AHD 100
THE NEW RANGE OF PROFESSIONAL VIDEO SURVEILLANCE CAMERAS AND DVRS
The AHD100 range features high-performance solutions for use in the most common video surveillance installations. The AHD series by Comelit guarantees high-resolution video feeds up to 5 MPX. It is the ideal solution, whether you are creating a new installation or revamping an old system: the use of a coaxial or UTP cable means it is actually possible to utilise existing wiring when updating the system, either partially or in full. Cameras in the AHD100 series can be installed in a wide range of housings - bullet, turret, Minidome and PTZ dome - and used in conjunction with either fixed or varifocal lenses. The varifocal lens cameras have motorised lenses with autofocus, meaning the installer can avoid manual adjustment (thereby making the camera installation process easier). Plus, they adapt to the various technologies available in the AHD, TVI and CVI market. The DVRs in the AHD100 series are also capable of managing resolutions up to 4 Megapixels and are available with 4, 8 and 16 BNC inputs and the same number of IP channels (Hybrid). They all are connected to the free Comelit DNS service and equipped with the plug & play function (no configuration), which is particularly handy during the installation process as you simply need to connect the cameras to the DVR and scan the QR code using the Comelit View 100 APP to connect without router configuration. The Comelit View 100 APP for smartphone and tablet (iOS and Android systems) allows you to check the system remotely, view live and multi-screen images, save them locally and manage any PTZ cameras installed.
RESIDENTIAL
Offers remote monitoring of the events taking place inside or outside your home, via PC or mobile device. The infrared LEDs even make it possible to capture images in total darkness.

COMMERCIAL OPERATIONS
The losses resulting from criminal activity can lead to enormous financial costs and affect relationships with customers.

CAR PARKS
Video surveillance systems are an increasingly effective deterrent against vandalism and criminal acts, and also allow system monitoring to check for faults or malfunctioning while providing access control.
ADVANTAGES OF THE RANGE
AHD100 SERIES DVR

5-IN-1 HYBRID DVR

The new AHD100 series DVRs are capable of managing up to 5 technologies with a resolution of up to 4 Megapixels:

- AHD
- TVI
- CVI
- CVBS
- IP

FUNCTIONAL AND INTUITIVE GUI

DUAL STREAMING RECORDING

The devices are capable of emitting two video streams - with different resolutions - at the same time. This function allows you to view high-quality images in networks with high bandwidth and lower quality images in networks with limited bandwidth (smartphones).
The DVRs offer the option of doubling their channels when used in conjunction with IP cameras. The 4-channel model also has 8 BNC inputs to double the number of analogue channels if cameras with a resolution of up to 3 MP are used, meaning that up to 16 cameras (8 analogue + 8 IP, max. 3 MP) can be managed.

- AHDVR104A: 4 BNC and 4 IPC (4 Mpx) or 8 BNC (max. 3Mpx) and 8 IPC (3 Mpx)
- AHDVR108A: 8 BNC and 8 IPC (4 Mpx)
- AHDVR106A: 16 BNC and 8 IPC (4 Mpx)
ADVANTAGES OF THE RANGE

AHD 100 SERIES CAMERAS

Cameras with ultra-sensitive CMOS sensor, for high-quality images even with feeds in infrared fields. Resolution up to 5 MP, with motorised zoom and autofocus, protection rating up to IP66, anti-vandal protection rating IK10, AHD/CVI/TVI video outputs. They use the same accessories as the IP100 range.

5MP RESOLUTION

Optimal resolution for viewing even the smallest details.

SMARTFOCUS

The motorised lens means that the autofocus always works perfectly, in any environmental conditions and without requiring manual intervention.

D-WDR

DIGITAL WIDE DYNAMIC RANGE - balanced image, even in situations with strong backlighting.
PTZ WITH UP TO 20X ZOOM

20x Optical Zoom night vision up to 150 m.

