Since 1989 an Observint Technologies Company

HD-SDI SOLUTIONS
SEE MORE CLEARLY
WHAT IS HD-SDI?

The demand for high-resolution video is growing in the video surveillance equipment market and beyond. Nothing compares to the video quality of true high definition (HD) video. HD-SDI technology not only delivers incredible resolution and image quality that is far superior to analog CCTV, an HD-SDI video system provides a cost-effective video surveillance solution that’s easy to integrate, implement and install.

When To Consider HD-SDI

The benefits of HD-SDI are far-reaching, and almost everyone in every type of industry can benefit from implementing HD-SDI technology.

If You Want Better Resolution

If you need higher quality images than analog CCTV, HD-SDI will be a big benefit to you when it comes to image quality. HD-SDI delivers high-quality, detailed HD resolution to support your business needs. You have the ability to zoom in during live video and playback modes to focus in on area of interest with exceptional clarity and crisp detail.

If You Want To Cut Costs

If you have budget constraints, HD-SDI hybrid systems provide a cost-effective solution. A hybrid HD-SDI system allows you to utilize existing analog CCTV equipment, yet provides the ability to utilize HD cameras and features as you need them.

Compare the Quality

HD-SDI

Analog

WHO IS USING HD-SDI TODAY?

No matter what your business or industry is, HD-SDI technology will deliver many benefits. HD-SDI technology helps you get a better glimpse into your business operations and activities, with greater detail, clarity and resolution in live video mode (than analog and IP), and provides a powerful tool to make better business decisions based on the ability to see your video footage more clearly. Take a look below at several areas of business where HD-SDI is making a real difference:

Retail
- Clearer and more detailed live video of employees, customers and activities
- Enhanced view provides detail image for identification and submission of evidence

Law Enforcement
- Clearer and more detailed image of suspects on live video
- License plate recognition

Banking
- Observe employees and currency handling
- Monitor the building and premises
- Capture detailed imaging of a suspect

Airport and Train Stations
- Monitor facilities, safety and security
- Capture people, events and suspicious activities in real-time on video with greater detail and clarity (than analog and IP) in live video mode
- Record a detailed image for suspect identification

Casinos
- Watch who is coming and going with a greater level of resolution and clarity in live video
- Monitor employees and customers
- Capture illegal activities such as card counting and more

Hospitals
- Monitor facilities and safety
- Assist with remote diagnosis of conditions and illnesses
- Monitor operating room surgeries and procedures

Sports
- Monitor and analyze player activity
- Assist with coaching players
The Six Benefits of HD-SDI

1. Unparalleled Resolution

HD-SDI is the only high-resolution video surveillance camera connection technology that delivers uncompressed, HDTV-compliant, TV broadcast quality signals in live video viewing. HD-SDI’s exceptional megapixel quality resolution is especially beneficial for video surveillance; it helps you to make analyses and decisions to improve all areas of your business—from loss prevention and safety to operations.

You have the ability to zoom in during live video and playback modes to focus in on areas of interest with exceptional clarity and crisp detail. Crisp, detailed video can make a big difference in providing valuable information and solutions for your business. For example, a higher-quality resolution, you have the ability to see faces and license plates more clearly, which can help to more easily identify someone during a questionable event or transaction. The amount of viewable detail in your recorded video can make a difference when it comes to being able to identify the suspect and link them to the crime, with evidence to prosecute. An analog camera does not have enough pixel resolution to provide that kind of detail and awareness.

WHAT TO LOOK FOR WHEN CONSIDERING HD-SDI

As with any technology, there are various needs and requirements. With HD-SDI, not all equipment is mix-and-match. There are certain capabilities and limitations depending on your choice of system (HD-SDI or HD-SDI Hybrid), as well as your needs and compatibility with existing equipment. Here are a few things to keep in mind when purchasing an HD-SDI solution.

HD-SDI Systems

- HD-SDI HD-SDI only DVRs are only compatible with HD-SDI cameras and will not work with analog CCTV cameras. Most HD-SDI DVRs are compatible with a variety of brands, but be sure to look for brand compatibility before making your selection.
- HD-SDI Hybrid. An HD-SDI Hybrid system provides hybrid flexibility and allows for the connection of both HD-SDI cameras and analog CCTV cameras. The number of HD-SDI and analog channels supported are predefined, so check to see if the DVR is a hybrid model the appropriate number of HD and analog inputs for your needs.

