



Key Features

- 1/3" 2.2 Megapixel progressive-scan CMOS imager
- Real time 30 frames/sec resolution from D1 to 1080p
- H.264 & MJPEG dual-stream with CBR and VBR
- WDR, Day/Night, 2DNR, AWB, AGC, BLC HLC
- Phone, PC and Macs via EI, Chrome, and Firefox
- POE to send power and video over one Cat-5 cable
- Low profile, stylish mini vandal-proof dome
- Auto or programmed day/night mode
- Motion detection and scheduled programming
- Weather proof IP 66 sealed; operating -20°C to +60°C
- ONIVF, HTTP, HTTPS, TCP/IP RTSP DHCP, PPPOE
- Comes with Ascendent's X4 Fusion NVR Client

Overview

Full 1080p HD Video

Ascendent's MVRD-2MP camera is powered by a 1/3" 2.2 Megapixel progressive-scan CMOS sensor that renders high definition images with accurate color reproduction and clarity. This camera produces stunning depth of field, is ideal for wide-angle observational viewing, and offers digital zoom in playback to capture even the minutest details. Not only does it produce high resolution images, it also boasts an industry leading 30 frames per second at 1080p resolution. The progressive-scan, in tandem with the H.264B compression, eliminates motion blur for crystal clear images making the MVRD-2MP the clear choice for security professionals.

Precision Optics

The optical assembly is precision engineered from special low dispersion glass (ELD-glass). The ELD allows the light to accurately hit the sensor eliminating blur and dithering for razor-sharp images that maintain their details even after digital zoom. The lens is aspherical and made by a specialized grinding process which provides a perfectly curved surface for excellent aberration correction performance.

Intelligent Light Control (OSD)

The MVRD-2MP cameras have a number of technologies such as Wide Dynamic Range (WDR), Highlight Compensation (HLC), Targeted Backlight Compensation (TBL), and variable shutter speeds. Ascendent's cameras are intelligent and can be customized via user defined zones. This allows the installers to have complete control of how the camera responds to light ensuring the best image possible. For example, if there is a bright light source it will overexpose a large part of the image which leads to loss of detail. Our technology allows you to target these bright areas specifically, without darkening the whole image, so the video retains the maximum amount of detail.

Setup with remote storage



Setup with on-board storage



Cost Effective

While the MVRD-2MP is a professional grade camera it is still very affordable. Its 2.2MP resolution can replace up to 4 traditional analog cameras reducing both labor and equipment costs. It uses H.264B compression algorithm to reduce bandwidth, storage, and processor requirements. With its POE feature one Cat-5 cable can transmit both power and video. As with all of Ascendent's IP cameras, it comes with a free X4 NVR Client software license. When you buy an Ascendent MVRD-2MP IP camera you are not only getting a camera, you are getting a complete HD professional-grade security solution.

Rugged Vandal-Proof

Ascendent's MVRD cameras are constructed of high impact aluminum and optically pure polycarbonate. The camera base is fixed by 3 steel security screws making it a true rugged, vandal-proof camera that can withstand even the most brutal assaults. The enclosure is IP 66 weather sealed allowing it to be installed both indoors and outdoors. Though it is rugged, it is also stylish and low profile making it ideal for applications from casinos to prisons.

Installer Friendly

Ascendent's OSD programming was designed with the installer in mind. It allows for remote configuration over the network to give the best performance in any application. The camera has an internal ball design which allows you to effortlessly position the camera vertically, upright, or horizontally. The lens has a focus adjustment to easily focus on your target area such as a door entrance or cash register. It also has extremely low power draw and only requires a network cable and 12VDC, or POE can be used. All of these features allow this camera to be installed in under 10 minutes.



This is a comparison of different resolutions ranging from CIF to 2MP. Note how the 2MP size is at least 4 times larger than standard D1. A single Megapixel camera can replace multiple traditional cameras and they provide detail that is much more useful for identification.

Fully Featured

The MVRD-2MP is a fully functioning IP device allowing video to be distributed over wired and wireless WAN and LAN networks. The MVRD-2MP network camera supports sub-stream and mainstream features which means you can record 1080p resolution at one location and D1 resolution at another. It has integrated VBR and CBR with user-selectable bit rate and frame integration giving you total control over the amount of data and bandwidth usage. The MVRD-2MP comes with Ascendent's X4 64ch NVR platform. Our platform is designed to be ubiquitous by utilizing over 20 of the most common streaming and communication protocols including but not limited to; HTTPS, TCP/IP, RTSP, SMTP, FTP and ONIVF which ensure seamless integration with 3rd party NVR, VMS and NAS devices.



Complete Solution

There are thousands of IP camera manufacture's and VMS platforms all with different GUIs, specifications, protocols, and compression algorithms making it a challenge for even the most seasoned integrators to provide reliability and continuity to their customers. When you buy an Ascendent IP camera it comes with a free X4 VMS software that has your cameras pre-registered, eliminating the costly and time consuming ordeal of obtaining a licensing and registration for each camera. Ascendent also custom builds hybrid NVRs with anywhere between 4 to 100 channels that work with Analog, SDI and IP. We offer options like Raid 6, redundant power supplies, and hot-swappable storage to fully suit any need. Our systems can be pre-configured and tested for a true plug-and-play installation. We also offer a service whereby a technician can remotely control your system, or a technician can be commissioned to set up your cameras. This provides you with a complete end to end solution from quote to implementation, making Ascendent the manufacturing choice for integrators.

