

# ProFUSION 25

## 5x5 Digital Camera Array



POINT GREY  
RESEARCH



ViewPLUS

- The world's first PCI Express camera
- More than 200 megabytes per second
- 25 VGA cameras in 5x5 arrangement
- High quality lenses
- Supports desktop and notebook PCs

ProFUSION 25, designed and manufactured by ViewPLUS Inc., is a 5x5 camera array system with 25 VGA resolution cameras housed inside a very compact body. It is also the world's first camera connected with a PCI Express external cable. This connection provides more than 200MB/s effective bandwidth and transfers all 25 images at 25 FPS to the PC.



### SPECIFICATIONS

<b>Arrangement</b>	5x5 with 12mm spacing
<b>Imaging Sensor</b>	Micron MT9V022 1/3" wide-VGA CMOS with global shutter
<b>Output Resolution</b>	640x480x25
<b>Frame Rate</b>	25 FPS
<b>Output Image Format</b>	8bit raw digital data
<b>Gain</b>	Automatic/Manual Gain modes
<b>Shutter</b>	Automatic/Manual Shutter modes
<b>Interface</b>	PCI Express x1 External Cable
<b>Power Consumption</b>	15W
<b>Lens</b>	Mega Pixel Resolution Micro Lens
<b>Focal Length</b>	5.34mm (F/2.8)
<b>Field of View</b>	36.8°HFOV, 28.0°VFOV
<b>IR Cut Filter</b>	Color Model Only
<b>Dimensions</b>	90 x 90 x 60 mm
<b>Mass</b>	500 grams
<b>Compliance</b>	RoHS
<b>Warranty</b>	One (1) year

### INTERFACE CARDS

<b>Desktop PC</b>	PCI Express x1: PCIe x1 external cable connector and camera power connector
<b>Notebook PC</b>	ExpressCard/34: PCIe x1 external cable connector and camera power connector

### RECOMMENDED SYSTEM CONFIGURATION

- Intel Core 2 Duo 2GHz or compatible processor
- 1GB of RAM
- Video card with more than 256MB video memory with programmable shader
- Windows XP Service Pack 2
- PCI Express x1 compatible slot or Express Card/34 slot
- Microsoft Visual Studio 2005 (compile and run sample code)

### PROFUSION 25 SYSTEM COMPONENTS

- ProFUSION 25 5x5 camera array system
- ProFUSION SDK (C/C++ API and device drivers) CD
- PCI Express x1 External Cable 3m (for use with ProFUSION 25 only)
- Power supply cable
- Interface card for Desktop PC
- Interface card for Notebook PC
- AC Adapter



### OPTIONS

- ProFUSION SDK for Macintosh
- ProFUSION SDK for Linux

### MODEL NUMBERS

- ProFUSION-25M: BW Type
- ProFUSION-25C: Color Type