Auto-Face VI Detention Control Panel

The Auto-Face VI Detention Control Panel is an economical and durable solution to managing critical operations in a detention facility. Designed with numerous through the panel device options, the Auto-Face VI Detention Control Panel can be completely customized to fit your application. Manage door controls, intercoms, lighting, cameras, and other key operations quickly and easily with an Auto-Face VI Detention Control Panel.

The Auto-Face VI Detention Control Panel consists of polyester graphic film covered by a protective vinyl laminate, which is bonded to a 1/8" irridited aluminum substrate. The vinyl laminate surface creates a non-glare, durable, scratch resistant and easy to maintain surface that will add years of use to the graphic surface.

The Auto-Face VI Detention Control Panel graphic image can be customized to fit a wide range of needs. The actual graphic image can be configured with either colored or black background. A colored background graphic is configured with black lines and legends. Black background graphics have colored lines and legends.
Design Data

The **Auto-Face VI Detention Control Panel** is designed to allow maximum flexibility in meeting your project requirements. Trimmed with black anodized aluminum, the **Auto-Face VI Detention Control Panel** can be rack mounted or hinge mounted to facilitate easy access to wiring. All panel devices are wired to multi-pin connectors. Other options for wiring, mounting, and panel devices are listed below.

### Wiring and Device Options
- Wiring to terminal blocks
- Wiring to customer selected connectors
- Custom matrix wiring
- Multiple commons
- LED test diodes
- Serial interface
  - RS232 serial interface
  - RS422 serial interface
  - RS485 serial interface
- ADI Z-Net interface
- Mounting and wiring of customer supplied equipment or driver cards
- Complete hardwired systems
- Programmed annunciator cards
- Latched relay annunciator cards
- Power supplies and AC/DC convertors
- Audible alarms
  - Single tone alarm
  - Six tone alarm with volume control
- Time of day clocks
  - 12-hour clock
  - 24-hour clock
- Synchronized clock displays
- Speaker and speaker grille
- Microphones
  - Dynamic microphone
  - Condenser microphone
- Microphone mounting options
  - Through-the-panel mounting
  - Behind the panel mounting
- XLR-3 microphone jacks (standard option)
- Volume controls
- Panel mounted telephone

### Panel Mounting Options
- Custom desk top turrets
- Custom control consoles
- Wall mount backboxes
- Rack mount
- Stainless steel frames
- Stainless steel enclosures
- Trim rings for millwork mounting
- Key locks
- Torx head security screws
- Southco knuckle hinges
- Stainless steel hinges

### Switch Options
Most panel-mounted switches for control applications are compatible with the AUTO-FACE VI Detention Control Panel. Some typical manufacturers used for detention control include:

- Honeywell, MICRO SWITCH, AML series
- OTTO Engineering, Inc., P series
- Square D/Telemecanique, ZBX series
- Allen Bradley, 800 E series
- IDEC Corporation, A6 series
- EAO Switch Corporation, series 19
Detention Control Panel
Construction

- .125" aluminum substrate with a clear irridited finish and holes for LEDs or switches
- 6-mil vinyl laminate protective layer
- 7-mil multi-colored polyester graphic film bonded to the substrate
- .062" epoxy glass printed circuit boards (PCBs)
- Current limiting resistor sized for customer voltage and, if required, lamp test diode (1N4004)
- T-13/4 LED (red, green, yellow, blue, or amber)
- Solder type turret (part number 200001) for LED connection
- LED wiring terminated on multi-pin connectors or modular screw clamp type terminal strips mounted in the rear of the enclosure
- Pressed in PCB standoffs and mounting screws

Switch wiring terminated on multi-pin connectors or modular screw-clamp type terminal strips mounted in the rear of the enclosure

Black anodized extruded aluminum T-1 trim edge frame
1.0 GENERAL
This specification defines the basic construction and components for an AUTO-FACE VI Detention Control panel.

2.0 CONSTRUCTION
The panel shall be constructed with a .125” aluminum substrate and a 7 mil. polyester film. The polyester film shall be protected by a non-glare, non-yellowing, durable, and scratch resistant 6- mil. vinyl laminate. Holes will be provided in the aluminum substrate and polyester overlay for switches, indicators and other devices as required. A black anodized aluminum frame shall surround the graphic panel and protect the edge of the graphic film. Wiring shall be grouped and tie wraps shall be placed at intervals of not less than 4 inches. Wire runs shall be provided as required to sure neat appearance and access to the panel devices.

3.0 CONTROL PANEL
3.1 GRAPHIC COLOR OPTION
3.1.1 COLORED BACKGROUND
The film overlay shall be as shown in the Engineer/Architect plans with black lines, black legends, and colored background areas. The overlay shall be made of 7-mil. photographic film, having all accent colors applied to the backside of the film. Areas of importance shall be highlighted for easy identification. The panel supplier shall furnish a color chart with a minimum of 22 accent colors for architect selection.

3.1.2 BLACK BACKGROUND
The film overlay shall be as shown in the Engineer/Architect plans with colored lines, colored legends and black background areas. The overlay shall be made of 7 mil. photographic film, having all accent colors applied to the backside of the film. Areas of importance shall be highlighted for easy identification. The panel supplier shall furnish a color chart with a minimum of 22 accent colors for architect selection.

3.2 PANEL SURFACE
The working surface (polyester film with laminate) shall be bonded to the aluminum substrate with an adhesive proven not to delaminate in similar applications. The adhesive shall achieve 100% bonding without any creases, bumps, or blemishes in the working surface of the panel. The working surface shall be a non-glare surface. Translucent areas shall be made in the overlay for backlighted indicators as required.

3.3 SUBSTRATE
The substrate shall be .125” aluminum with a clear iridited finish to prevent oxidation. The substrate shall have holes for indicators, digital readouts, switches etc., as required. The substrate may have PEM studs installed around the perimeter of the graphic for mounting the panel to an ADI or customer supplied enclosure.

4.0 INDICATOR LEDs
The indicators shall be high intensity size T-1 ¾ LEDs and rated for normal operation at a current of 20mA. The LEDs shall have an operating life of a minimum of 170,000 hours of continuous or pulsed operation. The body or lens of the LED shall be constructed of high impact plastic. Hewlett Packard HLMP series or equivalent shall be used. The LEDs shall be mounted on .062” printed circuit boards constructed of epoxy glass material (NEMA Type FR4, Grade 10). Resistors and diodes for current limiting and LED test shall be mounted on the printed circuit boards. Solder type pressed in turrets shall be provided for electrical connections. All field wiring shall be terminated on multi-pin connectors or modular screw terminals as required. LEDs mounted through the graphic display panel may be used as alternate indication devices if specified.

4.5 SWITCHES
Switches as required shall be mounted through the display panel. All devices shall be rated for the load handled. All field wiring shall be terminated on multi-pin connectors or modular screw terminals as required. The Engineer/Architect shall define the type of switch.

5.0 ENCLOSURES
Enclosures shall be an ADI desktop turret, wall mount back box, or trim ring. The ADI custom design enclosure shall be made of cold rolled steel and assembled using all welded and formed steel construction. The enclosure shall be primed and painted with baked enamel and a textured finish. The architect shall approve size and style of the enclosure.

6.0 OPTIONS
6.1 DEVICE OPTIONS
Device options shall include: a) microphone, b) volume controls, c) speaker, d) audible alarms, e) time of day clocks, f) panel mounted telephone.