- Integrated Java HMI
- Web enabled remote data access
- Displays data graphically over Ethernet connections
- Bright TFT displays from 8" to 17"
Advanced Industrial Visualization

The iPanel™ is CTC's next-generation touch panel for industrial visualization and interactive control. It combines a rugged all steel and aluminum enclosure with state-of-the-art graphics and networking features and plenty of memory for a no-compromise HMI solution. Move up to an iPanel and get better resolution, better color density, better touchcell density, better connectivity, and a better value.

- Industry-leading resolution and brightness
- Rugged NEMA 4 / IP65 all metal construction
- Fully integrated hardware and software solution

**A product family to fit your needs**

Choose from among six different iPanel models, to fit your needs for size, resolution, and price.

**Dynamic, informative displays**

The iPanel features a wide variety of brilliant colorful objects that enhance the appearance and usability of the touchpanel.

**Point and click operation**

iPanel is easy to configure for operation in environments where keyboards are undesirable. Mouse-driven batch selector knobs can download recipes; touching an analog value calls up a touchscreen driven keypad if the user is authorized to edit the value.
Powerful Connections

- Automatically finds and communicates with controllers and other iPanels
- Allows concurrent web/network access
- Communicates with multiple devices simultaneously

Remote control
Select, edit, and run iPanel projects from remote locations. You can even remotely load updated versions of the iPanel firmware over a network server. Thin-client iPanels can be configured to run projects from a central server.

Multiple devices
A single iPanel can simultaneously interact with a wide variety of different devices.

PLC drivers
With support for more than 300 PLC devices, iPanels easily connect to all of your automation equipment. Plus, iPanels can simultaneously connect to multiple PLC types.
CT HMI Java-based HMI and SCADA

*Intuitive high-quality screen design software*

CT HMI Builder provides a quick new approach to graphical interface design. Built using today's latest Java technology, CT HMI offers a consistent drag-and-drop environment that minimizes typing and drawing. CT HMI objects are both graphically and functionally dynamic. So when you drop them in the design window, they appear and function exactly as they will in the runtime environment. This greatly reduces design time, since there is no need to constantly switch between run and design mode to see what your panel will really look like. And because it is Java-based, CT HMI screens are easily routed over the Internet and Ethernet networks, providing remote viewers with the same high-quality visual display as the iPanel.

*Simple three-step design process*

1. Drag, drop and size object
2. Drag and drop tag into object
3. Adjust optional properties

*Tag Explorer*

Forget all that typing! With the CT HMI Tag Explorer, simply drop the appropriate tag onto the component. The Tag Explorer 'sees' all connected CTC controllers, iPanels, and CT Servers on the network. To connect to non-CTC devices add the optional OPC module.
Easy customization
CT HMI offers a wide variety of pre-built intelligent objects designed to meet the most common needs of HMI designers. For more specialized panels, there’s a universal graphic object that allows custom graphics and picture files to be easily imported into the project.

The CT HMI runtime display
The CT HMI Runtime Display uses advanced and flexible vehicles for displaying process information and enabling operators to use that information to manage the process.

Pop-up keypad and keyboard
When the user touches an ‘editable’ component, the CT HMI Keypad instantly pops up. Users can type an exact entry or use the fine and course jog buttons to change the value incrementally. The keypad also performs range checking and confirmation.

Multistate objects
View the status of pumps, valves, motors and other elements graphically with user-configurable colors that change based on the tag value of the object.

Video component
Plug a low-cost camera into one of the iPanel’s ports and then use CT HMI to drop a live video window into your panel.

Security
When users log in they are assigned a security level between 0-999. CT HMI components can be secured from viewing and/or functioning based on the logged on security level.

Dynamic resizing
Easily change an object’s shape and size with your mouse. Embedded text and graphics are automatically updated.

Advanced Features
• Recipe Manager
• Alarming with multi-media
• Trending
• Powerful Java scripting
### Specifications

<table>
<thead>
<tr>
<th>iPanel Model #</th>
<th>0801</th>
<th>3108</th>
<th>3110</th>
<th>3115/3215</th>
<th>3117/3217</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screen size (inches)</td>
<td>8</td>
<td>8.4</td>
<td>10.4</td>
<td>15.1</td>
<td>17</td>
</tr>
<tr>
<td>LCD type</td>
<td></td>
<td></td>
<td></td>
<td>TFT</td>
<td></td>
</tr>
<tr>
<td>Max # colors</td>
<td>262,000</td>
<td>16 million</td>
<td></td>
<td>4 billion</td>
<td></td>
</tr>
<tr>
<td>Resolution (px)</td>
<td>640 x 480</td>
<td>800 x 600</td>
<td>800 x 600</td>
<td>1024 x 768</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Brightness (cd/m²)</td>
<td>350</td>
<td></td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Touch screen</strong></td>
<td>Resistive</td>
<td>4-wire</td>
<td>5-wire</td>
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</tr>
<tr>
<td>Resolution</td>
<td>pixel-level resolution</td>
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<tr>
<td><strong>CPU</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pentium class</td>
<td>1 GHz</td>
<td>733 MHz</td>
<td>733 MHz</td>
<td>3115: 1 GHz</td>
<td>3117: 1 GHz</td>
</tr>
<tr>
<td>Memory</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAM</td>
<td>256 MB - 1 GB</td>
<td>512 MB</td>
<td>256 or 512 MB</td>
<td>256 MB - 60 GB</td>
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<tr>
<td><strong>Connections</strong></td>
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<tr>
<td>Ethernet (Mbps)</td>
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<td>100/100/1G</td>
<td>dual 10/100</td>
<td>10/100/1G</td>
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<td>USB (1.1)</td>
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<tr>
<td>USB (2.0)</td>
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<td></td>
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<tr>
<td>RS-232</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>RS-232/422</td>
<td>1</td>
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<td>RS-232/422</td>
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<tr>
<td>Parallel</td>
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</tr>
<tr>
<td>Mouse/Key</td>
<td>PS2</td>
<td></td>
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<tr>
<td>VGA out</td>
<td>1</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Sound</td>
<td>speaker, line in, microphone</td>
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</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
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</tr>
<tr>
<td>Operating temp</td>
<td>0 - 45°C</td>
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<td></td>
</tr>
<tr>
<td>Storage temp</td>
<td>-20 - 60°C</td>
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<tr>
<td>Sealing</td>
<td>NEMA 4, IP65</td>
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<td></td>
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<tr>
<td><strong>Power</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input</td>
<td>100 - 240 VAC, 50 - 60 Hz, 2.5 A</td>
<td>24 VDC</td>
<td>100 - 240 VAC, 50 - 60 Hz, 2 A</td>
<td>100 - 240 VAC, 50 - 60 Hz, 3 A</td>
<td></td>
</tr>
</tbody>
</table>