CAMERA MOVEMENT ON THREE AXES
LED ARRAYS UP TO 50 M
SUNSHIELD
SMD LED
SMART IR
MOTORISED LENS
OSD MENU
UTC CONTROL

ACCESSORIES
ADVANTAGES OF THE RANGE
SOFTWARE AND COMELIT VIEW 100 APP

LIVE STREAMING & PLAYBACK

Manages several monitors at once.

GRAPHIC MAPS AND SUB-MAPS

Option of adding connected interactive graphic maps and sub-maps with cameras in position.

PLAYBACK/BACKUP

- Search calendar
- Search by type of video streaming
- Search by type of recording (Normal, Motion, Alarm)
- View settings
- Playback bar with associated channel
- Backup function
**Connection**

- Scan and automatic addition of devices on the local network.
- Device recording via P2P and QR code, IP address and Comelit DNS.

**Viewing of Live Images**

- Live multiscreen streaming—single channel
- Option of enabling two-way audio
- Switching between Main stream and Sub stream
- Capture screenshot
- Manual recording

**Playback**

- Recording playback
- Option of activating audio
- Capture screenshot
- Manual recording
APPLICATION EXAMPLES
AHD100

APPLICATION EXAMPLE
HOUSE

VIDEO SURVEILLANCE SYSTEM CONSISTING OF:
• 4 cameras for monitoring the outer perimeter;
• Video recorder
• Monitor for viewing images.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHCAM105A</td>
<td>AHD BULLET camera: 4-5 MP, 3.6 MM, IR 20 M, IP66</td>
<td>4</td>
</tr>
<tr>
<td>AHDVR104A-1TBS</td>
<td>AHD DVR: 4 CH 4 MP / 8 CH 3 MP, 1TB HDD</td>
<td>1</td>
</tr>
<tr>
<td>SMON185A</td>
<td>18.5&quot; LED MONITOR, VGA, AUDIO, HD</td>
<td>1</td>
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</table>
APPLICATION EXAMPLE
SERVICE STATION

VIDEO SURVEILLANCE SYSTEM CONSISTING OF:
- 4 IP cameras for monitoring pumps and access/exit ramps;
- 4 AHD cameras for monitoring the shop and till area;
- Video recorder
- Monitor for viewing images;
- Network switch.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>AHCAM175ZA</td>
<td>AHD MINDOME CAMERA: 4-5 MP, MOTORISED ZOOM 2.8-12 MM</td>
<td>4</td>
</tr>
<tr>
<td>IPCAM164A</td>
<td>IP BULLET CAMERA: 4 MP, 2.8-12 MM, IR 50 M, IP66</td>
<td>4</td>
</tr>
<tr>
<td>AHDVR108A-1TBS</td>
<td>AHD DVR: 8 INPUTS, 4 MP, 1TB HDD</td>
<td>1</td>
</tr>
<tr>
<td>IPSWP080A</td>
<td>SWITCH, 8 POE GIGABIT PORTS</td>
<td>1</td>
</tr>
<tr>
<td>SMON185A</td>
<td>18.5&quot; LED MONITOR, VGA, AUDIO, HD</td>
<td>1</td>
</tr>
</tbody>
</table>
APPLICATION EXAMPLES
AHD100

APPLICATION EXAMPLE
STORE

VIDEO SURVEILLANCE SYSTEM CONSISTING OF:
• 2 minidome cameras for monitoring the interior;
• 2 bullet cameras for monitoring entrances;
• Video recorder
• Monitor for viewing images.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHCAM105A</td>
<td>AHD BULLET camera: 4-5 MP, 3.6 MM, IR 20 M, IP66</td>
<td>2</td>
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<tr>
<td>AHCAM125A</td>
<td>AHD MINDOME CAMERA: 4-5 MP, 3.6 MM, IR 30 M, IP65</td>
<td>2</td>
</tr>
<tr>
<td>AHDVR104A-1TBS</td>
<td>AHD DVR: 4 CH 4 MP / 8 CH 3 MP, 1TB HDD</td>
<td>1</td>
</tr>
<tr>
<td>SMON185A</td>
<td>18.5” LED MONITOR, VGA, AUDIO, HD</td>
<td>1</td>
</tr>
</tbody>
</table>
APPLICATION EXAMPLE
CAR PARK

