

*Digital high speed camera*

# HAS-D71



## **8,000 fps at VGA resolution High sensitivity imaging enabled by a new image sensor**

The HAS-D71 is a high sensitivity digital high speed camera equipped with a new image sensor. It can handle 640 × 480 pixel resolution imaging at frame rates up to 8,000 fps. High sensitivity sensor enables clear high speed photography even in low light conditions.

- 640 x 480 pixel resolution imaging at 8,000fps
- Max 120,000fps at 640 x 12 pixel
- Well suited for low light conditions
- The high-speed USB 3.0 interface will give you a smooth flow of data
- A multi-camera setup is available with external synchronization and trigger
- Best for stereo PIV and stereo 3D experiments
- Easy operation and tablet GUI with multi-camera recording and viewing software
- PC-less recording is possible with hot swap function

# 640 × 480 pixel resolution at 8,000 fps

# High-speed imaging up to 120,000 fps

# A new high-sensitivity image sensor enables brilliant high-speed imaging.

## Product components



- ▶ Camera head
- ▶ Software
- ▶ USB3.0 cable
- ▶ AC adapter
- ▶ Trigger cable

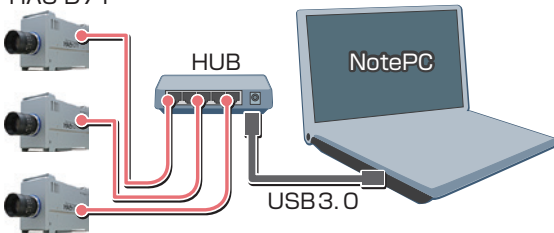
## Frame rate and image size

SIZE	H	640	640	640	640	640
FPS ↓	V	480	240	116	44	12
8,000		●	●	●	●	●
10,000			●	●	●	●
16,000			●	●	●	●
20,000				●	●	●
30,000				●	●	●
50,000					●	●
60,000					●	●
120,000						●

## Connection diagram

### Multi-camera imaging

HAS-D71



## 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 / pixel interpolation are available by one action.



## Specifications

### Camera

Camera type	Monochrome 12bit / Color 36bit
Sensor type	CMOS
Effective resolution	640 X 480 (VGA)
Sensor format	1 / 1.8 inch
Lens mount	C-mount
Interface	USB 3.0
Shutter speed(exposure time)	Minimum 1 μ
Sensitivity	38V/lx. s (mono) / 20V/lx. s (color)
Power delivery	12pin AC (battery as option) / 12V
Electric requirements	24 W
Body weight	1.2 kg(8GB model)
Body size	73mm × 118mm × 187.4mm
Recording memory	8GB (16GB as option)
Supported trigger	TTL & switch

### Camera control software

Display mode	Live / Stop / Playback
Recording mode	Normal / Endless loop / Hot swap
Trigger mode	Start / End / Variable / random
Supported image format	AVI, WMV(video), BMP, JPEG(sequential still image)
Supported OS	Windows 7, Windows8 / 8.1, Windows10

\*Specifications and external appearance may be subject to change without notice.



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