



The HAS-DX (d-ten) is a high definition digital high speed camera equipped with a new image sensor.

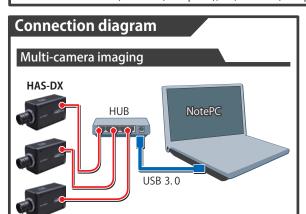
With a resolution of 2 mega pixels, high-speed shooting at 2,000 fps is possible.

Laptop PC can also be used by the connection with USB 3.0,
and it enables the easy operation of high-definition high-speed shooting.

- Capable of high-speed shooting at 2,000 fps with full HD
- High-speed interface enables live video confirmation without delay
- Record at short intervals with auto save trigger or random trigger
- Play back of slow motion video is available immediately after recording
- Support multi-camera synchronized shooting with external synchronization and external trigger
 - Ideal for stereo 3D motion analysis, 3D flow measurement with 3D PTV, and stereo PIV
 - Standard control software makes multi-camera video confirmation and control easy
 - · With a clear GUI that is conscious of tablet PCs, highly flexible field operation is possible

Full HD at 2,000 fps Maximum shooting speed at 100,000 fps

Frame rate and image size												
SIZE	Н	1,920	1,280	1,280	800	1,920	640	320	160	1,920	1,920	1,920
FPS↓	V	1,080	1,024	720	600	480	480	240	120	32	28	24
30							•		•			
•••			•		•							
2,000			•		•							
2,900					•							
3,500					•							
4,300												
8,400												
15,800												
43,700												
47,500												
52,000												
Can choose from 57,500 FPS(V20 pixel), 64,300 FPS(V16 pixel), 85,100 FPS(V8 pixel), 100,000 FPS(V4 pixel) [Horizontal 1920 pixel]												



Camera control software

Easy control is possible with touch panel layout support.

A number of functions such as live view rotation / grid display / gain / gamma / bit shift / white balance are available by one action.



Specifications								
Camera								
Camera type	Monochrome(HAS-DXM)							
	Color(HAS-DXC)							
AD	10 bit							
Sensor type	CMOS							
Effective resolution	1,920×1,080(Full HD)							
Sensor format	4/3 inch							
Lens mount	C-mount							
Interface	USB 3.0							
Exposure time	Minimum 1 μ sec							
Sensitivity	20 V / lx.s(mono) / 6 V / lx.s(color)							
Power delivery	DC 12 V(12 pin Connector)							
	AC Adapter(accessory)							
Body size	$82mm \times 110mm \times 185mm$							
Electric requirements	20 W							
Body weight	1,320 g(8 GB model)							
Recording memory	8 GB(16 GB as option)							
Supported trigger	TTL / Contact signal							
Camera control software								
Display mode	Live / Stop / Playback							
Recording mode	Normal / Endless loop							
Trigger mode	Start / End / Variable / Motion trigger							
Supported image format	AVI, WMV, MP4, BMP, JPEG, PNG							
Supported OS	Windows 8.1 / 10 / 11							

^{*}Specifications and external appearance may be subject to change without notice.

