

Ultra Dynamic Series

High Resolution Ultra Wide Dynamic Fullbody Colour Cameras

CAM3070



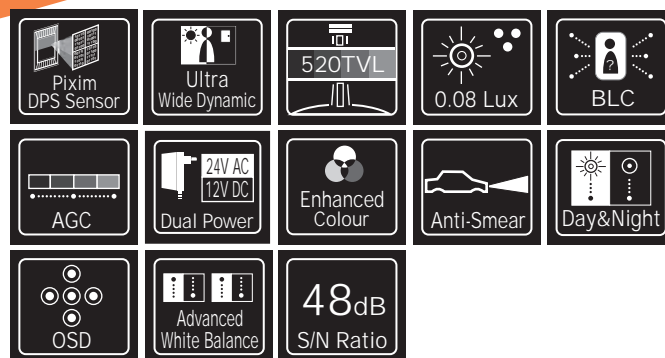
Normal



BLC



Ultra Dynamic



Introduction

Stunning image quality coupled with powerful wide dynamic range, the Ultra Dynamic Series by iFCS are versatile high performance cameras suitable for a wide range of applications.

Features

Super High Resolution 520 TV Lines

With the Pixim High Resolution mode the Ultra Dynamic Series delivers super crisp 520 TV Lines picture resolution resulting in highly detailed images.

Ultra Wide Dynamic Image Processing

A fundamental breakthrough in imaging technology, the Ultra Dynamic Series utilises Pixim's Digital Pixel System to provide high quality pictures with enhanced wide dynamic range. The exposure is calculated for every pixel separately and combined together to provide a superior image that provides excellent detail in high contrast lighting.

Advanced Anti-Smear Rejection

With traditional camera technology vertical smear can occur when the CCD sensor is overwhelmed by bright lighting. This vertical smear obscures the image and results in coloured bars throughout the picture. The Pixim DPS of the Ultra Dynamic Series is far superior in reducing the effect of smear when compared with conventional CCD cameras as each pixel on the sensor acts independently. This technology ensures that pixels do not become overexposed with bright light, resulting in a clear highly detailed picture regardless of the lighting conditions.

Enhanced Colour Processing

The Pixim DPS solution provides more accurate colour reproduction in the Ultra Dynamic Series as each pixel exposure time is calculated independently to ensure that the pixel's colour is as accurate and vibrant as possible. Conventional camera technology sets a single exposure time for each frame which can result in some pixels that are underexposed and some pixels that are overexposed. The Pixim DPS results in a perfect picture with truer skin tones and more accurate white balance processing, especially in wide dynamic environments, where the white balance may need to be calculated for both indoor and outdoor lighting at the same time.

On Screen Menu

Making adjustments on the Ultra Dynamic Series are easy via the built-in on screen menu. Programming of the wide dynamic range zone is easy via the push button set-up.

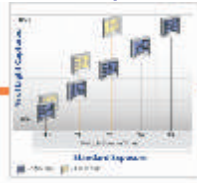
Dual Power DC12V & AC24V

Maximum compatibility with dual power support, the Ultra Dynamic Series can utilise both DC and AC power as needed, making them easy to install at any location.

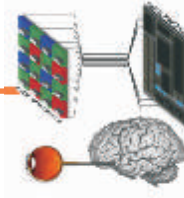
The DPS Invention



Pixim Multi-Sample Technology



Eye to Brain



Every Pixel is a Camera



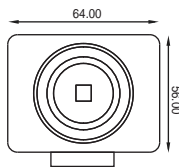
At the core of Pixim's DPS solution is analogue to digital converters (ADC) for every individual pixel. Converting the pixels at the point of capture minimises signal degradation and allows pixel by pixel multi-sampling to calculate the perfect exposure level.

Two-way real-time interactivity analyses the pixel exposure results and can modify the image capture algorithms to produce the best possible picture. Essentially each pixel acts as its own camera resulting in hundreds of thousands of individual cameras, each of which produces the best image possible.

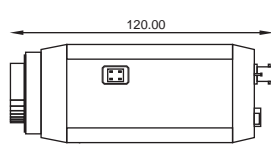
Appearance

CAM3070

• FRONT VIEW



• SIDE VIEW



Specifications

DESCRIPTION	CAM3070
Image Pick-Up Device	1/3" Pixim Solution
TV System	NTSC / PAL
Pixels	PAL = 742(H)X 552(V)
Scanning System	2 :1 Interlaced
Sync System	Internal (DC) / Line Lock (AC)
Resolution	520TV Line (Pixim High Resolution Mode) 480TV Line (Pixim Standard Mode)
Wide Dynamic Range (WDR)	OFF / WDR / BLC / Selectable
Dynamic Range	120dB (Maximum) / 95dB (Typical)
Minimum Illumination	0.08Lux (Sense - Up X 128)
S/N Ratio	More than 48 dB
White Balance	ATW / AWC / MANUAL (2500K ~ 9500°K)
Gamma Characteristic	0.45
Video output	1.0Vp-p 75 ohm Composite
Electronic shutter Speed	PAL : AUTO/MANUAL (X128~1/50SEC~ - 1/100,000sec) SENSE-UP & SENS-UP LIMIT IS SELECTABLE
OSD	BUILT-IN
BLC	LOW, MIDDLE, HIGH, OFF SELECTABLE
AGC	LOW, MIDDLE, HIGH, OFF SELECTABLE
DAY&NIGHT	AUTO / COLOUR ON
MIRROR	ON / OFF
SHARPNESS	ON / OFF (LEVEL ADJUSTABLE)
Power Supply	DC12V / AC 24V
Power Consumption	250mA
Lens	C or CS Mount
Operational Temperature	-10Deg ~ +50 Deg C RH95% Max
Storage Temperature	-20Deg ~ +60 Deg C RH95% Max
Weight	Appx. 0. 5Kg

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Head Office

Unit 1, 2 Apollo Court
Blackburn, Victoria 3130

Tel: (03) 9894 0333
Fax: (03) 9894 4799

sales@austarsecurity.com.au

New South Wales

Unit 7, 8 Millennium Court
Silverwater, New South Wales 2128

Tel: (02) 9648 7744
Fax: (02) 9648 5455

nsw@austarsecurity.com.au