VIDEO SURVEILLANCE SYSTEM CONSISTING OF:
• 3 IP cameras for monitoring the ramps and attendant booth;
• 3 AHD PTZ cameras for monitoring the car park;
• Video recorder
• Monitor for viewing images;
• Network switch.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPTZ120A</td>
<td>AHD PTZ Camera: FULL-HD, ZOOM 20X</td>
<td>3</td>
</tr>
<tr>
<td>IPCAM164A</td>
<td>IP Bullet Camera: 4 MP, 2.8-12 MM, IR 50 M, IP66</td>
<td>3</td>
</tr>
<tr>
<td>AHDVR108A-1TBS</td>
<td>AHD DVR: 8 INPUTS, 4 MP, 1TB HDD</td>
<td>1</td>
</tr>
<tr>
<td>IPSWP080A</td>
<td>SWITCH, 8 POE GIGABIT PORTS</td>
<td>1</td>
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<tr>
<td>SMON185A</td>
<td>18.5” LED MONITOR, VGA, AUDIO, HD</td>
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</table>
## CAMERAS

<table>
<thead>
<tr>
<th>Main features</th>
<th>AHCAM105A</th>
<th>AHCAM125A</th>
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<tbody>
<tr>
<td>Camera sensor</td>
<td>1/2.7” CMOS</td>
<td>1/2.7” CMOS</td>
</tr>
<tr>
<td>Effective pixels HxV (px)</td>
<td>2592x1944</td>
<td>2592x1944</td>
</tr>
<tr>
<td>Camera lens</td>
<td>3.6mm</td>
<td>3.6mm</td>
</tr>
<tr>
<td>Horizontal FoV (°)</td>
<td>79</td>
<td>79</td>
</tr>
<tr>
<td>Vertical FoV (°)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic shutter (s)</td>
<td>1/25-1/50000</td>
<td>1/25-1/50000</td>
</tr>
<tr>
<td>Camera optical zoom</td>
<td>4x</td>
<td>4x</td>
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<tr>
<td>Sensitivity (lux)</td>
<td>0 (led IR ON)</td>
<td>0 (led IR ON)</td>
</tr>
<tr>
<td>Signal/noise ratio (dB)</td>
<td>&gt; 50 (AGC OFF)</td>
<td>&gt; 50 (AGC OFF)</td>
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<tr>
<td>IR filter</td>
<td>Mechanical</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Video output</td>
<td>AHD/TVI/CVI</td>
<td>AHD/TVI/CVI</td>
</tr>
<tr>
<td>Video resolution (H x V - pixel)</td>
<td>AHD: 4/5MP; TVI: 5MP; CVI: 4MP</td>
<td>AHD: 4/5MP; TVI: 5MP; CVI: 4MP</td>
</tr>
</tbody>
</table>

| Software/firmware specifications | | |
|---------------------------------|| |
| Frame rate | 2560x1440@30fps; 2592x1944@12.5fps | 2560x1440@30fps; 2592x1944@12.5fps |

| Functions | | |
|-----------|| |
| Back light compensation (BLC) | BLC | BLC |
| Digital effects | LSC, Anti-flicker (50/60Hz), Mirror (Horizontal, Vertical, 180° rotation) | LSC, Anti-flicker (50/60Hz), Mirror (Horizontal, Vertical, 180° rotation) |
| Wide Dinamic Range WDR (dB) | D-WDR | D-WDR |
| Enhanced DNR control | 2DNR, 3DNR | 2DNR, 3DNR |
| White balance control | AWC, ATW | AWC, ATW |
| Automatic gain control (AGC) | 1-15 | 1-15 |

| Hardware specifications | | |
|-------------------------|| |
| No. IR LEDs / Max. distance (m) | 16 led SMD / 30m | |
| Maximum cable distance RG59 / UTP (m) | 300 / 100 | 300 / 100 |
| Vandal Resistant rating (IK code) | IP66 | IP65 |
| IP protection rating | | |
| 3-axis adjustment | Yes | Yes |