HD-SDI Cameras

- With an HD-SDI system and cameras, you can send HD video on existing coaxial cable (RG59, RG6 and RG11) without an adapter.
- HD-SDI cameras require no camera boot-up time: they are point-to-point and plug-and-play. You can install them just like a standard analog CCTV system.

Cabling

- HD-SDI systems allow you to utilize existing analog CCTV coax cables as long as the cable distance is sufficient for HD-SDI video signals (RG59/RG6 and RG11 or fiber optics).
- HD-SDI video cameras are point-to-point, and you can use existing coax cables to send the video feed directly from the camera to the recording device or DVR without the need for encoders or an existing network.

If you have questions when purchasing an HD-SDI security system, DVR or cameras, you can call a knowledgeable sales person who can best answer your questions. The Supercircuits sales team is happy to help.
The Six Benefits of HD-SDI

1. Zero Latency
The HD-SDI video feed travels on its own line with no compression and produces no latency (time delay). In live video mode, HD-SDI is smoother than analog and IP, it doesn’t skip and there is no image distortion.

2. Ease of Installation
With an HD-SDI DVR, you don’t need a networking or IT background in order to install the system, because it features plug-and-play connectivity that’s as easy to implement as standard analog CCTV systems. And, unlike an IP-based video system, there’s no need to configure or program each device, you just plug it in.

3. HOW HD-SDI, IP AND ANALOG CCTV VIDEO INTERFACES COMPARE
Is HD-SDI technology right for you? Here’s a quick look at how analog CCTV, MP IP and HD-SDI interfaces compare:

<table>
<thead>
<tr>
<th>HD-SDI-Compliant Interface</th>
<th>Analog CCTV Interface</th>
<th>MP IP Camera Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Works With Existing Coax Cabling</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Recording Immune To IP LAN Failure</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Live-View Immune to IP LAN Failure</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>100% Plug-And-Play</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>100% Digital</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Near Zero Latency</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Delivers 720p or 1080p Video</td>
<td>Uncompressed Live Video</td>
<td>No</td>
</tr>
<tr>
<td>Delivers Full HDTV Frame Rate</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Edge Analytics Support</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Video, Audio, Power, Data Over Single Cable</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

4. HD-SDI HYBRID SCALING AND FLEXIBILITY
HD-SDI has emerged as an alternative to IP video. It delivers superior image quality, is less complicated to operate and is more convenient to integrate with existing analog CCTV installations. With an HD-SDI system, you can send HD video on existing coaxial cable (RG/59, RG/6 and RG/11) without an adapter. A networking or IT background is not needed to install the system, because its plug-and-play connectivity is as easy to implement as standard analog CCTV cameras.

Hybrid HD-SDI DVRs include inputs for HD-SDI cameras as well as inputs for analog cameras. This provides true flexibility since analog cameras can be added to the hybrid system to utilize your existing cameras, and you can also add HD-SDI cameras to experience the benefits of HD-SDI in the most-needed areas of your business.

5. Ease of Use
An HD-SDI system is incredibly easy to use. With an HD-SDI system, the user interface is the same for the operator or installer as a CCTV interface, so no additional training is necessary to operate the system. HD-SDI DVRs provide both HD and SD resolution options.

6. Upgrade For Less
HD-SDI systems allow you to utilize existing cabling, don’t require a network infrastructure to upgrade, and require less bandwidth, so you will save on cabling, installation and operational costs. Also, with a hybrid HD-SDI system, you get both analog and HD inputs so you can use your utilize your existing analog cameras and upgrade to HD as you need, which saves on your upgrade costs.

10 Channel HD Hybrid Security DVR
BLK-HD10D
- Supports 2 channels of HD resolutions and 8 channels of D1 resolution
- D1 real-time & 2 HD cameras, 720p @ 60 fps & 1080p @ 30 fps recording
- VGA/BNC/HDMI monitor outputs
- Continuous, schedule, motion, sensor, manual recording
- DVD/USB network offload
- Single Client, Multi Client CMS and Smart Phone Apps

2.1 Megapixel 75’ IR HDcctv HD-SDI Outdoor Bullet Camera
BLK-HDC32IRG
- 3.7mm megapixel lens with external lens adjustment
- True day/night (ICR)
- Built-in DNR to eliminate noise from your video
- IP66 weather rated

2.0 Megapixel 12x Zoom Mini WDR PTZ Security Camera
BLK-HDFTZ12
- 720p @ 60 fps /1080p @ 30 fps video
- 12x optical zoom & 10x digital zoom
- 360 degree endless rotation & 180 degree tilt
- 210 preset positions & privacy masking