

TOSHIBA

IK-TF9C

3-MEGA PIXEL 3 CCD COLOR CAMERA



3-MEGA PIXEL

3 CCD

PROGRESSIVE SCAN

COLOR CAMERA

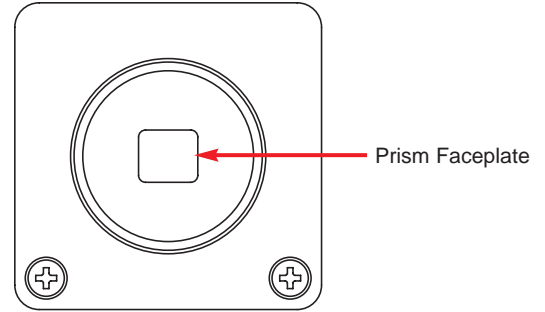
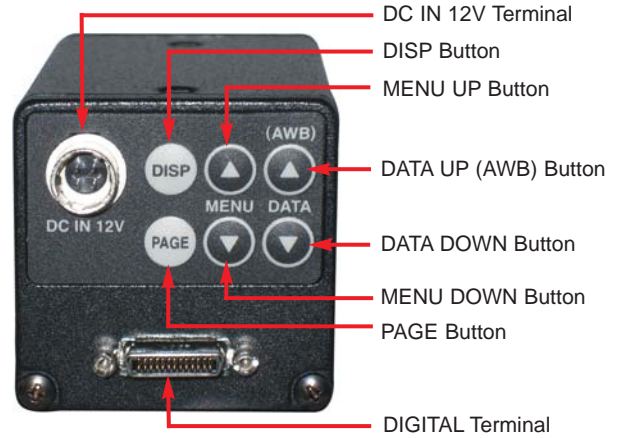
- > 3 Progressive Scan CCD Sensors
- > Output Resolution of 2048 x 1536
- > Video Output – Camera Link
- > 20 frames/sec (full frame)
- > Partial Scan 30 frames/sec and 40 frames/sec
- > Ultra Compact Size
- > On-screen and RS-232 Setup
- > Asynchronous Reset
- > Pulse Width Trigger
- > C-Mount Lens Mount

IK-TF9C

3 MEGA PIXEL 3CCD COLOR CAMERA

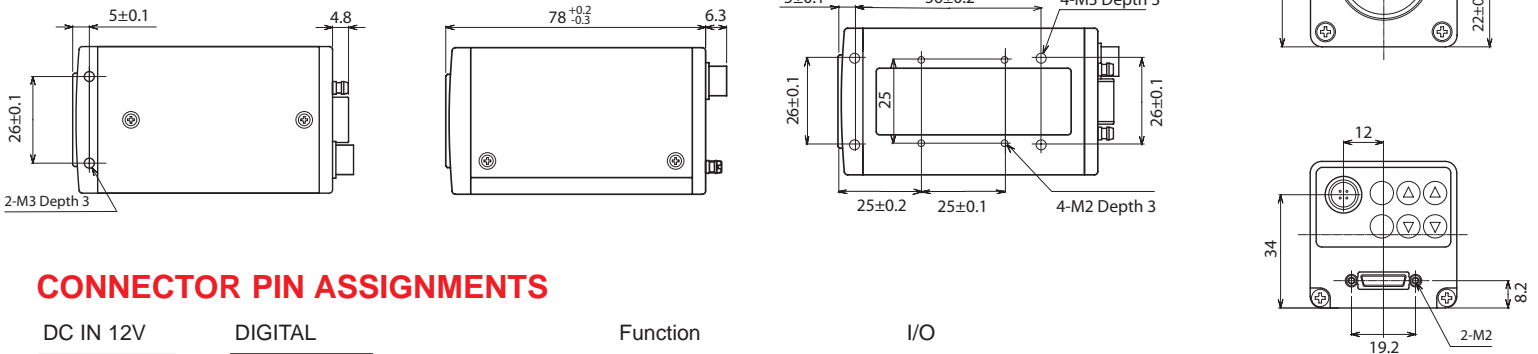
SPECIFICATIONS

| | |
|----------------------|--|
| Scanning System | Progressive Scan |
| Image Sensor | 3 x 1/3" CCD |
| Effective Pixels | 1034 x 779 |
| Output Pixels | 2048 x 1536 (by way of 1/2 pixel offset) |
| Frame Rate | 20 frames per second (full frame) |
| Partial Scan | 30 fps (972 lines); 40 fps (644 lines) |
| Pixel Size | 4.65 μm (H) x 4.65 μm (V) |
| Clock | 80.87 MHz |
| Output Interface | Camera Link |
| Output Signal | 8-bit RGB |
| Sync Signal Output | FVAL/LVAL/DVAL |
| Gamma Correction | Yes |
| White Balance | AWB/Manual |
| Gain | Manual, OFF (odB) |
| Input Power | 12VDC +/- 10% |
| Minimum Illumination | 10 Lux at F2.2 |
| Lens Mount | C-mount |
| Ambient Temp. | 0°C - 40°C |
| Ambient Humidity | Less than 90% |
| Weight | 165g |
| Dimensions | 44 mm x 44 mm x 78.3 mm |



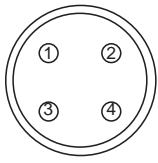
DIMENSIONS

Measurements in Millimeters

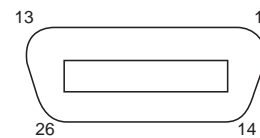


CONNECTOR PIN ASSIGNMENTS

| DC IN 12V | DIGITAL | Function | I/O |
|-----------|-----------|------------|------------------------------------|
| 1 +12V | 1 GND | 14 GND | - |
| 2 +12V | 2 X0- | 15 X0+ | O |
| 3 GND | 3 X1- | 16 X1+ | O |
| 4 GND | 4 X2- | 17 X2+ | O |
| | 5 Xclk- | 18 Xclk+ | O |
| | 6 X3- | 19 X3+ | O |
| | 7 SerTC+ | 20 SerTC- | Serial communication control (RXD) |
| | 8 SerTFG- | 21 SerTFG+ | Serial communication control (TXD) |
| | 9 CC1- | 22 CC1+ | Trigger pulse input |
| | 10 CC2+ | 23 CC2- | Partial scanning control |
| | 11 CC3- | 24 CC3+ | NC |
| | 12 CC4+ | 25 CC4- | NC |
| | 13 GND | 26 GND | - |



Connector used:
HR10A-7P-4PB
(HIROSE electronics
Co. Ltd.) or equivalent



Connector used:
12226-51000-00 (3M)
or equivalent