IMC-xxxF camera series are an IEEE-1394 compliant (Firewire™) progressive area scan color CCD camera designed for industrial imaging applications.

IMC-xxxF cameras use IEEE-1394 interface to streamline the capture, digitization and processing of color video.

The cameras are designed to simplify real-time uncompressed video streaming, digital still image acquisition while maintaining high resolution in various applications.

The cameras are equipped with a C Type Lens Mount for flexible use of C-Mount Industrial Lenses.

Applications are machine vision, robotic control, microcopy, RFID, and inspection, etc.

- **Device Structure**
  - 1/2 inch Interline CCD for IMC-140F
  - 1/3 inch Interline CCD for IMC-80F
  - 1/4 inch Interline CCD for Fire-i400

- **Digital Interface**
  - Standard IEEE1394 Digital Camera specification and IEEE1394 Digital Interface up to 400Mbps data transfer rate

- **Frame Rate**
  - 7.5 fps at active 1360 x 1032 pixels for IMC-140F
  - 15 fps at active 1024 x 768 pixels for IMC-80F
  - 30 fps at active 640 x 480 pixels for Fire-i400

- **Others**
  - Low Smear and excellent antiblooming
  - Continuous variable-speed shutter
  - High sensitivity and Low dark current
  - C-Mount Type
### Features

<table>
<thead>
<tr>
<th></th>
<th>IMC-140F</th>
<th>IMC-80F</th>
<th>Fire-i400</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image Device</strong></td>
<td>1/2-inch Interline Wfine CCD</td>
<td>1/3-inch Interline Wfine CCD</td>
<td>1/4-inch Interline Wfine CCD</td>
</tr>
<tr>
<td><strong>Effective pixels</strong></td>
<td>1,450,000 pixel 1392 (H) x 1040 (V)</td>
<td>800,000 pixel 1034 (H) x 779 (V)</td>
<td>330,000 pixel 659 (H) x 494 (V)</td>
</tr>
<tr>
<td><strong>Picture Size, Resolution</strong></td>
<td>SXGA, XGA, SVGA, VGA</td>
<td>XGA, SVGA, VGA</td>
<td>VGA, QVGA, QCIF</td>
</tr>
<tr>
<td><strong>CELL size</strong></td>
<td>4.65um x 4.65um</td>
<td>4.65um x 4.65um</td>
<td>5.60um x 5.60um</td>
</tr>
</tbody>
</table>

**Scanning system**: Progressive Scan

**Frame rate**: 7.5 fps at full resolution 15 fps at full resolution 30 fps at full resolution

**Synchronization**: Internal

**Lens mount**: C-mount

**Digital Interface**: IEEE 1394 2(Two) Ports

**Gain Control**: AGC (0–18 dB), FIX (0dB), Manual (0-18dB) Auto

**White Balance**: Auto or Manual

**Shutter Speed**: 1/20,000 ~ 2 sec 1/3,000 ~ 1/30 sec

**Gamma**: 1.0 (Factory setting)

**Min. Illumination**: 22Lux at F1.4 15Lux at F2.0 20Lux at F2.0

**S/N ratio**: 56dB or better

**Power supply voltage**: 12VDC from IEEE1394 Cable

**Power Consumption**: 3.5 W at 12VDC approx. 1 W at 12VDC

**Weight**: 300gr. Approx. 200 gr. Approx.

**External Dimensions**: 64 (W) x 64 (H) x 60 (D) mm 44(W)x32(H)x92(D)

**Operation Temp.**: -5 to + 45 °C

**Storage Temp.**: -20 to + 60 °C

**Regulations**: FCC, CE, MIC

**Supplied Accessories**: Lens cover, OLPF, User’s Manual

---

**IMC-80F / IMC-140F**

1. POWER
2. OLPF
3. Tripod Adaptor
4. OLPF
5. Tripod Adaptor
6. Tripod Adaptor
7. Tripod Adaptor

**Fire-i400**

1. POWER
2. OLPF

**Composition**

1. Camera with Cover
2. OLPF

**Optional accessories**

1. OHCI Card
2. IEEE1394 Cable
3. Tripod adaptor

*Specifications are subject to change without notice.*

*Custom cameras are available upon request.*

---

For Sales Inquiry, Contact our Headquarters or Export Distributors.

---

IMI TECHNOLOGY CO., LTD.  # 2 Eun-Seok Bldg.  729-1 Yeoksam-dong, Gangnam-gu, Seoul 135-080, Korea  Tel : 82-2-539-6227  Fax : 82-2-539-6358  Email : w3master@imi-tech.com  Website : www.imi-tech.com