FOculus

Always a new perspective

# FO442SB/SC

## FO442SB/SC

www.net-gmbh.com

### IEEE1394 Digital CCD Camera

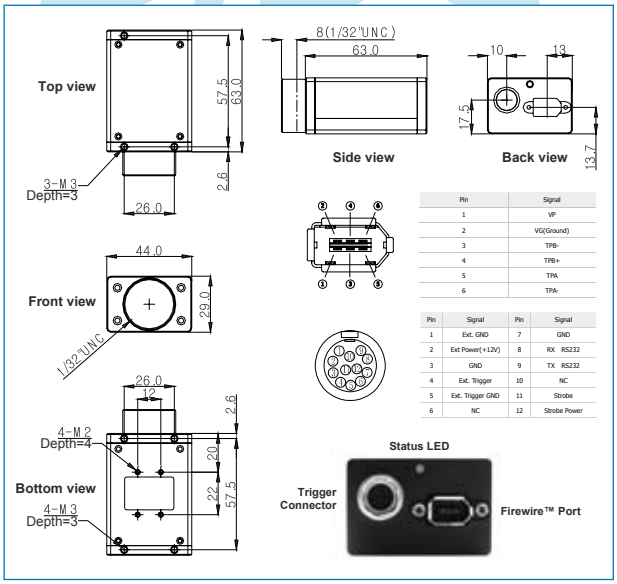
- *2/3" Progressive Scan CCD Image Sensor*
- *Resolution 1,450,000 (square pixel) SXGA*
- *IEEE1394.a acc. IIDC v.1.31 Interface*
- *FO442SB =B/W • FO442SC =Color*
- *External Trigger*
- *Frame Rate 20fps*
- *Partial Scan*
- *Camera setting via IEEE1394 Interface*
- *Opto - Isolated I/O*
- *Compact, solid and highly shock-resistant casing*
- *Industrial Lock Screw Support*
- *Application:*
  - Machine Vision
  - Factory Automation
  - Quality Control
  - Semi Con Inspection
  - Microscopy + Medical
  - Barcode, OCR, OCV
- *Free Application Software and SDK*

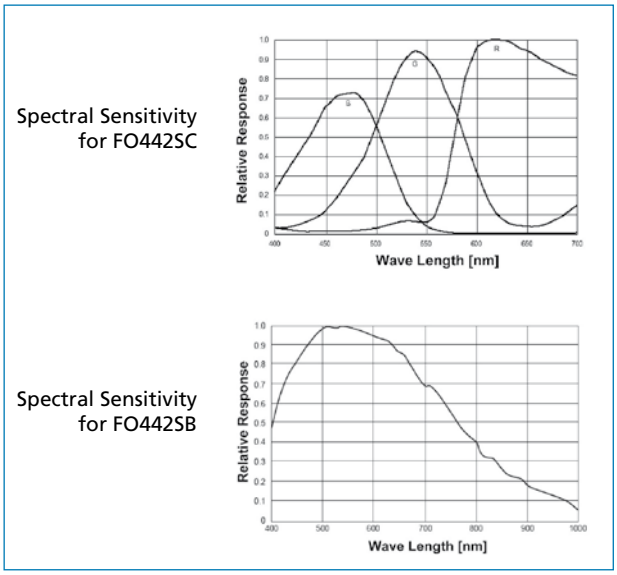
NET
NEW ELECTRONIC TECHNOLOGY

# Technical Data

FO442SB/SC

| | FO442SB (B/W) | FO442SC (Color) |
|---|---|---|
| Image Sensor | 2/3" IT CCD ICX285AL | 2/3" IT CCD ICX285AK |
| Effective pixel | 1.450,000 pixel, 1392 (H) x 1040 (V) SXGA | |
| Data Path | 8bit or 12bit B/W | 8bit or 12bit Raw RGB / YUV422 |
| Pixel Size | 6.45 (H) x 6.45 (V) µm | |
| Scanning System | Progressive Scan | |
| Frame Rate | 20fps (format7) / 15 / 7.5 / 3.75 / 1.875 fps | |
| Synchronization | Internal | |
| Digital Interface | IEEE1394a | |
| Software Interf. | Acc. IIDC v. 1.31 | |
| Gain Control | Manual: 0 ~ 25 dB; Auto Gain | |
| Gamma | 0.4 ~ 2.5 | |
| Strobe Output | Yes | |
| S/N Ratio | 56 dB or better | |
| Power Supply | + 8 VDC to + 30 VDC via the IEEE1394 cable | |
| Transfer Rate | 400 Mbps | |
| Trigger Mode | Software or External Trigger / Mode 0 ~ 5; 14 | |
| Shutter Speed | Manual: 1 µsec ~ 65 sec; Auto Shutter | |
| Advanced Features | Pixel Binning (only B/W); RS232 (SIO/Pass through); ROI; One Shot & Multi Shot; Multi Camera Auto Sync; Opto-Isolated I/O; Industrial Lock Screw Support | |
| Operating Temperatur | - 5°C to + 45°C | |
| Regulations | FCC, CE, RoHS | |
| Lens Mount | C-mount | |
| Dimension | 44 (W) x 29 (H) x 63 (D)mm / Approx. 110g | |




**Accessories:** *• IEEE 1394 cable, 6-pin • SDK (Software Development Kit) • OHCI Card • Tripod Adapter Plate • Trigger Cable 12-pin*

## Contact

**New Electronic Technology**
Vertriebsgesellschaft mbH
Lerchenberg 7 • D-86923 Finning

Fon +49 8806 92 34-0
Fax +49 8806 92 34-77
info@net-gmbh.com

***www.net-gmbh.com***

**NET USA, Inc.**
3037 - 45th Street
Highland, IN 46322

Fon +1 219 934 90 42
Fax +1 219 934 90 47
info@net-usa-inc.com

***www.net-usa-inc.com***

NEW ELECTRONIC TECHNOLOGY