<p>| General data | | |
|--------------|| |
| Power supply voltage (VDC) | 12 | 12 |
| Max absorption (W) | 5 | 5 |
| Diameter (mm) | 93 | 117 |
| Height (mm) | 148 | 83.3 |
| Width (mm) | 121 | | |
| Depth (mm) | 235 | 86 |
| Weight (g) | 1220 | 675 |
| Type of finish | Die-cast aluminium | Die-cast aluminium |
| Housing type | Bullet | Minidome |
| Colour | Dark gray | White |
| Operating temperature (°C) | -20-55 | -20-55 |
| RH max operating humidity (%) | 90 | 90 |</p>
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<thead>
<tr>
<th>Model</th>
<th>AHCAM175A</th>
<th>AHCAM165ZA</th>
<th>AHCAM175ZA</th>
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<td>1/2.7'' CMOS</td>
<td>1/2.7'' CMOS</td>
<td>1/2.7'' CMOS</td>
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<tr>
<td>Effective pixels</td>
<td>HxV (px) 2592x1944</td>
<td>2592x1944</td>
<td>2592x1944</td>
<td>2592x1944</td>
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<tr>
<td>Camera lens</td>
<td>3.6mm</td>
<td>3.6mm</td>
<td>2.8-12mm, motorized, autofocus</td>
<td>2.8-12mm, motorized, autofocus</td>
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<tr>
<td>Horizontal FoV (°)</td>
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<td>Vertical FoV (°)</td>
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<td>21-47</td>
<td>21-47</td>
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<td>1/25-1/50000</td>
<td>1/25-1/50000</td>
<td>1/25-1/50000</td>
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<tr>
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<td>4x</td>
<td>4x</td>
<td>4x</td>
</tr>
<tr>
<td>Sensitivity (lux)</td>
<td>0 (led IR ON)</td>
<td>0 (led IR ON)</td>
<td>0 (led IR ON)</td>
<td>0 (led IR ON)</td>
</tr>
<tr>
<td>Signal/noise ratio (dB)</td>
<td>&gt; 50 (AGC OFF)</td>
<td>&gt; 50 (AGC OFF)</td>
<td>&gt; 50 (AGC OFF)</td>
<td>&gt; 50 (AGC OFF)</td>
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<td>IR filter</td>
<td>Mechanical</td>
<td>Mechanical</td>
<td>Mechanical</td>
<td>Mechanical</td>
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<tr>
<td>Video resolution (H x V - pixel)</td>
<td>AHD: 4/5MP; TVI: 5MP; CVI: 4MP</td>
<td>AHD: 4/5MP; TVI: 5MP; CVI: 4MP</td>
<td>AHD: 4/5MP; TVI: 5MP; CVI: 4MP</td>
<td>AHD: 4/5MP; TVI: 5MP; CVI: 4MP</td>
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<tr>
<td>Software/firmware specifications</td>
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<td></td>
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<td></td>
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<tr>
<td>Frame rate</td>
<td>2560x1440@30fps; <a href="mailto:2592x1944@12.5fps">2592x1944@12.5fps</a></td>
<td>2560x1440@30fps; <a href="mailto:2592x1944@12.5fps">2592x1944@12.5fps</a></td>
<td>2560x1440@30fps; <a href="mailto:2592x1944@12.5fps">2592x1944@12.5fps</a></td>
<td>2560x1440@30fps; <a href="mailto:2592x1944@12.5fps">2592x1944@12.5fps</a></td>
</tr>
<tr>
<td>Functions</td>
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<td></td>
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</tr>
<tr>
<td>Back light compensation (BLC)</td>
<td>BLC</td>
<td>BLC</td>
<td>BLC</td>
<td>BLC</td>
</tr>
<tr>
<td>Digital effects</td>
<td>LSC, Anti-flicker (50/60Hz), Mirror (Horizontal, Vertical, 180° rotation)</td>
<td>LSC, Anti-flicker (50/60Hz), Mirror (Horizontal, Vertical, 180° rotation)</td>
<td>LSC, Anti-flicker (50/60Hz), Mirror (Horizontal, Vertical, 180° rotation)</td>
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<td>2DNR, 3DNR</td>
<td>2DNR, 3DNR</td>
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<td>AWC, ATW</td>
<td>AWC, ATW</td>
<td>AWC, ATW</td>
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<td>Automatic gain control (AGC)</td>
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<td>1-15</td>
<td>1-15</td>
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<tr>
<td>Hardware specifications</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. IR LEDs / Max. distance (m)</td>
<td>16 led SMD / 30m</td>
<td>2 led arrays / 50m</td>
<td>1 led IR-III / 15m</td>
<td>16 led SMD / 30m</td>
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<tr>
<td>Maximum cable distance RG59 / UTP (m)</td>
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<td>300 / 100</td>
<td>300 / 100</td>
<td>300 / 100</td>
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<td>IP66</td>
<td>IP65</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Power supply voltage (VDC)</td>
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<td>Width (mm)</td>
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<td>121</td>
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<td>235</td>
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<td>Depth (mm)</td>
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<td>185.5</td>
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<td>Weight (g)</td>
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<td>Housing type</td>
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<td>Minidome</td>
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<td>Colour</td>
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<tr>
<td>Operating temperature (°C)</td>
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<td>90</td>
<td>-20-55</td>
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<tr>
<td>RH max operating humidity (%)</td>
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### Main Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>AHPTZ110A</th>
<th>AHPTZ120A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera sensor</td>
<td>1/2.8'' CMOS 2.15M Sony Starvis Technology</td>
<td>1/2.8'' CMOS 2.15M Sony Starvis Technology</td>
</tr>
<tr>
<td>Camera lens</td>
<td>4.7-47mm, autofocus</td>
<td>4.7-94mm, autofocus</td>
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<tr>
<td>Horizontal FoV (°)</td>
<td>6.43-60.9</td>
<td>3.2-55.8</td>
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<tr>
<td>Vertical FoV (°)</td>
<td>4.1-40.1</td>
<td>1.8-32.2</td>
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<tr>
<td>Camera optical zoom</td>
<td>10x</td>
<td>20x</td>
</tr>
<tr>
<td>Signal/noise ratio (dB)</td>
<td>&gt; 55 (AGC OFF)</td>
<td>&gt; 55 (AGC OFF)</td>
</tr>
<tr>
<td>IR filter</td>
<td>Mechanical</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Video output</td>
<td>AHD</td>
<td>AHD</td>
</tr>
<tr>
<td>Video resolution (H x V - pixel)</td>
<td>1920x1080 (Full-HD 1080p)</td>
<td>1920x1080 (Full-HD 1080p)</td>
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### Software/Firmware Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>AHPTZ110A</th>
<th>AHPTZ120A</th>
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<tbody>
<tr>
<td>Frame rate</td>
<td>30fps</td>
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### Functions