Edge Storage (Coming Soon)

Edge storage enables the VRDM-2MP IP camera to operate autonomously by providing on-site video recording, or redundant recording when used in tandem with a VMS, NVR platform/cloud, or a NAS storage device.

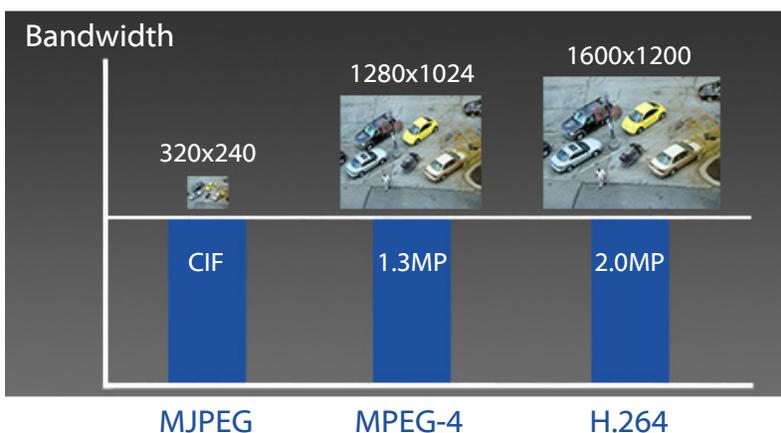
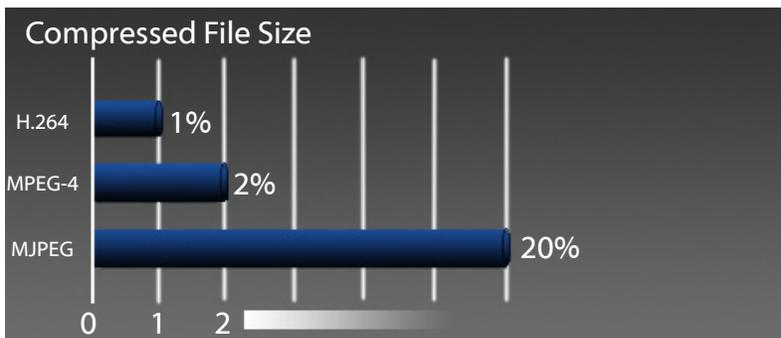
In the event of equipment failure, network interruption, or server maintenance the camera records video internally on an SD card and when the network or server is restored the video that was recorded during the downtime can be merged to the NVR VMS and other devices.

Connectivity and Configuration

With the MVRD-2MP your video is instantly available, with an active internet connection, at resolutions from D1 up to 1080p. The MVRD-2MP can be viewed and configured using Safari, Chrome and Internet Explorer for PC or Macs. There are free apps available for remote viewing on Android and IOS smart phones and tablets with the ability to save snapshots directly to your devices. The MVRD-2MP ships out with Ascendent's free X4 Client software that can turn your laptop or desktop PC into a mobile NVR to monitor your assets and even view and record cameras from multiple locations for peace of mind.

Dynamic and Versatile

The MVRD-2MP is one of the most versatile solutions on the market. It can be installed indoors or outdoors and it is a true day/night camera that can be programmed to switch automatically, at a certain lux level, or can be scheduled to switch between day/night mode based on the time of day. With motion recording enabled it can be used in remote locations where there is limited or no bandwidth and internet. The MVRD-2MP is a standalone solution that can work autonomously for a one camera application or be part of a larger homogenous solution involving thousands of cameras. This makes it ideal for small businesses and global corporations alike.





*Specifications are subject to change at anytime.

Optical Assembly

Image Sensor	1/3" full HD CMOS sensor
Resolution	2.2 Megapixels, 1080p HD
Frame Rate (FPS)	30FPS @ 1080p
Lens	3.6mm fixed lens (other options available)
Minimum Illumination	Color 0.2 Lux / BW 0.01 Lux
Signal to noise ratio	50dB+ (AGC off)
Shutter Speed	Auto: 1/3 - 1/10,000 SEC
Video Out	1080p

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTR, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour
ONVIF	Version 2.0
Maximum User Access	10 users
Smart Phone	iPhone, iPad, Android, Windows Phone

Video

Compression	H.264 / H.264B MJPEG
Resolution	1080P(1920x1080) / 720P(1280x720) / D1(704x576) / CIF(352x288)
Frame Rate (Main Stream)	1080P/720P (1~25/30FPS)
Frame Rate (Sub Stream)	D1/CIF (1~25/30FPS)
Bit Rate	H.264: 32K ~ 8192Kbps, MJPEG: 32K ~ 20480Kbps

Features

Day/Night	Auto (Electronic) / Color / B&W
Backlight Compensation	BLC / HLC / WDR
White Balance	Auto
Gain Control	Auto/Manual
Noise Reduction	2D
Privacy Masking	Up to 4 areas

Physical

Construction	Extruded high strength aluminum
Viewing Window	Optically pure polycarbonate
Standard Color	White
Dimensions	110mm x 54mm
Weight	0.25kg

Environmental

Operational Temperature	-20°C to +60°C
Environmental	IP 66 sealed

Electrical

Input Voltage	12 Volt DC
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