

# Y-CAM<sup>®</sup> Bullet HD<sup>1080</sup>



More detail, more powerful, more compatible,  
easier to install, easier to use.

**HD<sup>1080</sup>**

High Definition



Secure Wireless



Micro SD Slot

PC/Mac

Compatible



Email Alerts

H.264

Compression



Mobile Enabled



Motion Detection



Cable Connect

PoE

Power Over Ethernet



2 Way Audio



True Day/Night

ONVIF

ONVIF 2.0

View your world from anywhere ... anytime

# Y-CAM<sup>®</sup> Bullet HD<sup>1080</sup>

The Y-cam Bullet HD 1080 delivers High Definition 1080p video images over your network through Wi-Fi, PoE or Ethernet connections, operating independently, without the need to be connected to a computer, in full colour and infrared night vision.

If any motion is detected, the camera can instantly email you an alert with snapshot, store video to microSD, or record direct to virtually any NAS drive with NAS-Ready™.

Easy to install, simple to operate, secure to use; the weatherproof Y-cam Bullet HD 1080 can be viewed remotely from any PC, Mac, smartphone or tablet.

## Specifications & Requirements

Product Code - YCBLHD6

EAN Number - 5060158900565

### Camera

Image device - 1/2.7" CMOS  
Resolution - 1920 x 1080 (HD 1080p)  
Pixels - 2,073,600  
White Balance, Exposure, Gain - Auto  
Viewing angle - Horizontal: 71°, Vertical: 49.5°  
Focal length - f=4.2mm  
Aperture - F2.0  
Min. illumination - 1 Lux (Normal mode) / 0 Lux (Nightvision mode)  
Infrared LED - 32 LEDs  
Night Vision Distance - 15m  
IR Cut Filter - Yes  
Image compression - H.264 / MJPEG  
Max. frame rate - 30fps @ 1920x1080  
Audio compression - G.711 (ulaw) 8KHz  
Built-in microphone - Yes

### Network

Authentication - 3 levels, up to 10 users  
Network protocols - TCP, UDP, IP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, UPnP, DDNS  
Stream type - RTSP/RTMP/RTCP  
Network connection - Ethernet 10BASE-T/100 BASE-TX  
Power over Ethernet (PoE) - IEEE802.3af

### Wireless LAN

Wireless technology - IEEE802.11b/g/n  
Frequency - 2.4-2.484GHz  
Transmission speed - Auto Switch up to 150Mbps (1 Spatial Stream)  
Security - WEP(64/128 bit), WPA(AES/TKIP), WPA2-PSK(AES/TKIP)

### External Ports

Audio Output (2 way audio) - Yes  
SD Slot - microSD card (4GB - 32GB capacity, class 6 or higher)  
Digital I/O - 1 input, 1 output

### General

Power requirements - DC 12V / POE  
Power consumption - 4W (Normal) / 5W (With Wi-Fi) / 9W (With Wi-Fi and IR)  
Operating temperature - -10 to +50°C  
Storage temperature - -20 to +60°C (-4 to +140°F)  
Operating humidity - 20-80%RH (Non-condensing)  
Storage humidity - 20-95%RH (Non-condensing)  
Dimensions (D x H) - 70mm x 113mm  
Weight - 810g (Body)  
Supplied accessories - 1 x Camera, 1 x CD (User manual and software), 1 x Quick Start Guide, 1 x Stand for Mount, 1 x Ethernet Cable, 1 x AC/DC Power Adapter, 1 x Conduit Gland

### Minimum PC System Requirements

Operating system - Windows XP/Vista/Windows 7  
Processor - Intel Pentium 4, 2.6GHz  
Memory - 512Mb RAM

### Minimum Mac System Requirements

Operating system - Mac OSX 10.4 (Tiger)  
Processor - 2000MHz - PowerPC G4 or Intel  
Memory - 512Mb RAM

### Viewing System Requirements

Web Browser Setup/Viewing - Microsoft Internet Explorer version 9 or later, Mozilla Firefox, Google Chrome, Safari & most other browsers.  
Mobile Phone Viewing - VLC, Real Player, QuickTime and most other VLC players.  
Y-cam Mobile Live Images feed can be viewed via most internet enabled devices.

### Other Requirements

Broadband connection with at least 256kb/s upload recommended for Internet viewing.  
This Y-cam is designed for indoor or outdoor use, and is IP66-rated (weatherproof).

## Compatible Systems



## Special Features of this Model

### High Definition HD 1080p Video



The Y-cam Bullet HD 1080 delivers crisp High Definition 1080p video images. Enjoy full resolution video at 30 frames per second for a truly spectacular high-definition experience, ideal for securing areas where greater image detail is required.

