**Integra32 CD Folder Contents**

- **Server**: Installs Server and Client 1 PC only (Setup.exe)
- **Communications Modules**: Drivers and utilities (LIF-200, etc.)
- **Documents**: All manuals in PDF format
- **Client**: Installs Client (Setup.exe)
- **Firmware**: Various firmware files
- **Update**: Service packs
  - Additional folders may appear on your CD
  - License, Web, DVR, Fingerprint, Etc.
- **Adobe Acrobat Reader** Included on CD

**OVERVIEW**

**Up to 9 simultaneous clients:**

- Client # 2
- Client # 3
- Client # 10

**LIF-200**

- **Installation**
- **RS-232**
  - **RS-232 - RS-485 Selector**
    - Set depending on interface used, also set same in the LIF's configuration web page
  - **RS-232 to IRC Panel ONLY!**
    - Alternative to RS-485 connection, uses built-in RS232/485 converter on IRC-2000
    - **12 VDC from IRC or URC Panel**
    - **RS-485 to IRC or URC Panels**
      - **POWER LED**: On - powered on
      - **100M LED**: On - 100M Ethernet is detected
      - **LINK LED**: On - network connected
      - **TRANS LED**: Blinks green - being polled by software, off when not; Provides blink status code immediately after power up.
      - Refer to LIF-200 manual for default password and reset procedures
      - Default IP address: 192.168.125.125  Default IP port: 3002

**SERVER**

- **PC Requirements**
  - **Processor**: Intel Core 2 Duo or better
  - **Memory**: 1-2 GB depending on OS
  - **Storage**: 20 GB, or more is needed
  - **CD-ROM, Ethernet Port, USB ports**
  - **Operating System**: Windows Editions: Pro, Business, Ultimate
    - 32 Bit: XP SP3, Vista, 7
    - Server 2003, 2008
    - 64 Bit: 7, Server 2008

**CLIENT**

- **PC requirements**
  - **Processor**: Intel Core 2 Duo or better
  - **Memory**: 1-2 GB depending on OS
  - **Storage**: 5 GB, or more is needed
  - **CD-ROM, Ethernet Port, 20 GB**
  - **Operating System**: Windows Editions: Pro, Business, Ultimate
    - 32 Bit: XP SP3, Vista, 7; 64 Bit: 7

**ETHERNET LAN**

- **PC to Network to LIF-200 to IRC-2000**
  - **Static IP Address Required**
  - **Up to 4,000’ Max from LIF-200 to last Panel**
  - **18-22 AWG 2-Cond. Shielded, Twisted**
  - **To more Panels**
  - **Verify COM port number assigned to this device in Windows Device Manager**

**INTERNET**

- **PC to Router to Internet to Router to LIF-200 to IRC-2000**
  - **Static Internet IP Address for Router**
  - **Static LAN IP Address Required for LIF-200**

**RBH does not provide tech support on port forwarding!**

**TIP**: Use Windows built-in Telnet client to test communications with LIF-200 (you may need to enable it first in Windows Vista, 7)

This test verifies possibility of a successful connection from Integra32 Server PC to LIF-200: it checks if IP address exists and whether LIF is using right port.

Example: at command prompt on Integra32 Server PC type in: `telnet <LIF-200 IP address> <IP port to use> (<c:\telnet 192.168.1.125 3002>) hit “Enter”.

If all is OK you will see blank screen with blinking cursor and “Trans” light on LIF will light up, if this does not happen contact IT staff for troubleshooting.
**ACCESS POINT : Configuration**

- **RTE**: Request to Exit, typically motion detector, crash bar, exit button - Shunts door contact and unlocks door for exit
- **DC**: Door Contact (a.k.a. door switch, DSM) - Monitors whether the door is open or closed
- **Reader**: Card, Fingerprint Reader with/ or keypad with Wiegand Interface - Reads user credentials, PINs, etc.
- **Lock**: Electric strike, lock set, magnetic lock or any electrically actuated device - secures an access point
- **Access Point**: Door, gate, turnstile, any point with secured access

**OUT PUTS:**

- **Relay Outputs (Marked ?N.O./?N.C./?F):** Maximum rating 5A @ 30V, Dry, Form “C” relay
- **Voltage Outputs (Marked ?OC):** 100mA @ -12VDC, for solid state devices only (LED, Piezo, etc.)

