

Micro Head High Definition 4 : 3 Color Camera

DZ-VCA1U

50

- World's smallest and lightest HD camera; at least one fifth the size of other manufacturers
- High definition recording is possible with SR-W7U W-VHS VCR
- Practical system cost with monitor and recorder; similar to standard definition
- Uses include medical and industrial applications; Endoscopic examination, Micro surgery, Pathological microscopy, Arthroscopy, etc.
- Medical UL2601-1 certification
- 800 horizontal , 650 vertical TV lines resolution
- 4:3 aspect ratio
- Separate Camera head and camera control unit
- Camera head weighs 8.1 ounces, (230 g), measures 59 (W) x 79 (D) x 7 (H) mm
- High definition image generated by new 4 CCD dual green half pitch offset CCD system
- Positive / negative images
- Automatic sensitivity control (with over / under adjustment):
 - Normal
 - AGC: Automatic gain control
 - ALC: Automatic gain control + Automatic Iris
 - Manual
- White balance: Automatic red and blue adjust, manual, and pre-set 3200K or 5600K
- Laparoscope, Microscope and Arthroscopy System accessories:
 - Optional:
 - AA-V112U AC power adapter, power cable
 - AA-V31U Isolation transformer
 - GL-V61U Microscope adapter
 - GL-V62U 1/2 inch bayonet conversion adapter
 - GL-V63U Laparoscope adapter
 - GV-SCS1JU SCSI interface
 - VC-V3U 3 meter camera cable
 - VC-V10U 10 meter camera cable



Camera head approximate size.

CAMERA HEAD	
Image sensor	1/3" IT CCD
Picture elements	410,000
Lens mount	Special mount (Similar to C mount; flange back 28.0mm in air)
Video out	19 pin
Dimensions	59(W) x 71(H) x 79(D) mm (2-3/8" x 2-3/16" x 3-1/8")
Weight	230g (0.51 lbs.)
CAMERA CONTROL UNIT	
Scanning lines	1,125 (982 effective)
Scanning system	2:1 interlace
Scanning frequency	33.75 kHz horizontal, 60 Hz vertical
Resolution	More than 800 Horizontal and 650 Vertical TV lines
Signal to noise ratio	52 dB
Sensitivity	F5.6 at 2000 lux
Minimum sensitivity	F2.0 at 10 lux (+12dB gain, 1/30 sec shutter, 50% level
Gain range	-3 dB to +12 dB (1 dB steps)
Shutter	1/30, 1/60, 1/100, 1/175, 1/250, 1/375, 1/500, 1/1000, 1/2000

Freeze	Field freeze (with LED indicator)
Time display	Hour:minute:second
Date display	Year/Month/Date, Date/Month/Year, Month/Date/Year
Gamma correction	0.45, 0.48, 1.00 (off)
Sensitivity control detection	Wide, medium, spot, rectangle
Detail enhancement	Both vertical and horizontal (9 steps)
Master black adjust	9 steps
Power	DC in 12V, 1.3A
Dimensions	430(W) x 93(H) x 322(D) mm (16-15/16" x 3-11/16" x 12-11/16")
CONNECTIONS	
Camera input	20 pin
Genlock input	VS. / C.Sync (+/-0.3 Vp-p)
Video output	Y/P _B /P _R BNC x 3 and also R/G/B BNC x 3,
Sync output	TTL: HD BNC x 1, VD BNC x 1, Composite Sync BNC x 1 (+/- 0.3Vp-p based BTA S-001 HDTV standard)
Power	XLR 4 pin