### H.264 Compression

The latest H.264 compression technology allows the Bullet HD 1080 to efficiently utilize your network, even with the highest-quality video.

### H.264



### True Day/Night Picture

Using an Infrared Cut Filter, the Bullet HD 1080 produces true day and night quality images around the clock.

### Professional Connectors

The Y-cam Bullet HD 1080 comes with Power over Ethernet allowing you to transmit data and power over a single cable, a Digital I/O for systems integration, and 2-way audio capability (provided by a built-in microphone and audio out connector) allowing you to remotely talk to anyone at your cameras site.

### I/O PoE

### Cable Connect



The Bullet HD 1080 new cable connect system allows DIY users or installation companies to save time and money when fitting the camera. Cable Connect allows you to terminate a single Cat 5 network cable into the rear of the camera through a weatherproof interface, minimising cable routing and drilling requirements.

### ONVIF 2.0



Y-cam has included ONVIF compatibility with the Bullet HD 1080 camera, allowing users the widest possible interoperability with 3rd party surveillance systems, regardless of manufacturer.

## Standard Y-cam Features

### Motion Detection & Alarms



If the Y-cam detects movement in its field of vision, it can automatically send an e-mail alert notifying the owner that motion has been detected, with an attached image of the scene, or it can upload footage to an FTP server so data is securely stored offsite. Unlike conventional activity detection, the Y-cam uses vector information to detect motion, therefore achieving better reliability against false alarms.

### Secure Wireless Connectivity



Freedom to place the camera where required with built-in Wi-Fi connecting directly to the Internet. Y-cam supports WEP, WPA, and WPA2 for total connection security, as well as utilising secure password authentication so only authorised users get access.

### PC & Mac Compatible

### PC/Mac

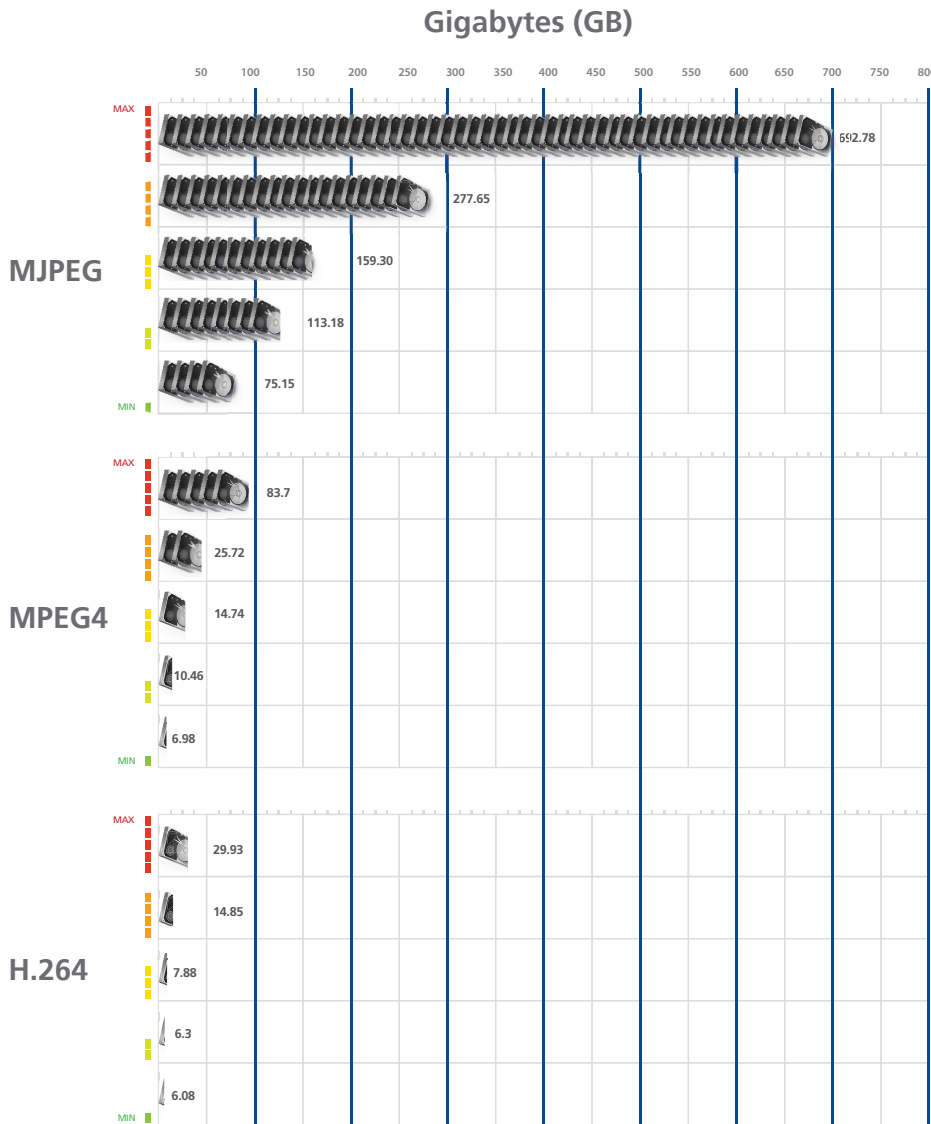
Y-cam is compatible with both PC and Apple Macintosh computers, as well as with multiple web browsers.