<table>
<thead>
<tr>
<th>Feature</th>
<th>AHPTZ110A</th>
<th>AHPTZ120A</th>
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</thead>
<tbody>
<tr>
<td>Main functions</td>
<td>256 Preset, 8 Tour, 4 Pattern, Scan 360°</td>
<td>256 Preset, 8 Tour, 4 Pattern, Scan 360°</td>
</tr>
<tr>
<td>Back light compensation (BLC)</td>
<td>BLC</td>
<td>BLC</td>
</tr>
<tr>
<td>Digital effects</td>
<td>Mirror (Horizontal, Vertical, 180° rotation), Anti-flicker (50/60Hz)</td>
<td>Mirror (Horizontal, Vertical, 180° rotation), Anti-flicker (50/60Hz)</td>
</tr>
<tr>
<td>Wide Dynamic Range WDR (dB)</td>
<td>WDR</td>
<td>WDR</td>
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<tr>
<td>Enhanced DNR control</td>
<td>3DNR</td>
<td>3DNR</td>
</tr>
<tr>
<td>White balance control</td>
<td>ATW, AWB, Indoor, Outdoor</td>
<td>ATW, AWB, Indoor, Outdoor</td>
</tr>
<tr>
<td>Automatic gain control (AGC)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
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### Hardware Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>AHPTZ110A</th>
<th>AHPTZ120A</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. IR LEDs / Max. distance (m)</td>
<td>6 led / 80m (Smart IR)</td>
<td>2 x laser led + 6 led / 150m (Smart IR)</td>
</tr>
<tr>
<td>Maximum cable distance RG59 / UTP (m)</td>
<td>300 / 100</td>
<td>300 / 100</td>
</tr>
<tr>
<td>Wall support</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>IP protection rating</td>
<td>IP66</td>
<td>IP66</td>
</tr>
<tr>
<td>RS-485 control</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Analogue video output</td>
<td>CVBS (BNC - 1 Vpp/75 ohm)</td>
<td>CVBS (BNC - 1 Vpp/75 ohm)</td>
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### General Data

