

# CS4000B series

Remote head type CCD  
B/W CAMERA

## Key Feature

- Compact and light weight camera head
- Single CCU for 6 kinds of camera head
- Electronic shutter
- 2 kinds of cable length and extension cable
- AGC (Automatic Gain Control)
- Restart/Reset
- SS (Special shutter) and RTS (Random Trigger Shutter)
- External synchronization



## Specifications

|                         | CS4200B                                                 | CS4300B                   | CS4301B | CS4310BV | CS4310BY | CS4410BY                          |
|-------------------------|---------------------------------------------------------|---------------------------|---------|----------|----------|-----------------------------------|
| TV system               | EIA                                                     |                           |         |          |          |                                   |
| Image sensor            | Interline CCD                                           |                           |         |          |          |                                   |
| Active pixels           | 768(H) x 494(V)                                         |                           |         |          |          |                                   |
| Scanning area           | 6.4(H) x<br>4.8(V) mm<br>( 1/2 type)                    | 4.8(H) x 3.6(V)(1/3 type) |         |          |          | 3.65(H) x<br>2.74(V)(1/4<br>type) |
| Scanning lines          | 525 lines                                               |                           |         |          |          |                                   |
| Sync system             | Internal / External Automatic switch-over               |                           |         |          |          |                                   |
| Scanning frequency      | Horizontal:15.734kHz,Vertical:59.94Hz                   |                           |         |          |          |                                   |
| Illumination (Standard) | 100 lx,F5.6                                             | 150 lx,F5.6               |         |          |          | 300 lx,F5.6                       |
| Illumination (Minimum)  | 0.5 lx, F1.4                                            | 0.75 lx, F1.4             |         |          |          | 1.5 lx, F1.4                      |
| Video output            | VBS: 1.0 V (p-p) /75ohm                                 |                           |         |          |          |                                   |
| Resolution              | Horizontal:570TV lines,Vertical:485 lines (350TV lines) |                           |         |          |          |                                   |
| S/N                     | 50 dB (Standard)                                        |                           |         |          |          |                                   |
| Power source            | DC 12V +/- 10 %                                         |                           |         |          |          |                                   |
| Current consumption     | Approx. 400 mA                                          |                           |         |          |          |                                   |

|                                     |                                       |                                       |                                       |                                      |    |    |
|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|----|----|
| Lens mount                          | Special mount<br>(M15.5<br>P0.5 Male) | Special mount<br>(M10.5<br>P0.5 Male) | Special mount<br>(M10.5<br>P0.5 Male) | Special mount (M10.5 P0.5<br>Female) |    |    |
| Cable length                        | 3m,5m                                 | 3m,5m                                 | 3m                                    | 3m                                   | 3m | 3m |
| External dimension<br>(Camera head) | Ø17 x<br>36.2(D)<br>mm                | Ø12 x<br>39.4(D)<br>mm                | Ø12 x<br>25.4(D)<br>mm                | 20(W) x 20 (H) x 25.8(D)mm           |    |    |
| External dimension<br>(CCU)         | 110(W) x 28(H) x 156(D) mm            |                                       |                                       |                                      |    |    |
| Weight<br>(Camera head)             | Approx. 16g                           | Approx. 11g                           | Approx. 16g                           | Approx. 11g                          |    |    |
| Weight (CCU)                        | Approx. 450g                          |                                       |                                       |                                      |    |    |

#### ■ Specifications (CCIR type)

|                                     | CS4200BC                                                | CS4300BC                           | CS4301BC                           | CS4310BCV                         | CS4310BCY |
|-------------------------------------|---------------------------------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------|
| TV system                           | CCIR                                                    |                                    |                                    |                                   |           |
| Image sensor                        | Interline CCD                                           |                                    |                                    |                                   |           |
| Active pixels                       | 752(H) x 582(V)                                         |                                    |                                    |                                   |           |
| Scanning area                       | 6.4(H) x 4.8(V) mm<br>( 1/2 type)                       | 4.8(H) x 3.6(V)( 1/3 type)         |                                    |                                   |           |
| Scanning lines                      | 625 lines                                               |                                    |                                    |                                   |           |
| Sync system                         | Internal / External Automatic switch-over               |                                    |                                    |                                   |           |
| Scanning frequency                  | Horizontal:15.625kHz,Vertical:50.0Hz                    |                                    |                                    |                                   |           |
| Illumination<br>(Standard)          | 100 lx,F5.6                                             | 150 lx,F5.6                        |                                    |                                   |           |
| Illumination<br>(Minimum)           | 0.5 lx, F1.4                                            | 0.75 lx, F1.4                      |                                    |                                   |           |
| Video output                        | VBS: 1.0 V (p-p) /75ohm                                 |                                    |                                    |                                   |           |
| Resolution                          | Horizontal:560TV lines,Vertical:575 lines (410TV lines) |                                    |                                    |                                   |           |
| S/N                                 | 50 dB (Standard)                                        |                                    |                                    |                                   |           |
| Power source                        | DC 12V +/- 10 %                                         |                                    |                                    |                                   |           |
| Current consumption                 | Approx. 400 mA                                          |                                    |                                    |                                   |           |
| Lens mount                          | Special mount<br>(M15.5 P0.5 Male)                      | Special mount<br>(M10.5 P0.5 Male) | Special mount<br>(M10.5 P0.5 Male) | Special mount (M10.5 P0.5 Female) |           |
| Cable length                        | 3m,5m                                                   | 3m,5m                              | 3m                                 | 3m                                | 3m        |
| External dimension<br>(Camera head) | Ø17 x 36.2(D) mm                                        | Ø12 x 39.4(D) mm                   | Ø12 x 25.4(D) mm                   | 20(W) x 20 (H) x 25.8(D)mm        |           |

|                          |                            |            |            |            |
|--------------------------|----------------------------|------------|------------|------------|
| External dimension (CCU) | 110(W) x 28(H) x 156(D) mm |            |            |            |
| Weight (Camera head)     | Approx.16g                 | Approx.11g | Approx.16g | Approx.11g |
| Weight (CCU)             | Approx. 450g               |            |            |            |