 50 Ohm, wind resistant up to 160 km/h, 2 female type N connectors, operating temperature from -45°C to +65°C, dimensions (L x H x D) 175 x 470 x 60 mm.

CAN001A

ANTENNA CABLE, LENGTH 1M
RF cable with N-type connectors, length 1m.

CAN002A

ANTENNA CABLE, LENGTH 2M
RF cable with N-type connectors, length 2m.

CAN003A

ANTENNA CABLE, LENGTH 3M
RF cable with N-type connectors, length 3m.

SAN001A

SPARK GAP
Gas discharge tube surge arrestor, N-type connectors, frequency 0-6 GHz.

INDEX - 1 OF 2

CMA-BA	ADVANCE BIG CEILING BACKPLATE	55
CMA-FA	ADVANCE FISHEYE CEILING BACKPLATE	55
CMA-KTBBA	ADVANCE CEILING BACKPLATE	54
CMA-PTZA	ADVANCE PTZ CEILING BACKPLATE	55
CMA-TVA	ADVANCE CEILING BACKPLATE	54
COMELIT ADVANCE APP	CCTV APP FOR ADVANCE SERIES	66
CPE115A	CPE 5GHZ,3KM,SISO 802/11A/N, SINGLE POL.	73
CPE135A	CPE 5GHZ,3KM,MIMO 802/11A/N, DUAL POL.	73
CPE155A	CPE 5GHZ,3KM,MIMO 802/11A/N/AC, DUAL POL.	73
HMON032B	32" LED MONITOR, VGA, HDMI, BNC, AUDIO, FULL-HD	69
HMON043B	43" FULL-HD MONITOR, VGA, HDMI, BNC, AUDIO	69
HMON055B	55" LED MONITOR, VGA, HDMI, BNC, AUDIO, FULL-HD	69
IPBCAMA02FA	BULLET IP CAMERA 2MP 2.8MM	37
IPBCAMA02Z01A	BIG BULLET IP CAMERA 2MP 2.8-12MM	37
IPBCAMA02Z03A	BIG BULLET IP CAMERA 2MP 5-50MM	47
IPBCAMA02ZA	BULLET IP CAMERA 2MP 2.8-12MM	37
IPBCAMA04FA	BULLET IP CAMERA 4MP 2.8MM	39
IPBCAMA04Z01A	BIG BULLET IP CAMERA 4MP 2.8-12MM	39
IPBCAMA04ZA	BULLET IP CAMERA 4MP 2.8-12MM	39
IPBCAMA05Z02A	BULLET IP CAMERA 5MP 2.8-12MM	42
IPBCAMA08FA	BULLET IP CAMERA 8MP 2.8MM	41
IPBCAMA08Z01A	BIG BULLET IP CAMERA 8MP 2.8-12MM	41
IPBCAMA08ZA	BULLET IP CAMERA 8MP 2.8-12MM	41
IPFCAMA06FA	FISHEYE IP CAMERA, 6M 1.1MM	44
IPKCAMA02ZA	VANDALDOME IP CAMERA 2MP 2.8-12MM	36
IPKCAMA04ZA	VANDALDOME IP CAMERA 4MP 2.8-12MM	38
IPKCAMA08ZA	VANDALDOME IP CAMERA 8MP 2.8-12MM	40
IPLPRA02ZA	ANPR CAMERA 2MP 7-22MM	43
IPNVR004A08PA	NVR 4CH 8MP POE HDD 1TB	58
IPNVR004A08PASL	NVR 4CH 8MP POE NO HDD	58
IPNVR008A08PA	NVR 8CH 8MP POE HDD 1TB	58

INDEX - 2 OF 2

JBA-TVA	CONNECTION BOX FOR VARI. ADVANCE TURRET IP66	**54**
MMON024A	24" LED MONITOR, VGA, HDMI, AUDIO	**68**
MMON185A	18.5" LED MONITOR, VGA, BNC, HDMI, AUDIO, HD	**68**
OMNI360A	360° OMNIDIRECTIONAL ANTENNA, VERTICAL POL., 5GHZ	**80**
PMA-A	ADVANCE POLE-MOUNTING BACKPLATE	**54-55**
PTP125A	TRANSMITTER 5GHZ,8KM,SISO 802.11A/N, SINGLE POL.	**74**
PTP135A	TRANSMITTER 5GHZ,8KM,MIMO 802.11A/N, DUAL POL.	**74**
PTP155A	TRANSMITTER 5GHZ,8KM,MIMO 802.11A/N, DUAL POL.	**74**
RPT125A	BRIDGE REPEATER, 8KM, SISO 802.11A/N	**75**
SAN001A	SPARK GAP	**81**
SET090A	90° SECTOR ANTENNA, VERTICAL POL., 5GHZ	**80**
SET120A	120° SECTOR ANTENNA, VERTICAL POL., 5GHZ	**80**
SETM090A	90° MIMO SECTOR ANTENNA, DUAL POL., 5GHZ	**80**
SETM120A	120° MIMO SECTOR ANTENNA, DUAL POL., 5GHZ	**81**
SMON185B	18.5" LED MONITOR, VGA, AUDIO, HD	**68**
THNVR008A08PA	NVR 8CH POE 8MP THERMAL DETECTION, 1TB HDD	**53**
THNVR008A08PASL	NVR 8CH POE 8MP THERMAL DETECTION, NO HDD	**53**
USBOX01A	ALARM EXPANSION USB BOX	**61**
WDSK324A	WD PURPLE HARD DISK, CAPACITY 1TB FOR CCTV	**61**
WDSK325A	WD PURPLE HARD DISK, CAPACITY 2TB FOR CCTV	**61**
WDSK327A	WD PURPLE HARD DISK, CAPACITY 4TB FOR CCTV	**61**
WDSK328A	WD PURPLE HARD DISK, CAPACITY 6TB FOR CCTV	**61**
WDSK329A	WD PURPLE HARD DISK, CAPACITY 8TB FOR CCTV	**61**
WICAMA02FA	CUBE WIFI CAMERA, 2MP 2.8MM	**46**
WMA-BA	ADVANCE BIG WALL BACKPLATE	**55**
WMA-FA	ADVANCE FISHEYE WALL BACKPLATE	**55**
WMA-KTBBA	ADVANCE WALL BACKPLATE	**54**
WMA-TVA	ADVANCE WALL BACKPLATE	**54**

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