### NAS & NVR Drive Compatible

The Y-cam range is not only compatible with market leading NVR drives from manufacturers such as QNAP, Synology and AVerMedia, but our unique NAS-Ready™ feature allows a Y-cam to record directly to virtually any NAS drive. NAS-Ready™ lets a Y-cam talk to any NAS drive using the CIFS/SMB protocol, allowing for virtually unlimited storage of footage and alerts.

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## Storage space required for 24 hours of continuous recording

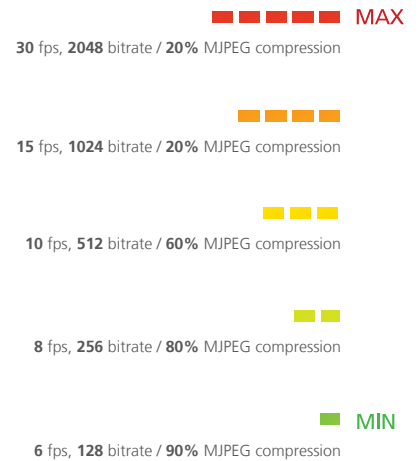


Providing a choice of MJPEG, MPEG4 or H.264 compressions methods, the Y-cam Bullet HD 1080 allows you to choose the best video format to suit your needs.

By using H.264, the Bullet HD 1080 can store 20x more video in the same space of a MJPEG file – meaning a lower usage cost as less storage is required.

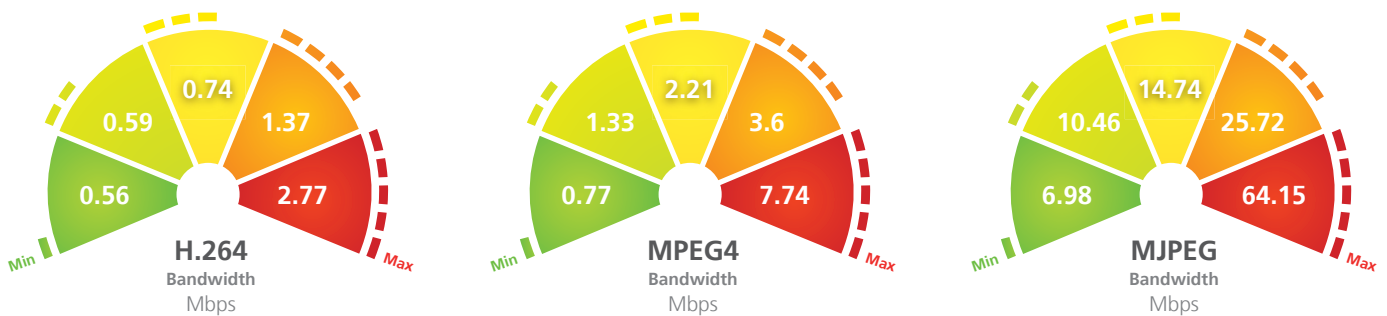
Using a lower quality camera setting and a 32GB internal microSD card, the Bullet HD 1080 can record continuously for 2 weeks without the need for any additional hardware.

### Camera quality settings



## Bandwidth requirements per second

The Bullet HD 1080's stream settings means that you can configure your camera to suit your network or viewing habits. By using H.264, the Bullet HD 1080 lets you view your camera using just a fraction of the bandwidth used by MJPEG.



