

# EX104-BX2 | EX104-CX2

10.4" ELITE PI SERIES



## ELITE PI

10.4" Elite PI

The MICRO COMM Elite PI is the most flexible position indicator available. With the Elite PI Designer software, you can customize your own position indicator by selecting background colors and textures, fonts, and arrow styles. This system is so flexible you can even determine where the display elements appear on the screen. In addition to design flexibility, the MICRO COMM Elite PI can display floor, priority, and time-based messages.

### TYPICAL APPLICATIONS:

- > Car operating panel
- > Car transom

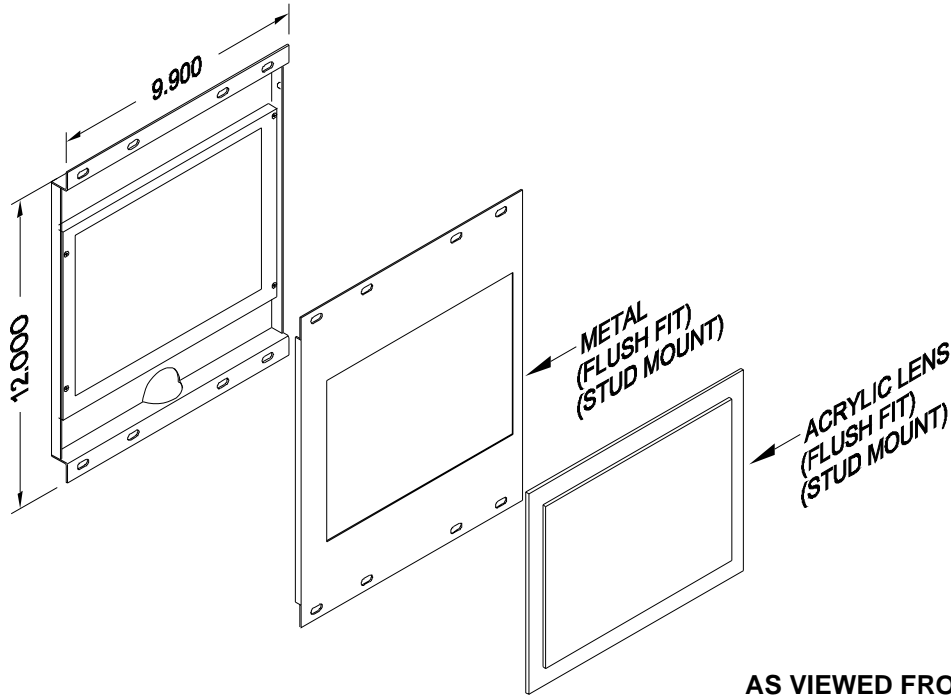
### FEATURES:

- > Standard Elite streaming video capabilities with an HDINT video encoder
- > Passing chime output
- > Live video (optional)
- > Self testing
- > Low profile
- > Elite PI Designer software
- > Elite PI Transfer software
- > Multi-car capabilities for hallway use
- > MICRO COMM serial link input



**C.E. Electronics, Inc. (US)** 2107 Industrial Drive, Bryan, Ohio 43506 p: 419.636.6705 [www.cееlectronics.com](http://www.cееlectronics.com)

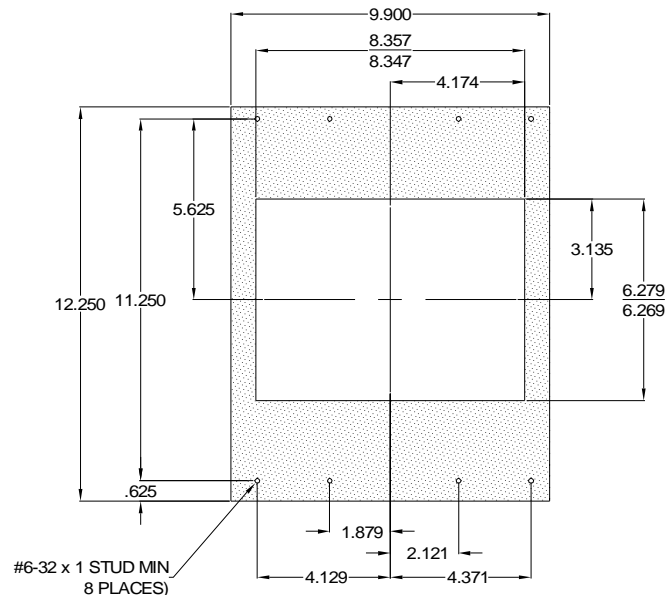
**C.E. Electronics, Ltd. (UK)** P.O. Box 1679 Marlow, Bucks SL7 3ZG, UK p: +44 (0) 1628 487633 [www.cееlectronics.co.uk](http://www.cееlectronics.co.uk)