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<tr>
<th>Feature</th>
<th>AHPTZ110A</th>
<th>AHPTZ120A</th>
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<tbody>
<tr>
<td>Power supply voltage (VDC)</td>
<td>24</td>
<td>24</td>
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<tr>
<td>Max absorption (W)</td>
<td>30</td>
<td>36</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>149</td>
<td>216</td>
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<tr>
<td>Height (mm)</td>
<td>291</td>
<td>380</td>
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<tr>
<td>Weight (g)</td>
<td>4000</td>
<td>7000</td>
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<tr>
<td>Type of finish</td>
<td>Die-cast aluminium</td>
<td>Die-cast aluminium</td>
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<td>Housing type</td>
<td>Speed dome</td>
<td>Speed dome</td>
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<tr>
<td>Colour</td>
<td>White</td>
<td>White</td>
</tr>
<tr>
<td>Operating temperature (°C)</td>
<td>-30-50</td>
<td>-30-50</td>
</tr>
<tr>
<td>RH max operating humidity (%)</td>
<td>90</td>
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</tr>
<tr>
<td>Supplied accessories</td>
<td>Power supply, wall mounting bracket</td>
<td>Power supply, wall mounting bracket</td>
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### Main Features

<table>
<thead>
<tr>
<th>DVR</th>
<th>AHDVR104A</th>
<th>AHDVR108A</th>
<th>AHDVR106A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video inputs</strong></td>
<td>8@3MP (BNC)+8@3MP (IP) / 4@4MP (BNC)+4@4MP (IP)</td>
<td>8@4MP (BNC)+8@4MP (IP)</td>
<td>16@4MP (BNC)+8@4MP (IP)</td>
</tr>
<tr>
<td><strong>Main video output</strong></td>
<td>1 (HDMI), 1 (VGA), 1280x1024@60Hz, 1920x1080@60Hz</td>
<td>1 (HDMI), 1 (VGA), 1280x1024@60Hz, 1920x1080@60Hz</td>
<td>1 (HDMI), 1 (VGA), 1280x1024@60Hz, 1920x1080@60Hz</td>
</tr>
<tr>
<td><strong>Audio Inputs/Outputs</strong></td>
<td>4 / 1 (RCA)</td>
<td>4 / 1 (RCA)</td>
<td>4 / 1 (RCA)</td>
</tr>
<tr>
<td><strong>Alarm Inputs/Outputs</strong></td>
<td>4/1</td>
<td>8/3</td>
<td>8/3</td>
</tr>
<tr>
<td><strong>Video compression</strong></td>
<td>H.264</td>
<td>H.264</td>
<td>H.264</td>
</tr>
<tr>
<td><strong>Playback / recording frame rate</strong></td>
<td>BNC: 40fps@4MP / 80fps@2MP, IP: Real time</td>
<td>BNC: 80fps@4MP / 160fps@2MP, IP: Real time</td>
<td>BNC: 128fps@4MP / 256fps@2MP, IP: Real time</td>
</tr>
<tr>
<td><strong>Live view frame rate</strong></td>
<td>BNC: 80fps@4MP / 120fps@2MP, IP: Real time</td>
<td>BNC: 160fps@4MP / 240fps@2MP, IP: Real time</td>
<td>BNC: 320fps@4MP / 480fps@2MP, IP: Real time</td>
</tr>
<tr>
<td><strong>HDD supplied size</strong></td>
<td>1TB (6TB max)</td>
<td>1TB (8TB max)</td>
<td>2TB (8TB max)</td>
</tr>
<tr>
<td><strong>Additional Hard Disks (SATA)</strong></td>
<td>1 (8TB max)</td>
<td>1 (8TB max)</td>
<td>1 (8TB max)</td>
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</table>

