

WCA-M202

Full HD Mega-pixel Rugged IR PTZ Camera



- ❖ 20x Mega pixel zoom
- ❖ 1080p 30fps
- ❖ HD-SDI(SMPTE 292M)

WDR (Wide dynamic range)

The Camera delivers clear, high quality pictures even in backlight, by increasing exposure in dark areas while decreasing it in bright areas a corrected image with clear details results.



FEATURES

- 1/3" 2M Pixel CMOS image sensor that supports FULL HD (High Definition)
- Using progressive scan and Auto WDR
- 20x optical zoom and F1.6 aperture (optical zoom + digital zoom = 240x).
- Good at low-light environments using the Noise Reduction function.
- Video signals can be output as digital and analog Y/Pb/Pr outputs.
- A variety of digital output methods
- Auto ICR
- 12pcs of 18ø IR LED(120m manual focusing)
- DC12V version for vehicle application :
The power ground and video ground in DC12V version is unified in common so that the power can be input from vehicle.
- AC24V version for CCTV : AC24V is available for CCTV application.
- IP66 Outdoor Application
- Endless Pan rotation(TOP 15°~270°, BOTTOM 345°~90° tilt angle)
- Up to 63 programmable presets
- less than 0.3° Preset Accuracy
- 8 programmable Tour, 2 Pattern
- Alarm - Move the camera to programmed Preset position with Alarm trigger.(Max. 2)
- 4 Scan(Programmable speed and diagonal scan)
- Programmable Privacy Masking(2 Zones)
- RS-422, RS-485 communication
- Multiple protocol (WTX, PELCO-D V1, PELCO-P, PELCO-D V5)
- Built-in Menu System for Setup of Programmable Functions
- Mechanical Auto Flip
- Programmable Zoom Speed(Optional Update tool)

Light Function

It's builtin 12pcs of 18ø IR Lens , So it provides visible distance up to 120m in the dark.(manual focusing)

Auto ICR

These cameras offers optimal sensitivity in both day and night shooting applications. At a set level of darkness, the IR-cut filter is automatically disabled (ICR ON) and the near-infrared sensitivity is increased. At a set level of brightness, the filter is automatically enabled (ICR OFF). The IR-cut filter automatically engages depending on the ambient light, allowing the camera 24/7 operation in a variety of lighting conditions.

HD SDI

PTZ

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SPECIFICATIONS

MECHANICAL	
Pan	360° Endless Pan 0.1° to 100°/sec.
Pan Preset Speed	110°/sec, 0.3° Accuracy
Tilt	TOP 15°~270° , BOTTOM 345°~90° tilt angle, Proportional to zoom
Tilt Preset Speed	60°/sec, 0.3° Accuracy
Weight	2.7kg
Dimensions	138(Ø) x 212(H) mm

ENVIRONMENTAL	
Construction	Aluminum
Ingress Protection	IP66
Color	Black
Operating Temp	-20°C to 50°C (Fan&Heater power ON)
Humidity	0% to 90%

FUNCTIONS	
Preset	63 points
Tour	8 programmable
Pattern	2 patterns
Flip	Mechanical / Auto / Off (Rotate 90° at bottom of tilt)
Auto Scan	4 (programmable speed and diagonal scan)
Privacy Zone	2 blocks with title (Masking / Video off)
Address	Up to 255 selectable ID (Rotary switch)
Data Communication	RS-485 / RS-422
Protocol	Multiple protocol(WTX, PELCO-D V1, PELCO-P, PELCO-D V5)
Baud rate	2400, 4800, 9600, 19200, 38400 ,57600, 115200 bps
Alarm In	2 alarm (NO/NC, Priority)
Alarm Out	2 relay out (Hold, Latch)
Display	Zone title on/off (start / end zone)

ELECTRICAL	
Power	DC 12V, 40W, 3.3A (Power adaptor not included) IR : 1.9A (23W) (Fan & Heater ON)
Light	12pcs of 18Ø IR LED
Light distance	120m (manual focusing)

VIDEO	
Video Out	HD-SDI - 1 channel (1080i60,1080p30,720p60,1080i50, 1080p25, 720p50) CVBS -1 channel , IP Webserver (Option)

CERTIFICATION	
CE, FCC CLASS A, RoHS	

CAMERA SELECTION

MODEL	WCA-M202
Imager	1/3" 2M Pixel CMOS Sensor
Picture elements	1920 x 1080 pixels
Lens	20x zoom F= 4.7 mm (WIDE) to 94.0 mm (TELE), F1.6 to F3.5
Digital zoom	12x (240x with optical zoom)
Angle of view (H)	Approx. 55.4 degrees (WIDE end), approx. 2.9 degrees (TELE end) (1080i mode) Approx. 37.6 degrees (WIDE end), approx. 2.0 degrees (TELE end) (720p mode)
Min. working distance	10 mm (WIDE end), 800 mm(TELE end)
Sync system	Internal
Min. illumination	0.5 lux/1/30 sec., 50% (Interlace mode) (High Sensitivity mode ON) 1.7 lux/1/30 sec., 50% (Typical value) 0.26 lux/1/4 sec (NTSC), 1/3 sec (PAL) (Typical value) / ICR-ON Mode 0.0005 lux/1/4 sec (NTSC), 1/3 sec (PAL)
Recommended illumination	100 to 100,000 lux
S/N ratio	50 dB (Weight ON)
Back light compensation	ON/OFF
Electronic shutter speed	60/30 mode: 1/1 to 1/10000 sec. (22 steps) / 50/25 mode: 1/1 to 1/10000 sec. (22 steps)
White balance	AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor
Gain	Auto/Manual (-3 dB to +28 dB, 16 steps)
Wide dynamic range	ON/OFF/AUTO
Noise reduction	ON/OFF (level 5 to 1 / OFF, 6 steps)
Color Enhancement	ON/OFF
Aperture control	16 steps
Preset	6 positions
Serial interface	VISCA protocol (TTL/CMOS) 9.6 Kbps, 19.2 Kbps, 38.4 Kbps

DIMENSIONS

Unit : mm

