

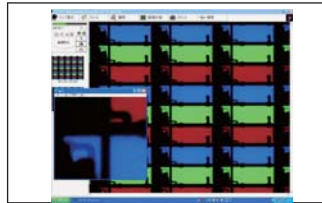
Measurement Camera



AH-33B	AH-80B	AR-140/AR-140B	AR-210/AR-210B	AR-300	AH-500/AH-500B
1/3" CCD	1/3" CCD	2/3" CCD	1/1.8" CCD	1/3" CMOS	2/3" CCD
VGA B/W	800K Pixel B/W	1.4M Pixels Color,B/W	2.1M Pixels Color,B/W	Full HD Color	5M Pixels, Color, B/W
640(H)x480(V)	1034(H)x779(V)	1280(H)x1024(V)	1624(H)x1236(V)	1920(H)x1080(V)	2456(H)x2058(V)
1pix 7.4um	1pix 4.65um	1pix 7.4um	1pix 4.4um	1pix 3.1um	1pix 3.45um
120fps	36.7fps	30fps	30fps	60fps	16fps
Camera Link 8bit	Camera Link 10bit	Camera Link POCL 10bit	Camera Link POCL 10bit	Camera Link POCL 10bit	Camera Link 8bit
C Mount	C Mount	C Mount	C Mount	C Mount	C Mount

Software

FivFs Image Filing Software



FivRec Motion Record Software



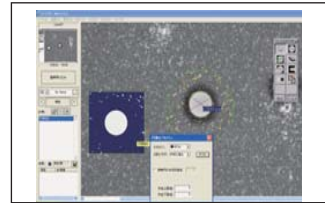
FivDk Depth Measurement Software



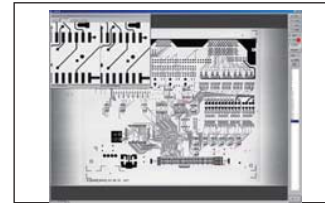
FivLw Line width measurement Software



FivMt 2 Dimensional Measurement Software



FivImp Comparison Inspection Software



! Safety warning Please read the user's operation manuals carefully before start using the equipment for proper operations.

FLOVEL 2012 NEW CAMERA LINEUP

Ultra High Sensitive

Ultra High Definitio

4K

3CCD

S-3D HD

High Speed

FLOVEL 2012 NEW CAMERA LINE UP

Ultra High Sensitive

1000 times more sensitive than normal CCD camera



EM-120H
Ultra High Sensitive EM-CCD HD Camera



ADT-100
EM-CCD 1M B/W



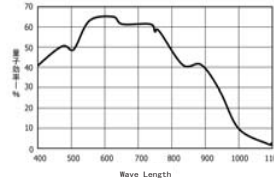
ADT-33S
EM-CCD VGA Color



HSB-130
CMOS 1.3M Color

Function

- High Sensitive Moving Images at 60/30fps
- Wide Range of Spectrum from ultra violet to infrared
- Peltier cooling system employed



Specifications

EM-120H	ADT-100	ADT-33S	HSB-130
2/3" EM-CCD	2/3" EM-CCD	1/2" EM-CCD	2/3" CMOS
1.2M pixels Color	1M pixels B/W	330K pixels Color	1.3M pixels Color
1280(H)x960(V)	1000(H)x1000(V)	658(H)x492(V)	1280(H)x1024(V)
1080/59.94i	30fps	60fps	30fps
HD-SDI 2 Output	Camera Link	NTSC,Y/G,DVI-D Camera Link	Camera Link
C Mount	C Mount	C Mount	C Mount
Appx. 2.3kg	Appx.720g	Appx. 900g	Appx. 720g

Ultra High Definition

Low Noise Ultra High Resolution Measurement Cameras

Ultra High Resolution digital CCD



ADK-1600BV
(16M 35mm size CCD)

ADK-2900BV **NEW**
(29M 35mm size CCD)

Ultra High Resolution piezo CCD

AKZ-M11 **NEW**
(116M piezo Camera)

AKZ-M26 **NEW**
(261M piezo Camera)



Functions

- Peltier cooling system employed
- 35mm large CCD and maximum 29M Pixels CCD
- Piezo type can capture maximum 261M Pixels