### Software/firmware specifications

<table>
<thead>
<tr>
<th>DVR</th>
<th>AHDVR104A</th>
<th>AHDVR108A</th>
<th>AHDVR106A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating system</strong></td>
<td>Linux embedded</td>
<td>Linux embedded</td>
<td>Linux embedded</td>
</tr>
<tr>
<td><strong>Recording methods</strong></td>
<td>Auto, manual, scheduled, event</td>
<td>Auto, manual, scheduled, event</td>
<td>Auto, manual, scheduled, event</td>
</tr>
<tr>
<td><strong>Recording type</strong></td>
<td>Dual streaming</td>
<td>Dual streaming</td>
<td>Dual streaming</td>
</tr>
<tr>
<td><strong>Maximum number of channels being played simultaneously</strong></td>
<td>4 (BNC)/1 (mix)@main stream / 4 (8)@ sub stream</td>
<td>4 (BNC)/1 (mix)@main stream / 4 (8)@ sub stream</td>
<td>8x4MP@120fps (BNC)/8x3MP@144fps/8x2MP@Real time</td>
</tr>
<tr>
<td><strong>Protocols supported</strong></td>
<td>HTTP, DHCP, DDNS, PPPoE, P2P, NTP, SMTP (SSL), TCP/IP, UPnP, Comelit DNS, ONVIF</td>
<td>HTTP, DHCP, DDNS, PPPoE, P2P, NTP, SMTP (SSL), TCP/IP, UPnP, Comelit DNS, ONVIF</td>
<td>HTTP, DHCP, DDNS, PPPoE, P2P, NTP, SMTP (SSL), TCP/IP, UPnP, Comelit DNS, ONVIF</td>
</tr>
<tr>
<td><strong>IP assignment</strong></td>
<td>DHCP, manual</td>
<td>DHCP, manual</td>
<td>DHCP, manual</td>
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<tr>
<td><strong>Max bandwidth (Mbps)</strong></td>
<td>21</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td><strong>Remote control via browser</strong></td>
<td>Internet Explorer, Firefox, Chrome, Safari</td>
<td>Internet Explorer, Firefox, Chrome, Safari</td>
<td>Internet Explorer, Firefox, Chrome, Safari</td>
</tr>
<tr>
<td><strong>Remote control by software</strong></td>
<td>Comelit View 100 (Windows)</td>
<td>Comelit View 100 (Windows)</td>
<td>Comelit View 100 (Windows)</td>
</tr>
<tr>
<td><strong>Remote control by mobile</strong></td>
<td>App Comelit View 100 (Android, iOS)</td>
<td>App Comelit View 100 (Android, iOS)</td>
<td>App Comelit View 100 (Android, iOS)</td>
</tr>
<tr>
<td><strong>Main functions</strong></td>
<td>15x electronic zoom (preview and playback), Controllo UTC</td>
<td>15x electronic zoom (preview and playback), Controllo UTC</td>
<td>15x electronic zoom (preview and playback), Controllo UTC</td>
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### Functions

<table>
<thead>
<tr>
<th>Functions</th>
<th>AHDVR104A</th>
<th>AHDVR108A</th>
<th>AHDVR106A</th>
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</thead>
<tbody>
<tr>
<td><strong>Motion detection (zones)</strong></td>
<td>396</td>
<td>396</td>
<td>396</td>
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<tr>
<td><strong>Anti-tampering</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Loss of video signal</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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### Hardware specifications

