

EM-QN42H

7mm Industrial Color Camera

This OEM camera head was designed for easy integration into custom systems. Small size and various adaptable mainboards enable the EM-QN42H to be used in a wide range of applications.



Various Adaptable Mainboard and Control Options make integration easy.

3-meter Cable, available with additional leads or specialty connectors. 12-m extension available.



Camera Head, just 7mm in dia., fits through narrow openings.

Changeable Lenses, adapt camera to various applications.

Models	EM13412	EM13414
Signal	NTSC	PAL
Sensor	1/4" IT CCD	
Pixels	758(h) × 492(v)	752(h) × 582(v)
Chip Size	4.94 mm (h) × 3.69 mm (v)	
Scan Lines	525	625
Scan System	2:1 Interlaced	
Scan (H)	15.743 kHz	15.625 kHz
Scan (V)	59.94 Hz	50 Hz
Aspect Ratio	4:3	
Sensitivity	>20 lux (at f2.5 and 3000°K color temperature)	
Resolution (H)	470 lines	470 lines
Resolution (V)	350 lines	420 lines
Temp. Tolerance	0–40°C	
RH Tolerance	30–90%	

Lens Options

With ten lens options available for the EM-QN42H, you'll find the perfect one for any combination of target size and distance.



Focal Length		FOV (h \times v)	Focal Range
1.8 mm		115° \times 89°	5 mm - inf
2.2 mm		93° \times 71°	10 mm - inf
4.0 mm		51° \times 39°	20 mm - inf
8.0 mm		25.7° \times 19.4°	90 mm - inf
15.0 mm		13.7° \times 10.4°	350 mm - inf
15.0 mm Macro		13.7° \times 10.4°	63-70 mm
12.5 mm		16° \times 12°	200 mm - inf
20.0 mm		10° \times 7.5°	400 mm - inf
35.0 mm		5.6° \times 4.2°	500 mm - inf
70.0 mm		2.8° \times 2.1°	500 mm - inf

*extension tubes allow near focus

Specialty Modifications

Address many applications with camera modifications by iShot Imaging. These modifications equip your EM-QN42H for a variety of environments and conditions.



Off-Angle Cable Exits



Angled Body Splices



Body Shortening



Iris Modifications

Directional Viewing Adapters

See around corners in tight spaces with directional viewing adapters that attach to your camera lens.



View Direction		Optical System	Lens Required
90°		Prism	4, 8, 15 mm
90°		Roof Prism	8, 15 mm
110°		Prism	4, 8, 15 mm

Extension Tubes

Magnify your onscreen image simply by inserting an extension tube between the camera and lens.



Lengths 1/4" • 3/8" • 1/2" • 5/8" • 3/4"



Cooling



Waterproofing/Armor



Special Terminations



Inline Couplers



Cable Cladding/Extension



Auxiliary Leads

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