

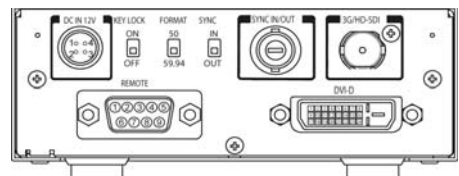
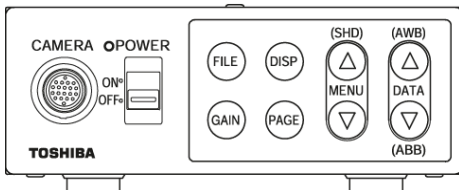
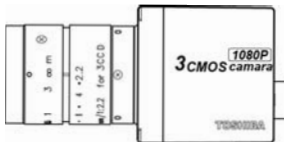
Toshiba IK-HD5H & IK-HD5E (preliminary)

Part# TO225 & TO226

- The flagship IK-HD5H 3CMOS camera head not only features Toshiba's signature Micro prism technology but also native HD 1080p/i resolution in every channel, twice the sensitivity and 25% improved S/N ratio in a ultra-small housing. And it doesn't end here. The all new CCU IK-HD5E introduces the use of an adjustable Knee and Clip functionality which alone doubles up the dynamic range so the user can experience sharp colour quality in both the blazing bright and the darker parts of the scene. And to round up this amazing package, Toshiba has added a 3G-SDI output to ensure full HD 1080p output. And if you thought this covers it all. Well, think again. The IK-HD5 includes a removable IR cut filter – a revolutionary feature that opens up a whole new range of fluorescence imaging applications.



- Features :**
- Microprism (3) 1/2.9" CMOS
- Full HD 1080p/1080i output
- 3G/HD-SDI & DVI-D (Digital RGB) Output
- Enhanced IR Sensitivity / Removable IR Cut filter
- Improved Dynamic Range/Knee & Clip Functionality



Scanning System	Progressive/Interlace
Scan Frequency	Horizontal : 56.250kHz, Vertical : 50Hz (1080p/50) Horizontal : 67.433kHz, Vertical : 59.94Hz (1080p/59.94) Horizontal : 28.125kHz, Vertical : 50Hz (1080i/50) Horizontal : 33.716kHz, Vertical : 59.94Hz (1080i/59.94)
Horizontal Resolution	1000 TVL
Vertical Resolution	1000 TVL
Sensitivity	F11 standard (2000 lx, 3000K at 50Hz); F10 standard (2000 lx, 3000K at 59.94Hz)
Minimum Illumination	8.0 lx (50 Hz setting) at F2.2 , 20dB, BINNING: OFF 9.6 lx (59.94Hz setting) at F2.2 , 20dB, BINNING: OFF 4.8 lx (59.94Hz setting) at F2.2 , 20dB, BINNING: ON 4.0 lx (50 Hz setting) at F2.2 , 20dB, BINNING: ON
S/N Ratio	56 dB standard (GAIN 0dB, DNR OFF, DTL Gain 0, GAMMA OFF, Matrix OFF and C.TEMP 5600K)
Output Signal	3G-HD-SDI; DVI-D (digital RGB); DVI-D terminal
External sync input	SYNC 3 values ± 0.3V ± 6dB 75 Ω unbalanced BNC connector Horizontal: 56.250 kHz ± 35ppm, vertical 50Hz ±35ppm (at 1080p/50Hz) Horizontal: 67.433 kHz ± 35ppm, vertical 59.94Hz ±35ppm (at 1080p/59.94Hz) Horizontal: 28.125 kHz ± 35ppm, vertical 50 Hz ±35ppm (at 1080i/50Hz) Horizontal: 33.716 kHz ± 35ppm, vertical 59.94 Hz ±35ppm (at 1080i/59.94Hz)
Sync signal output	SYNC 3 values ± 0.3V ± 0.1V 75 Ω unbalanced BNC connector Horizontal: 28.125 kHz ± 35ppm, vertical 50 Hz ±35ppm (at 50Hz) Horizontal: 33.716 kHz ± 35ppm, vertical 59.94 Hz ±35ppm (at 59.94Hz)
Interface	Serial data interface (compliant with RS-232C)
White Balance	AWB (Automatic White Balance); MANUAL
Gain	AUTO (Automatic gain control); MANUAL (Manual); OFF (0 dB)
Scene file	A,B,C,D,E
Power Supply	DC 12V±10%
Power Consumption	Approx. 10.3 W (including camera head) (with the power supply voltage of 12V)
Weight	Approx. 600 g (1.32 lbs)
Dimensions Camera Head	32.6mm (W) x 38.6 mm (H) x 41 mm (D)
Dimensions CCU	110mm (W) x 40 mm (H) x 186 mm (D)
Ambient Temperature	0 to 40° C (32 to 104° F)
Ambient Humidity	Less than 90% (non condensing)

Optional parts	
	AC-M601E Power Supply (medical)
	PSU-12V-1.5A Power Supply (non-medical)
	EXC – 3HD03 (Approx. 3m camera cable)
	EXC – 3HD06 (Approx. 6m camera cable)
	EXC – 3HD10 (Approx. 10m camera cable)
	EXC – 3HD15 (Approx. 15m camera cable)