<table>
<thead>
<tr>
<th>DVR</th>
<th>AHDVR104A</th>
<th>AHDVR108A</th>
<th>AHDVR106A</th>
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</thead>
<tbody>
<tr>
<td><strong>Type of connections/ports</strong></td>
<td>1xEthernet 1/100 Mbit/s, 2xUSB 2.0, 1xRS485</td>
<td>1xEthernet 1/100 Mbit/s, 2xUSB 2.0, 1xRS485</td>
<td>1xEthernet 1/100/1000 Mbit/s, 2xUSB 2.0, 1xRS485</td>
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### General data

<table>
<thead>
<tr>
<th>DVR</th>
<th>AHDVR104A</th>
<th>AHDVR108A</th>
<th>AHDVR106A</th>
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<tbody>
<tr>
<td><strong>Max absorption (W)</strong></td>
<td>10</td>
<td>36</td>
<td>35</td>
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<tr>
<td><strong>Power supply voltage (VDC)</strong></td>
<td>12V</td>
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<tr>
<td><strong>Supply voltage (VAC)</strong></td>
<td>100-240V, 50-60 Hz</td>
<td>100-240V, 50-60 Hz</td>
<td>100-240V, 50-60 Hz</td>
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<td><strong>Height (mm)</strong></td>
<td>48.5</td>
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<td><strong>Width (mm)</strong></td>
<td>300</td>
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<td><strong>Depth (mm)</strong></td>
<td>209</td>
<td>262</td>
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<td><strong>Weight (g)</strong></td>
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<td>1500</td>
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<td><strong>Type of finish</strong></td>
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<td><strong>Operating temperature (°C)</strong></td>
<td>-10-55</td>
<td>-10-55</td>
<td>-10-55</td>
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<td><strong>RH max operating humidity (%)</strong></td>
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<tr>
<td><strong>Supplied accessories</strong></td>
<td>Power supply, Mouse</td>
<td>Power supply, Mouse</td>
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## ACCESSORIES

### AHD100

## COMPATIBLE ACCESSORIES

<table>
<thead>
<tr>
<th>JUNCTION BOX</th>
<th>AHCAM105A</th>
<th>AHCAM165ZA</th>
<th>AHCAM125A</th>
<th>AHCAM175ZA</th>
<th>AHCAM1858ZA</th>
<th>AHCAM175A</th>
<th>AHTZ110A</th>
<th>AHTZ120A</th>
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<tbody>
<tr>
<td>JB-100MBA</td>
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<thead>
<tr>
<th>WALL BACKPLATE</th>
<th>AHCAM105A</th>
<th>AHCAM165ZA</th>
<th>AHCAM125A</th>
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<th>AHCAM1858ZA</th>
<th>AHCAM175A</th>
<th>AHTZ110A</th>
<th>AHTZ120A</th>
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</thead>
<tbody>
<tr>
<td>WM100SD</td>
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<table>
<thead>
<tr>
<th>POLE-MOUNTING BACKPLATE</th>
<th>AHCAM105A</th>
<th>AHCAM165ZA</th>
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<th>AHCAM1858ZA</th>
<th>AHCAM175A</th>
<th>AHTZ110A</th>
<th>AHTZ120A</th>
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<tbody>
<tr>
<td>PM100B</td>
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<tr>
<td>PM100W</td>
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<td>IPPT-401</td>
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<tr>
<th>CORNER BACKPLATE</th>
<th>AHCAM105A</th>
<th>AHCAM165ZA</th>
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<th>AHCAM175ZA</th>
<th>AHCAM1858ZA</th>
<th>AHCAM175A</th>
<th>AHTZ110A</th>
<th>AHTZ120A</th>
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<tbody>
<tr>
<td>IPPT-402</td>
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<td>IPPT1202</td>
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<th>PENDANT MOUNT</th>
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<th>AHCAM175ZA</th>
<th>AHCAM1858ZA</th>
<th>AHCAM175A</th>
<th>AHTZ110A</th>
<th>AHTZ120A</th>
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<tbody>
<tr>
<td>IPPT-604</td>
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</table>
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