Specifications

ADK-1600BV	ADK-2900BV	AKZ-M11	AKZ-M26
35mm format CCD	35mm format CCD	35mm format CCD Piezo	35mm format CCD Piezo
16M Pixels B/W	29M Pixels B/W	116M Pixels B/W	261M Pixels B/W
4872(H)x3248(V)	6576(H)x5384(V)	13152(H)x10788(V)	19728(H)x16152(V)
1pix 7.4um	1pix 5.5um	1pix 5.5um(piezo2.75um)	1pix 5.5um(piezo1.83um)
3.1fps	4fps(Quad)	Appx. 1.3 sec	Appx. 3 sec
Camera Link 12bit	Camera Link 12bit	Camera Link 12bit	Camera Link 12bit
F Mount or M72 Mount	F Mount or M72 Mount	F Mount or M72 Mount	F Mount or M72 Mount

4 K

4 Times of full HDTV, Ultra High Resolution 60fps Camera



Large CMOS sensors, Modular type
MC-8000 **NEW**



Smaller CMOS sensors, Modular Type
MC-4000 **NEW**

Functions

- 4112(H) x 2168(V) pixels (8M) are 4times of full HD cameras, 1920(H)x 1080(V)
- Maximum 60fps optimum moving images reproduction

Specifications

MC-8000	MC-4000
Diagonal 19.547mm (1.25") CMOS	Diagonal 7.21mm (1/2.5") CMOS
3840(H) x 2160(V)	3840(H) x 2160(V)
1pix 4.2um	1pix 1.55um
60fps	60fps
CameraLink x 4, DVI-D Single x 4	CameraLink x 4, DVI-D Single x 4
F Mount/PL Mount	C Mount

3 CCD

High quality Color Reproduction Image Processing 3 CCD Camera



AR-630
2M X 3CCD Color CAMERA

Functions

- Dichroic Prism system will ensure excellent color reproduction
- 14 bit A/D quantization will enhance true color reproduction
- Applicable to Medical, Industrial or other various types microscopes as Bright Field Microscope to Fluorescent Microscope

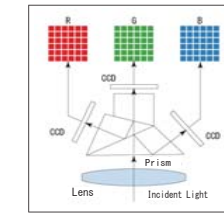
Specifications

AR-630
1/1.8" CMOS
Appx.2M Pixels ,3CCD Color
1624(H)x1232(V)xRGB
30fps
Camera Link
C Mount
Appx. 280g

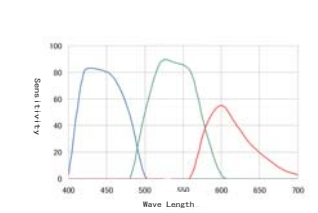
Applications

- Bio Specimen Observation
- Asbestos Inspection
- FPD Light Inspection
- Microscopic Inspection for electronics parts

■ Dichroic Prism



■ Typical Spectrum Response



Multiple HD Camera Systems

2 cameras complete synchronized operation systems for 3D applications

Functions

- CMOS Compact camera enables Close Up Shooting
- 2 cameras perfect synchronizations
- C Mount is ideal for operation microscope 3D shooting

Specifications

FDM-400
1/3" CMOS
Appx. 2M pixels color
1920(H)x1080(V)x2
30fps or 1080i
Camera Link ,HD-SDI, DVI-D
C mount
3Dout:Side by Side (Compressed), Line by Line

Applications

- Broadcast, Movie, Production 3D shooting
- Medical operation microscope 3D shooting
- Switch over shooting by multiple microscopes



FDM-400 **NEW**
S-3D FULL HD Camera Systems

High Speed Motion Analysis

500fps high speed camera systems

Functions

- High Speed Record & Play at 500 FPS (Frame Per Second)
- Easy operations by touch panel display
- All-in-one unit for Sports motion, industrial or Scientific phenomena analysis

Specifications

SPEED MINDER 500
CMOS Color
70fps(USGA),500fps(VGA)
Record 5 seconds motions
AVI self store method
C Mount

Applications

- Sports(Golf,Baseball,Field events etc)motion Analysis
- High Speed analysis for Industrial & Scientific phenomena



SPEED MINDER 500 **NEW**