Unit is 2.8 Inch Deep

3-1/2 Inch Box Depth Recommended

**AS VIEWED FROM FRONT**  
 NOTE: NOT SYMETRICAL UNIT



## 10.4 INCH Elite PI

The Micro Comm Elite PI is the most flexible position indicator available. With the Elite layout software, you can customize your own position indicator by selecting background colors and textures, fonts, and arrow styles. This system is so flexible you can even determine where the display elements appear on the screen. In addition to design flexibility, the Micro Comm Elite PI can display floor, priority, and time-based messages.

### Typical Applications

- Car-op panel
- Transom car or hub

### Features:

- Standard Elite has streaming video capabilities with an HDINT video encoder
- Passing chime output
- Live video option
- Self testing
- Low profile
- Elite designer software
- Elite transfer software
- Multi-car capabilities for hallway use
- MICRO COMM serial link input

**TO ORDER: - EX104 - B X2**

SERIES:

"L" = MAIN

"A" = AUXILIARY PANEL LINK

### RELATED DRAWINGS

| DESCRIPTION | DRAWING NAME |
|-------------|--------------|
| PANEL PREP. | PP104-4      |
| DETAIL DIM. | DD104-4      |

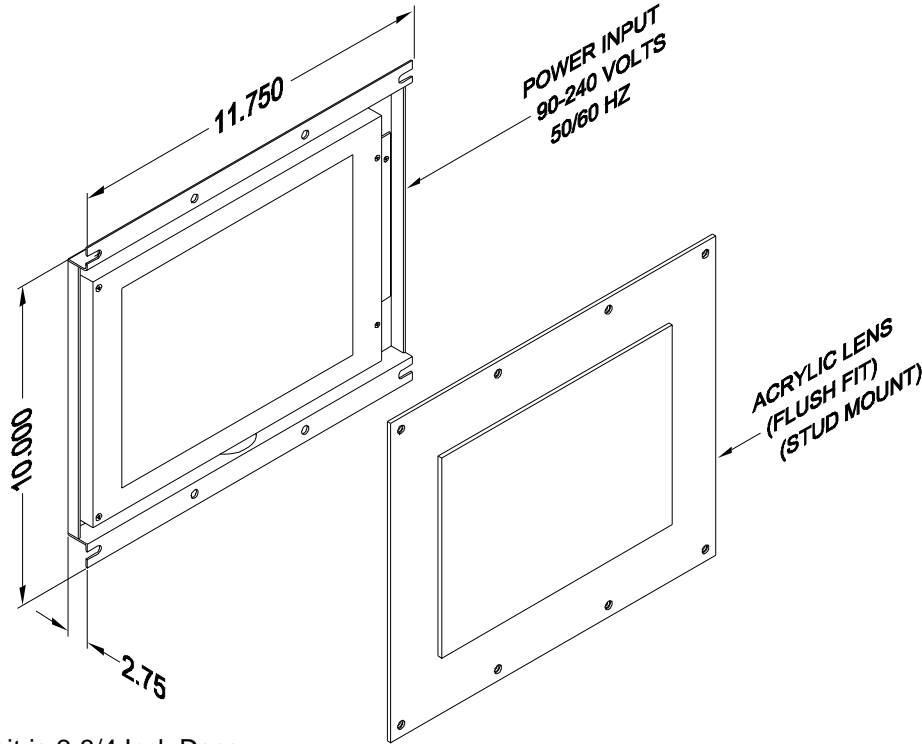


C.E. Electronics, Inc.  
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# EX104-CX2

