Incam E-Sports camera system produces the high quality video, it develops the standalone micro camera to a new live production system with the central transmission and central control design, can meet the increasing E-Sports dedicated demand.

One operator control six micro cameras

1 operator run the multiple camera system to realize the central transmission and central control, 1 fiber cable connect the 6 channel of HD camera, alternative support 1 channel of 4K camera + 2 channel of HD camera, seamless integration the new E-Sports program with the familiar traditional live production workflow.

System signal and components:

- Support 6x3G/HD/SD-SDI, as well as 1x4K by the 4 of 3G-SDI, each port has the loop output
- Support 6 camera control signal, which includes the camera power
- Support 1 OCP control the 6 cameras individually, one person can adjust the painting and lens function of camera
- High SDI signal quality with EQ and Re-clock process, pass the pathological signal for the high performance signal, minimal jitter and eye pattern degradation
- System is supplied the SE200T TX unit and SE210R RX unit, Incam micro camera, OCP-20 camera control panel, OCP-10 camera selection panel

E-Sports application

The camera system adopt the traditional live production workflow, it easily integrates into a familiar live event ecosystem, operating as a broadcast camera system, makes the new E-Sports brilliant.

Player close-ups
Sports scene

HD multi-format @50/60i, 50/50P
4K multi-format @50/60P

System concept diagram

6 channel of HD camera
1 operator
1 fiber

IVHD-1000
Micro camera
HD @50/60i, 50/50P
including Wide angle lens, Lens drive kit

SE200T
Fiber unit (Far end)
6 x 3G/HD/SD-SDI
6 x camera control signal

SE210R
Fiber unit (Near end)
6 x 3G/HD/SD-SDI
1 x camera control signal
GPI signal to specify the camera

OCP-10
Camera selection control panel
Select the one camera from 6 cameras

OCP-20
Camera control panel
Picture parameter
Lens parameter
Scene save
System components and specification

**Full HD camera IVHD-1000**
- Full HD 1920 x 1080, 1080p and 1080i, multi format
- Sony 1/1.8 inch CMOS, Global shutter, C mount
- Successful signal processing algorithms, various parameter, excellent picture quality
- 3G /HD-SDI interface, external / internal sync
- Dimension: 29 × 29 × 77mm
- 4K micro camera IV4K-4000 is one of the option

**Camera operation control panel OCP-20**
- Full function control panel including real-time feedback of parameters from camera and lens for paint/shading
- Various parameters for precise adjustment: Shutter, Gain, R/B level, color temp, master pedestal, black/white balance, focus/iris lens control, multi preset of camera setting etc.

**Camera selection control panel OCP-10**
- Select one camera from six sets, specify the camera to be controlled by OCP-20

**SE200 Fiber unit**
- SE200 includes SE200T TX unit and SE210R RX unit
- 6 x 3G/HD/SD-SDI, each port has the loop output
- 6 x camera control signal including camera power
- 1 fiber cable transmit all signal
- High SDI signal quality, pass the pathological signal for the high performance signal

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<thead>
<tr>
<th>SE200 Spec</th>
<th>IVHD-1000 Spec</th>
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<tr>
<td>General</td>
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</tr>
<tr>
<td>1 RU, depth 273mm, approx. 3.5Kg</td>
<td>DC+9~+15V, 4W, approx. 92 g, 29 × 29 × 77mm</td>
</tr>
<tr>
<td>Power</td>
<td>sensor</td>
</tr>
<tr>
<td>15W(max), 2 power input (AC 100~240V)</td>
<td>1/1.8&quot; Sony global CMOS</td>
</tr>
<tr>
<td>Op temp</td>
<td>Lens mount</td>
</tr>
<tr>
<td>0°C ~ +40°C</td>
<td>C/CS</td>
</tr>
<tr>
<td>Fiber port</td>
<td>Fiber port</td>
</tr>
<tr>
<td>LC, wavelength 1310~1610nm, single mode</td>
<td>1080p@60/59.94/50/25fps;1080@60/59.94/50i</td>
</tr>
<tr>
<td>Fiber distance</td>
<td>Sensitivity</td>
</tr>
<tr>
<td>0~20 km or requirement</td>
<td>F5.6, 2000lx</td>
</tr>
<tr>
<td>SE200T interface</td>
<td>SE210R interface</td>
</tr>
<tr>
<td>SDI x 6 IN, camera control x 6</td>
<td>SDI x 66 OUT, camera control x 1, GPI control x 1</td>
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<tr>
<td>SE120R interface</td>
<td>SDI interface</td>
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<tr>
<td>SDI x 66 OUT, camera control x 1, GPI control x 1</td>
<td>3G-SDI(Level A/B), HD-SDI</td>
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<tr>
<td>SDI standard</td>
<td>SDI interface</td>
</tr>
<tr>
<td>3G/HD/SD-SDI, loop out for each port</td>
<td>LTC, sync, power. Power from SE200T.</td>
</tr>
<tr>
<td>SMPTE 424M, 292M, 259M, DVB-ASI</td>
<td>OCP-20 Spec</td>
</tr>
<tr>
<td>SDI EQ</td>
<td>General</td>
</tr>
<tr>
<td>Automatic to 100m @3GHz, Belden 1694A</td>
<td>DC 9-18 V, 2W, 275x102x68mm</td>
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<tr>
<td>SDI alignment jitter</td>
<td>Data interface</td>
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<tr>
<td>&lt;0.2UI (re-clocked) @ 1.5Gb/s</td>
<td>RS422/RS232/PWR</td>
</tr>
<tr>
<td>&lt;0.3UI (re-clocked) @ 2.97Gb/s</td>
<td>Power interface</td>
</tr>
<tr>
<td></td>
<td>PWR IN for DC in</td>
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</tbody>
</table>

Features, design, and specifications are subject to change without notice.

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