## TECHNICAL DATA

**Image Sensor**
- 1/3" Progressive Scan Interline CCD, Type: ICX 424 AL-6

**Video Output**
- 648 (h) x 494 (v) VGA
- High speed image output, 60 fps
- Random Trigger Shutter (RTS)
- Restart/reset, internal/external sync
- Multiple shutter
- Partial scan mode
- Ultra compact and lightweight

### APPLICATION
- Machine vision
- Factory automation
- Quality control

### MECHANICAL SPEC
- External dimension 29(W) x 29(H) x 39.5(D) mm
- Weight approx. 42g
- Lens mount C-Mount

### INTERNAL SYNC SIGNAL SPEC
- Base clock frequency: 24.545 MHz (1CLK) +/- 200 ppm
- H sync frequency: 31.45 MHz (1H=780CLK)
- V sync frequency: 59.94 Hz (under non-interlace), 119.88 Hz (under 2:1 interlace)

### EXTERNAL SYNC SIGNAL SPEC
- Ext. sync input signal: HD/VD
- Input level: 2 - 5 V (p-p) / 2 - 4 V (p-p) / 75 Ohm
- Input impedance: 750 ohm / high impedance, 10k Ohm (switching via rear-panel SW), (initial factory setting: high)
- Interface: 1/60s non-interlace or 1/120s 2:1 interlace

### AMBIENT CONDITION
- Operation: -5°C to 45°C / humidity 10% to 90% (no condensing)
- Storage: -20°C to 60°C / humidity 10% to 90% (no condensing)
- EMI: conform to EN61000-6-4

### ELECTRONIC SHUTTER SPEC
- Normal shutter: shutter speed setting via rear-panel SW (Initial: OFF)
- 8 steps selectable (= OFF, 1/200, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/20.000s)
- Multiple shutter: multiple shutter via ext. trigger signal and ext. VD signal
- Restart / reset: restart / reset available via ext. VD signal (switching via rear-panel DIP SW, initial: OFF)

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Technical changes, errors and omissions excepted. 10/2011
RELATIVE SPECTRUM RESPONSE
*Including lens characteristics, excluding light source characteristics