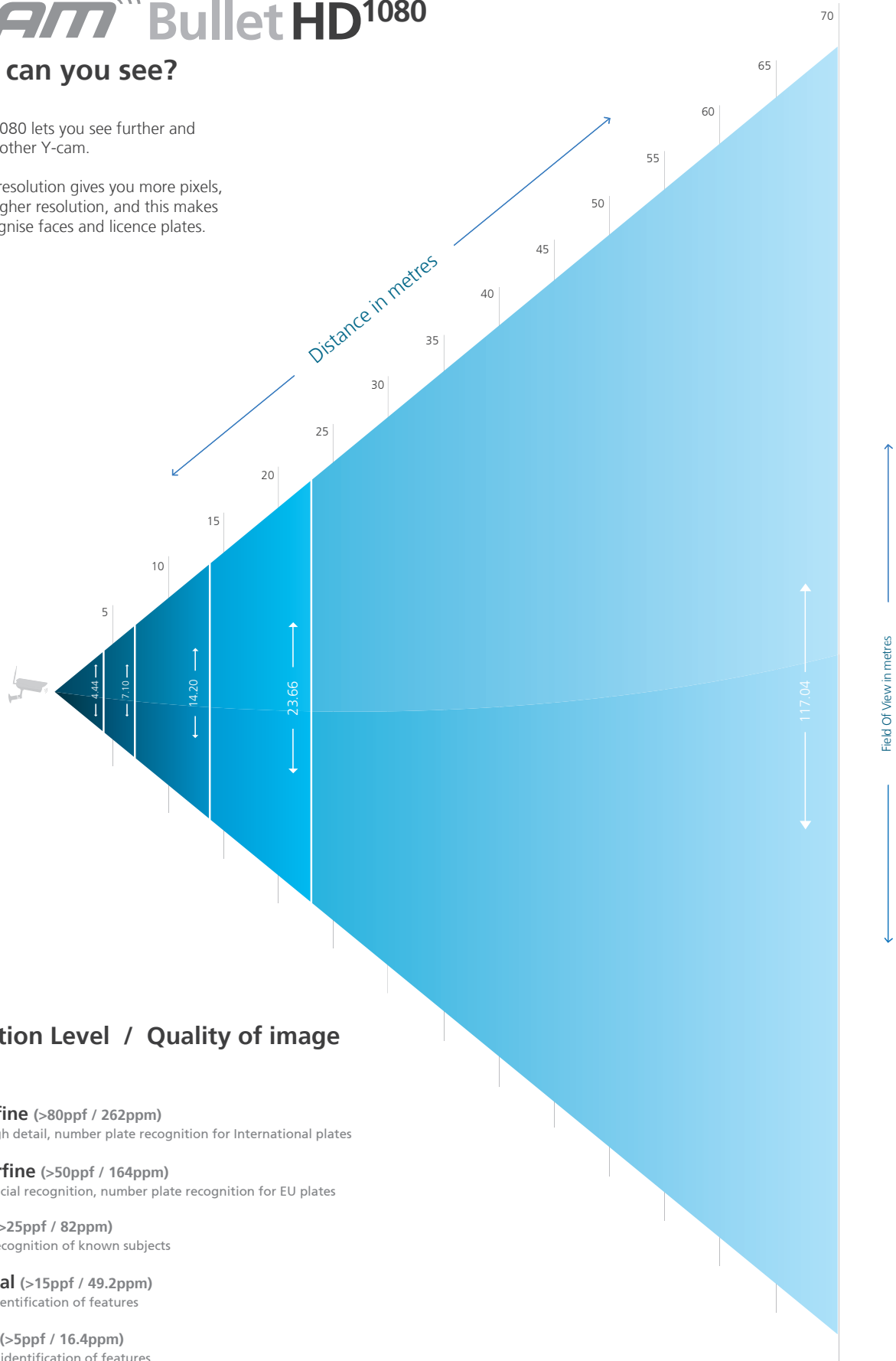
**Please note:** Due to the advanced compression technologies, these figures are dependent upon the amount of motion, and complexity, within the frame of video. The less movement, the smaller files produced by the compression. If there is lots of movement, like a busy street, then the files will be larger. The figures here have been estimated on an "average" or "medium" level of activity and complexity in the scene.

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## How far can you see?

The Bullet HD 1080 lets you see further and wider than any other Y-cam.

The HD 1080p resolution gives you more pixels, which means higher resolution, and this makes it easier to recognise faces and licence plates.



## Identification Level / Quality of image

### Zones

5	<b>Ultrafine (&gt;80ppf / 262ppm)</b> Very high detail, number plate recognition for International plates
4	<b>Superfine (&gt;50ppf / 164ppm)</b> Good facial recognition, number plate recognition for EU plates
3	<b>Fine (&gt;25ppf / 82ppm)</b> Facial recognition of known subjects
2	<b>Normal (&gt;15ppf / 49.2ppm)</b> Some identification of features
1	<b>Basic (&gt;5ppf / 16.4ppm)</b> Limited identification of features

**Please note:** This information is designed as a guide. Image quality will greatly depend on lighting and scene conditions. We recommend customers test cameras to ensure the results will meet their requirements, and be careful comparing spec sheets with cheaper cameras – there is usually a good reason they're cheaper. Not all pixels are created equal. Different cameras will achieve different quality levels at the same pixel density. Y-cam ensures high quality by optimising the complete package of lens, sensor, processor and cables.