Ver. 8 Rel. 11/21/2022

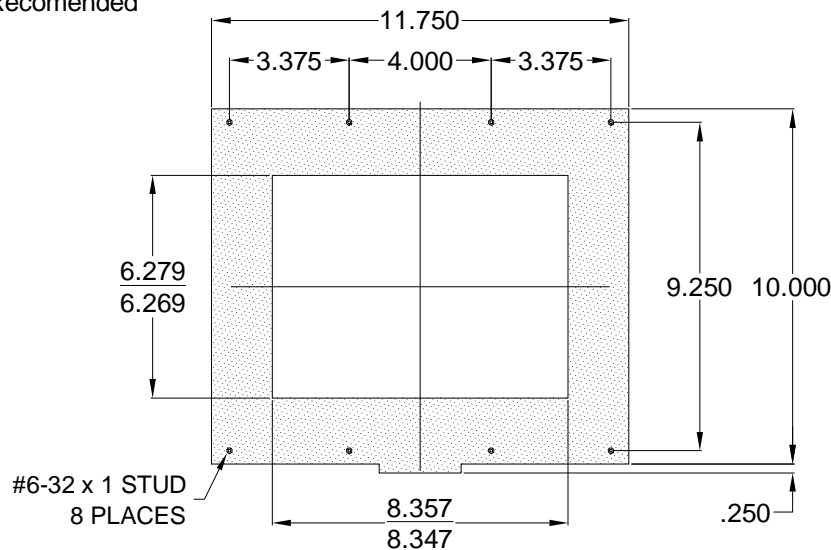
ELITE PI<sup>®</sup>



Unit is 2-3/4 Inch Deep

3-1/2 Inch Box Depth Recommended

AS VIEWED FROM FRONT



## 10.4 INCH Elite PI

The Micro Comm Elite PI is the most flexible position indicator available. With the Elite PI Designer software, you can customize your own position indicator by selecting background colors and textures, fonts, and arrow styles. This system is so flexible you can even determine where the display elements appear on the screen. In addition to design flexibility, the Micro Comm Elite PI can display floor, priority, and time-based messages.

### Typical Applications

- Car operating panel
- Car transom
- Lobby

### Features:

- Standard Elite has streaming video capabilities with an HDINT video encoder
- Passing chime output
- Live video (optional)
- Self testing
- Low profile
- Elite PI Designer software
- Elite PI Transfer software
- Multi-car capabilities for hallway use
- MICRO COMM serial link input

**TO ORDER: - EX104 - CX2**

SERIES:

