

# 1/3" 3-CCD Separate Camera Head

## KY-F58U

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- 3-CCD RGB prism block with more than 1.3 million effective pixels, provides high resolution images
- High sensitivity means that images can be captured over a wide range of lighting conditions
- Complementing the Auto White-Balance function is intelligent Auto Iris which makes the KY-F58U particularly well-suited to microscopy and other applications which may have irregular reflections
- The CCU features an RGB image memory and framestore for internal capture and review of a single high quality still image. Optional SA-K58SU internal SCSI capture board also available.
- The KY-F58U has instant connectivity to a wide range of existing optical equipment thanks to its C-mount being a universal standard for lens to camera coupling. The camera head also includes connection for motorized lens control
- An RS-232C port is provided for direct connection to a PC, providing additional remote serial digital control
- The KY-F58U comes standard with a 16.4 feet (5 m) umbilical cord between head and CCU. This may be extended to 82 feet (25 m)
- Memory for up to 16 operator settings (scene files)
- Built-in key functions: Shutter iris/Full-time auto white/Freeze function/Random trigger function/Long time exposure function

Image pickup device:	1/3" Interline Transfer CCDs
Picture elements:	(H) 768 x (V) 494
Optical system:	1/3" F1.4 RGB prism
Color system:	Wideband R-Y, B-Y encoder
Synchronization:	Internal/external (VS: HD, VD)
Lens mount:	C-mount (FB: 17.526 mm)
Color bar:	SMPTE type
Sensitivity:	F5.6/2000 lux
Horizontal resolution:	700 TV lines
Signal to noise ratio:	60 dB
Minimum illumination:	15 lux
Gain:	0 - 18 dB
Electronic shutter speed:	1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000 variable scan
Iris area:	Variable
Scene file:	16 types, max.
Strobe connector:	Slave/through
RS-232C control:	D-sub 9-pin
Video signal output:	Composite, Y/C, RGB, Component
Power requirements:	120 V AC
Power consumption:	22 W
Dimensions (WxDxD):	Camera head: 45 x 48 x 62 mm (1-13/16" x 1-15/16" x 2-1/2") CCU: 210 x 88 x 221 mm (8-5/16" x 3-1/2" x 8-3/4")
Weight:	Camera head: 180 g (0.4 lbs.) CCU: 3 kg (6.7 lbs.)
Included accessories	Camera mounting bracket, AC cable
Camera cable options:	VC-P805U 16.4 ft/15 m (provided) VC-P810U 32.8 ft/10 m



CCU (Camera Control Unit)

## Optional Accessories



**SA-K58SU**  
Internal SCSI  
Capture board



**HZ-M161**  
Nikon microscope  
adapter  
For use with x2 series  
microscopes



**HZ-M162**  
Olympus microscope  
adapter  
For use with BH2  
series microscopes



**HZ-M163**  
Zeiss microscope  
adapter  
For use with AX10  
series microscopes



**HZ-G6350**  
Variable focal lens  
• C-mount for 1/3"  
3-CCD camera  
• Focal length:  
35 mm to 8.0 mm



**VC-451-2U**  
D-sub 9-pin  
RGB cable (2 m)



**T14X5.5MD**  
14:1 motorized  
zoom lens