¹ G option not available on Models 3115 and 3117.
Dimensions and Part Numbers

iPanel Dimensions
Dimensions are in inches (mm).

<table>
<thead>
<tr>
<th>iPanel Model #</th>
<th>width A</th>
<th>height B</th>
<th>depth C</th>
<th>depth D (behind panel)</th>
<th>cutout width</th>
<th>cutout height</th>
</tr>
</thead>
<tbody>
<tr>
<td>0801</td>
<td>9.4 (240)</td>
<td>7.5 (190)</td>
<td>3.4 (85)</td>
<td>3.0 (77)</td>
<td>8.8 (222)</td>
<td>7.2 (184)</td>
</tr>
<tr>
<td>3108</td>
<td>9.6 (245)</td>
<td>7.3 (185)</td>
<td>3.2 (85)</td>
<td>3.0 (77)</td>
<td>8.6 (218)</td>
<td>6.4 (162)</td>
</tr>
<tr>
<td>3110</td>
<td>11.0 (280)</td>
<td>9.1 (233)</td>
<td>3.1 (80)</td>
<td>2.8 (71)</td>
<td>9.9 (251)</td>
<td>8.0 (203)</td>
</tr>
<tr>
<td>3115/3215</td>
<td>15.7 (400)</td>
<td>11.8 (300)</td>
<td>3.7 (94)</td>
<td>3.2 (81)</td>
<td>14.6 (371)</td>
<td>10.5 (267)</td>
</tr>
<tr>
<td>3117/3217</td>
<td>17.3 (440)</td>
<td>13.5 (344)</td>
<td>4.2 (107)</td>
<td>5.0 (126)</td>
<td>15.9 (404)</td>
<td>12.1 (308)</td>
</tr>
</tbody>
</table>

Part Numbers  iPanel part numbers have the following format:

- **Panel Model**
- **Color/Front**
- **RAM**
- **Storage**
- **OS/CD Drive**
- **HMI Software**
- **Input Power**
- **Custom Code**

**Element** | **Default** | **Options**
--- | --- | ---
Model # | N/A | 0801, 3108, 3110, 3115/3215, 3117/3217
Color/Finish | 0 [black] | 0 [256 MB], 2 [1 GB (0801 only)]
RAM | 1 [512 MB] | 0 [256 FD], 1 [512 FD], 2 [1 GB FD], 3 [1G FD], 4 [5G HDD], 5 [10G HDD], 6 [20G HDD], 7 [30G HDD], 8 [40G HDD], 9 [50G HDD], 10 [60 G HDD]
Storage | A [256FD], B [512FD], C [1G FD], D [5G HDD], E [10G HDD], F [20G HDD], G [30G HDD], H [40G HDD], I [50G HDD], J [60 G HDD]
Input Power | 0 [100-240VAC] | 1 [24 VDC (3108, 3110 only)], 2 [12 VDC (0801 only)]
OS/CD Drive | 5 [XP Pro] | 0 [XP Emb], 1 [XP Emb full + CDR], 2 [XP Emb full], 3 [XP Pro + CDR]
HMI Software | 3 [CT HMI WS] | 0 [CT HMI SA], 1 [CT HMI DX], 9 [no HMI runtime]
custom code | none (optional) | A2 [RS-422 (all models)]

**Part Number Notes**
- FD = Flash disk
- HDD = Industrial hard disk drive
- CT HMI SA (Standalone) - Standard iPanel Runtime Offering
- CT HMI DX (Data eXchange) - Adds data exchange capabilities to the iPanel

**Other CT HMI Products**
- CT HMI WS (WorkStation) - software ONLY runtime for use on PC and UNIX-based workstations.
- CT HMI WP (WebPack) - Extends the concurrent web/network access limit to five users.
Capture and Control
Real-time automation control and data acquisition
Web-Enabled Automation Controllers
Analog and Digital I/O Modules
Motion Control
Quickstep™ State-Logic Control Software

Visualize
Visualization and graphical control of your process
Touchpanels
Text Displays
CT HMI™ – Interactive graphics for panels and the web

Manage and inform
Web-based integration of devices and the enterprise
CTServer™ – Information server and SQL database
CT Log™ – High speed data historian
CT EASy™ – Powerful Event and Action System
CT OPC™ – Universal OPC device interface

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System requirements for CT HMI™ software are as follows: CPU: Pentium III - 1GHz; Memory: 256 MB minimum, 384 MB recommended; Hard Disk: 200 MB available (1 GB available with multimedia); OS: XP Professional, XP Embedded
Rev. 082707

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