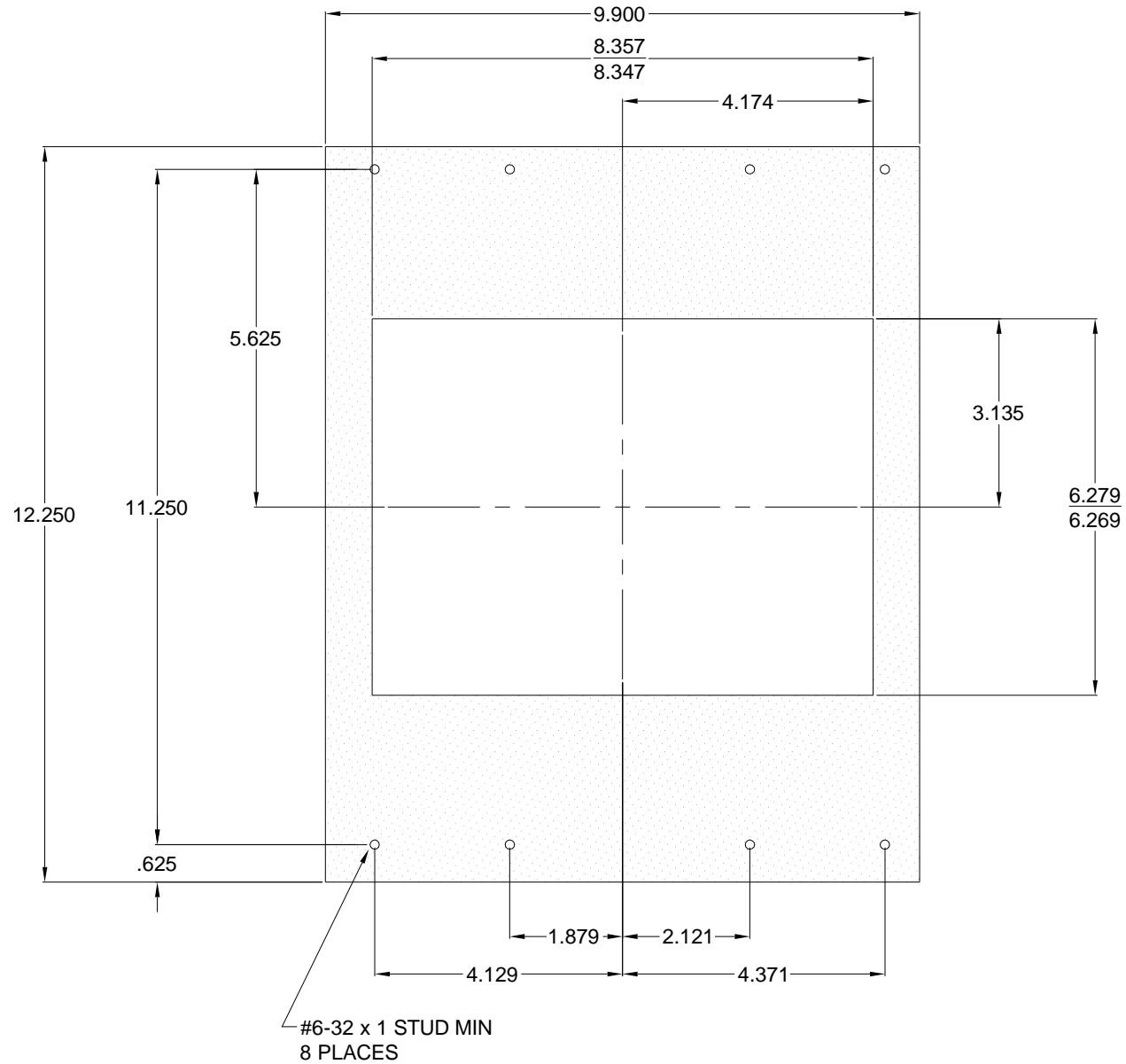
"L" = STANDARD

"A" = AUXILIARY PANEL LINK

| RELATED DRAWINGS |              |
|------------------|--------------|
| DESCRIPTION      | DRAWING NAME |
| PANEL PREP.      | PP104-1      |
| DETAIL DIM.      | DD104-1      |

