

# HM-P45 Series

Day & Night

Water Resistance of  
IR Color CCD Camera



The dual-glasses



The camera waterproofing setting box



The electric cable waterproofing nut is easy to construction

## Product Feature



Built-in double filter automatic switching device

- With 1/3" Panasonic D5 color CCD sensor.
- The image resolution is including 420 TV lines and 480 TV lines.
- The lens have 4, 6, 8 (12mm Option)/ F2.0 fixed focal lens.
- With 70 units IR LED and could makes the picture bright and shining.
- In a suitable condition, the effective detection distance is 40~45M.
- (Innovation design) In the camera waterproofing setting box, it sets the space for power source and the wiring and convenience construction.
- (Innovation design) The electric cable waterproofing nut, then completes by the simple tool, facilitates the construction.
- Built-in double filter automatic switching device (Option).
- With the glass separation (dual-glasses) could avoid the dirt and dust sticky on the glasses and caused the blur, atomization phenomenon and no clear appearance when IR starting.
- The infrared electric circuit with the patent special arrangement design. When one damaged, does not affect other infrareds the normal movement.
- With the electronic shutter, the back light compensation(BLC), the automatic gain control(AGC), automatic white balanced(AWB) function.
- The top cover and the main-body cover use the most hardness aluminum alloy manufacture.
- It has through the IP68 waterproofing, CE \ FCC and RoHS certified.



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FC CE

## Specification

Model	HM-P45-N	HM-P45-P	HM-P45-NH	HM-P45-PH
Pick-Up Element	1/3" Panasonic D5 color CCD sensor			
Number Of pixel	512(H)*492(V) <NTSC>	512(H)*582(V) <PAL>	771(H)*492(V) <NTSC>	753(H)*582(V) <PAL>
Resolution	420 TV lines		480 TV lines	
Min. Illumination	0.5Lux / F2.0 , 0Lux(40~45 meters IR ON)			
S/N Ratio	More than 48db (AGC off)			
Electronic Shutter	1/60 (1/50) to 1/100,000 sec			
Gamma	0.45			
Iris Mode	AES			
White Balance	AWB			
Video Output	1.0 Vp-p composite, 75Ω			
Lens	Standard 4,6,8mm(12,16mm option)			
BLC	Auto			
Sharpness	Sharp			
IR LED	70units (850nm IR LED)			
IP	IP-68			
Storage Temperature	- 30°C ~ 60°C			
Operating Temperature	- 10°C ~ 50°C			
Power Source	DC 12V±10%			
Current Consumption	90mA(IR OFF) ,690mA(IR ON)			
Weight	1230g			
IR Cut	Option			