**INPUTS:**

- **S T A T E**: 
  - Normally Closed
  - Normally Open

**READERS:**

- **RBH**: Red GRN BUZ  D0  D1  0V  12V Red
- **HID**: GRN RED BUZ D1 SIG 0V 12V GRN

**NOTE : System Data**

Complete database is stored on the Server PC, cards and settings are transferred to the panel during the download. Panel retains this data and operates independently, sending events to Server and receiving commands from it. It is not possible to “upload” hardware configuration or card database from the panel. Please configure Integra32 Server’s built in backup function to preserve your data in case of PC failure!
**DIP SWITCH SETTINGS:** DIP-Switch: UP = ON / DOWN = OFF

<table>
<thead>
<tr>
<th>Switch</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel 1</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 2</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 3</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Switch</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel 9</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 10</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 11</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 12</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 13</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 14</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 15</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Panel 16</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
</tbody>
</table>

**Cycle power for DIP-switch changes to take effect!**

**Switch 8: Always OFF!**

**Output 1 Lock “A”**

**Output 2 Alarm shunt “A”**

**Output 3**

**Output 4**

**Output 5 Lock “B”**

**Output 6 Alarm shunt “B”**

**Output 7**

**Output 8**

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**Panel LEDs**

<table>
<thead>
<tr>
<th>Panel LEDs</th>
<th>LED1 (Red)</th>
<th>LED2 (Red)</th>
<th>LED3 (Red)</th>
<th>LED4 (Green)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUNCTION</td>
<td>Door forced</td>
<td>Host</td>
<td>Receive</td>
<td>Transmit</td>
</tr>
<tr>
<td>OFF</td>
<td>No</td>
<td>Power is off</td>
<td>Host not polling</td>
<td>Panel not responding</td>
</tr>
<tr>
<td>ON SOLID</td>
<td>Yes</td>
<td>Online</td>
<td>Malfunction</td>
<td>Malfunction</td>
</tr>
<tr>
<td>BLINKING</td>
<td>Card read</td>
<td>Offline</td>
<td>Receiving</td>
<td>Transmitting</td>
</tr>
</tbody>
</table>

**Power Supply (PS-1224) LEDs**

<table>
<thead>
<tr>
<th>LED</th>
<th>On</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green LED</td>
<td>Power On</td>
<td>Power Off</td>
</tr>
<tr>
<td>Red LED</td>
<td>Shorted</td>
<td>OK</td>
</tr>
<tr>
<td>Yellow LED</td>
<td>Battery Fail</td>
<td>Battery OK</td>
</tr>
</tbody>
</table>

**PS-1224 Power Supply**

- 16.5VAC 40Va
- +12VDC @ 2A
- 0VDC @ 2A

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**Link up to 16 panels via RS-485**

**RS-232 to PC or LIF-200**

50' Max

Shielded Cable Only

**DB9**

Pin 5 - GND Red
Pin 3 - TX Brown
Pin 2 - RX Black

**50-22 AWG Twisted, Shielded Pair. 4,000' Max**

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**FIRMWARE**

Use Integra32 software to check firmware version. Verify it matches your software, up/downgrade as needed via Firmware Upgrade Utility.

**Use Integra32 software to check firmware version.**

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**Press "BAT. TEST" button on PS-1224 for battery test. Yellow LED will go ON if test failed**

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**THIS DOCUMENT IS FOR QUICK REFERENCE ONLY, REFER TO HARDWARE & SOFTWARE MANUALS FOR FULL DETAILS**