# PP104-4

Ver. 2 Rel. 1/09/2017



AS VIEWED FROM FRONT

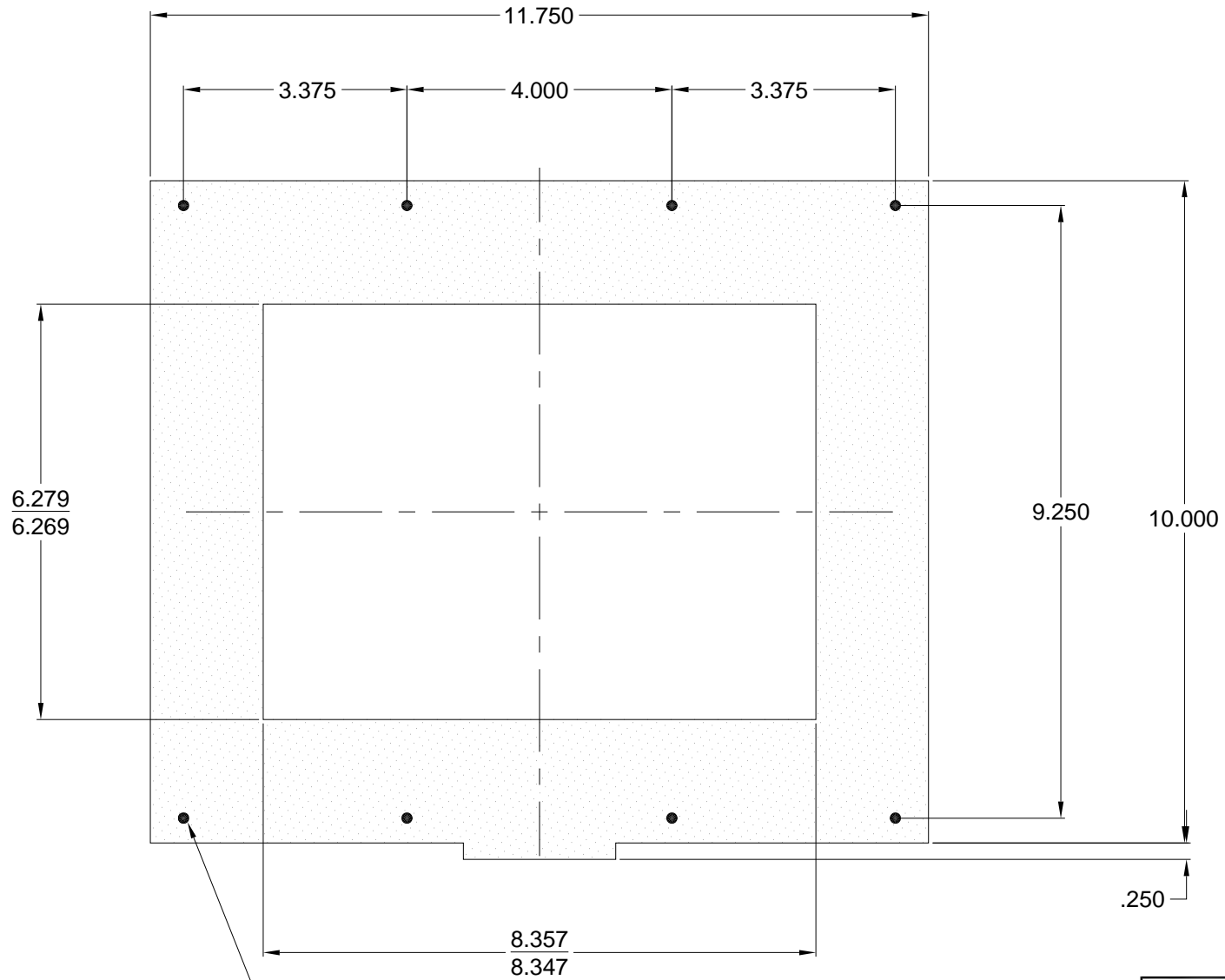
|                  |                |
|------------------|----------------|
| LENS NUMBER:     | BOARD # & REV: |
| APPROVED BY:     |                |
| Signature: _____ |                |
| Date: _____      |                |
| Company: _____   |                |

|                        |  |                |         |
|------------------------|--|----------------|---------|
| DATE DRAWN:<br>2/28/06 | LAST DATE REVISED:                             | SCALE:<br>NONE | PART #: |
| DRAWN BY:<br>D.W.S.    | TOLERANCE UNLESS OTHERWISE SPECIFIED:<br>±.015 |                |         |
| REQUESTED BY:<br>T.E.  | TOLERANCE FOR CUTOUT (WINDOW):                 |                |         |
| TITLE:                 | DWG. NO.<br>PP104-4                            | REV:           |         |

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# PP104-1

Ver. 2 Rel. 1/04/2017



#6-32 x 1 STUD  
8 PLACES

|                  |                |
|------------------|----------------|
| LENS NUMBER:     | BOARD # & REV: |
| APPROVED BY:     |                |
| Signature: _____ |                |
| Date: _____      |                |
| Company: _____   |                |

