VB21CPH-B36

Security & Privacy

World's Security Solution - RF CONCEPTS

High resolution 1/3" Panasonic DSP CCD Color board camera

Here we introduce the paramount technology of 1/3" Panasonic HAD CCD Color cameras achieved by using 8 bit digital processing. Derived from our profound knowledge on the DSP color video security solution, we developed a series of compact color board camera visions performing the greatest picture quality with the most reliable circuitry. At this ages It is highly demanded for the ability of making the unit as compact as possible with quality and perfromance continuously upgraded. Based on their supreme features, it suits best for high-end CCTV applications and professional Digital network cameras as well.

IP68
Waterproof for outdoor use

8bit DIGITAL
Extremely accurate Color

True Color at day
True B/W at night
(Option)

1/3"
CCD
New DSP high grade CCD

ZERO DEFECT
ISO T/S 16949

X-Version
0 LUX
0.2lux at F2.0

Surge protection

Key features

- **1/3" Panasonic DSP Color CCD**
  : It is the world's first high performance camera in a bullet style.
  It is noticeable in that the unit is used with the most high end 1/3" CCD chip set from Panasonic.
  It is highly recommended for a special requirement where need more precise, more bright and high resolution such as for medical site, chemical plants, defence areas, precise inspection equipemnts or for crowded big halls etc.
- **Extremely accurate Color and BW reproduction with 8 bit digital process**
- **High resolution 480TVL**
- **Excellent Color reproduction close to the human eye performance.**
- Outstanding low light sensitivity
  : The biggest benefit of using 1/3" DSP sensor for this micro bullet camera is that the low lux performance reaches up to an extreme darkness of 0.2 lux/F2.0.
  Additinally noise-free picture quality at dark view makes its low lux performance to maximum.
- **Wide dynamic working power tolerance**
- **Surge voltage input protection built-in!**
- **Reverse Polarity input protection built in!**
- **Extremely reliable Power control**

1/3" Panasonic DSP CCD
480TVL Hi-Resolution
Lens Exchangeable

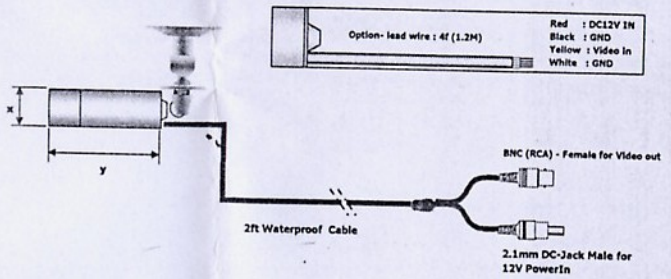
PERFECT
PICTURE QUALITY !

0.2Lux/F2.0 when AGC Max CE

Bullet camera

Dimensions(mm)

	Remarks	x	y	weight
Color	Waterproof	21mm	78mm	165g
	Board	21mm	70mm	150g
	Flat	21mm	63mm	150g
	Cone	21mm	63mm	150g
	Peak	21mm	65mm	140g



Models available

Outdoor use
- ○ Roof
- ○ Weatherproof

Indoor use
- ✓ Board
- ○ Peak type
- ○ Flat type
- ○ Cone type

Optional features

- ○ 850㎚ IR Sensitive
- ○ TRUE Day / Night - Auto conversion, Clear Color at day and vivid BW at night
  : The image is intantly changed from Color to Bw at 2 lux (True Color at day and true BW at night).
  By this function, the horizontal and vertical resolution is greatly improved at night time mode.
  the low lux performance is improved a lot accordingly.
- ○ High Sensitive Audio - External Audio with C-Mic" - 35dB / mV "
- ○ Reverse Image

Specifications

● Image color	✓ Color ○ Black and White

● Image sensor

Image Format	Model	H.Resolution
○ 1/3" Sharp Super HAD, Color	VB21C	380TVL
○ 1/3" Sharp Super HAD, Color	VB21CH	480TVL
✓ 1/3" Panasonic Super HAD, Color	VB21CPH	480TVL
○ 1/3" Sony Super HAD, Color	VB21CS	400TVL
○ 1/3" Sony Super HAD, Color	VB21CSHR	480TVL
○ 1/3" Sony HQ1 Super HAD, Color	VB21HQ	550TVL
○ 1/3" Sony Ex-view HAD, Color	VB21CSHRX	480TVL
○ 1/3" Sony HQ1 Ex-view HAD, Color	VB21HQX	550TVL

● Effective pixels	○ CCIR / PAL 500 (H) X 582 (V) ○ EIA / NTSC 512 (H) X 492 (V) ✓ PAL / CCIR 752 (H) X 582 (V) ○ NTSC / EIA 768 (H) X 494 (V)
● Lens	Board lens option : ○ 2.9mm 120° ○ 8.0mm 39° ✓ 3.6mm 92° ○ 12.0mm 26° ○ 4.3mm 78° ○ 16.0mm 15° ○ 6.0mm 54°

Pinhole lens option :

Flat type	○ 3.7mm 90°	○ 5.0mm 60°	
Cone type	○ 3.7mm 90°	○ 4.3mm 78°	○ 5.0mm 60°
Peak Cone type	○ 3.7mm 90°	○ 5.0mm 60°	

*All lenes are exchangeable

● Min. Illumination	○ 0.1 Lux at F2.0 ✓ 0.2 Lux at F2.0 ○ 0.3 Lux at F2.0, ○ 0.7 Lux at F2.0
● Synchronizing system	Internal
● Scanning system	EIA/NTSC 525 Lines CCIR/PAL 625 Lines 2:1 Interlaced
● Video output	1.0Vp-p Composite, 75 Ohms
● S/N ratio	More than 50 dB (AGC Off)
● Shutter Speed	EIA/NTSC: 1/60 ~ 1/100,000 sec CCIR/PAL : 1/50 ~ 1/100,000 sec
● Back Light Compensation	Automatic
● Gamma correction	Standard r=0.45
● White Balance	2100°K ~9100°K Auto
● Gain Control	Auto. 0dB - 32dB
● Smear Effect	0.005%
● MTBF	80,000 hours
● Operating Temperature	14° F~122° F (-10° C~ + 50° C)
● Humidity	Within 90% RH

● Power source

Sharp	Sony	Panasonic
DC12V / 80mA	DC12V / 130mA	DC12V / 90mA

● Output Terminal	Refer to dimension
● Measurement(mm)	Refer to dimension
● Weight (Approx.g)	Refer to dimension