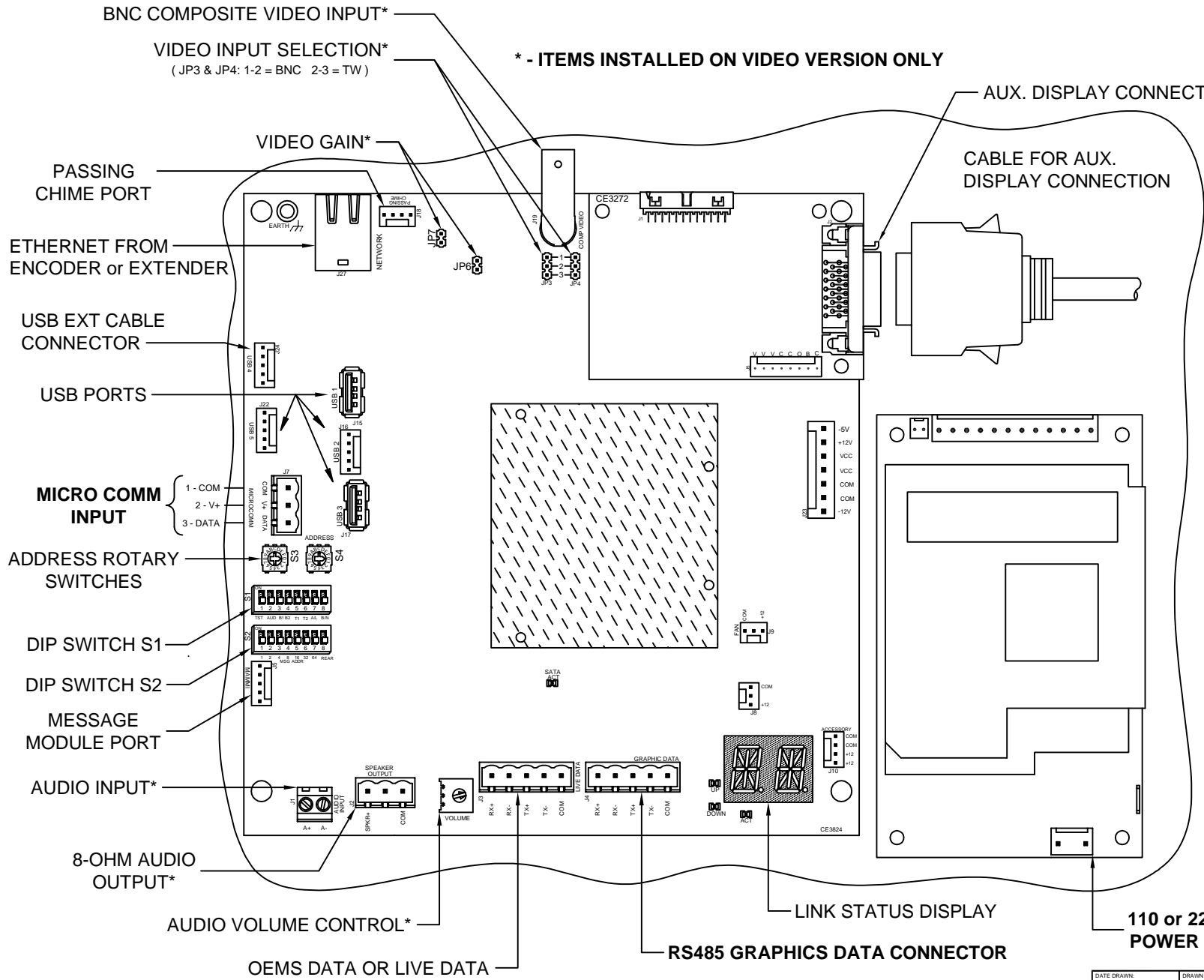
|                        |  |                |  |
|------------------------|--|----------------|--|
| DATE DRAWN:<br>1/04/06 | LAST DATE REVISED:                                     | SCALE:<br>NONE | PART #:  |
| DRAWN BY:<br>D.W.S.    | TOLERANCE UNLESS OTHERWISE SPECIFIED:<br>+0.015,-0.015 |                | C.E. ELECTRONICS, INC.<br>2107 Industrial Drive<br>Bryan, Ohio 43506<br>(419) 636-6705 |
| REQUESTED BY:<br>T.E.  | TOLERANCE FOR CUTOUT (WINDOW):<br>+0.020,-0.000        |                |  |
| TITLE:                 | DWG. NO.<br>PP104-1                                    | REV:           |  |

# MAIN TFT

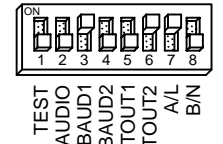
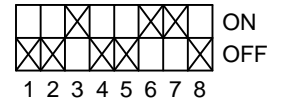
(BACK VIEW)

JOB# \_\_\_\_\_

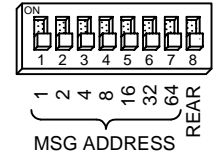
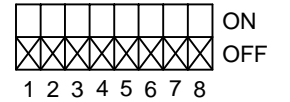
**\* - ITEMS INSTALLED ON VIDEO VERSION ONLY**



### S1 DEFAULT SETTINGS



### S2 DEFAULT SETTINGS



ROTARY SWITCH S3 \_\_\_\_\_  
 ROTARY SWITCH S4 \_\_\_\_\_  
 ARM CODE VERSION \_\_\_\_\_  
 DISPLAY CODE VER \_\_\_\_\_  
 OS VERSION \_\_\_\_\_  
 Q7 MODULE \_\_\_\_\_  
 BRACKET NO. \_\_\_\_\_  
 VIDEO STANDARD: NTSC   
                           PAL       
 IP: \_\_\_\_\_  
 MASK: \_\_\_\_\_

|                               |                        |                  |  |
|-------------------------------|------------------------|------------------|--|
| DATE DRAWN: 02/02/16          | DRAWN BY: DAC          | REQUESTED BY: TE | <br>C.E. ELECTRONICS, INC.<br>2107 Industrial Drive<br>Bryan, Ohio 43306<br>(419) 636-6705 |
| BOARD NUMBER: 3824, 3272      | LAST DATE REVISED: -   | APPROVED BY:     |  |
| PRODUCT: ELITE PI MAIN - LVDS | DATE: 10/4TFTBACK_3824 | REV: -           |  |

## S1 DIP SWITCH SETTINGS

### DIP Switch 1 - Test Mode

Off = Normal Run Mode

On = The display will cycle up and down through all programmed floors (Front Side Only).

### DIP Switch 2 - Audio Output

Off = Audio Software Controlled

On = Audio Enabled

### DIP Switch 4, 3 - RS485 Configuration Link Baud Rate (Must match Transfer Program)

| DS4 | DS3 | BAUD RATE       |
|-----|-----|-----------------|
| OFF | OFF | 9600            |
| OFF | ON  | 19200 (Default) |
| ON  | OFF | 38400           |
| ON  | ON  | 57600           |

### DIP Switch 6, 5 - Watchdog Period (Length of time the PIC waits for a response from Elite Display before resetting the display)

| DS6 | DS5 | Wait Period             |
|-----|-----|-------------------------|
| OFF | OFF | One Minute              |
| OFF | ON  | Two Minutes             |
| ON  | OFF | Three Minutes (Default) |
| ON  | ON  | Never Reset Display     |

### DIP Switch 7 - Converter Board Display Mode (does not affect TFT screen)

Off = Scan Slot Data Displayed

On = ASCII Data Displayed

NOTE: Left Cube Dot = Priority Message Sent  
Right Cube Dot = Door Strobe Active

### DIP Switch 8 - Single/Multi-Car

Off = Single Car - Standard MICRO COMM Links

On = Multi-Car - Special 8-to-1 MICRO COMM Links Only!

## ROTARY SWITCH SETTINGS

Rotary Switch S3 - Used for USB transfers. Default setting is 0.

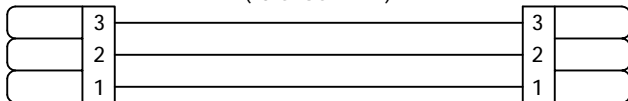
Rotary Switch S4 - Unit Address

This switch sets the address of the Elite PI unit. The default is address 1, which is switch setting 0.

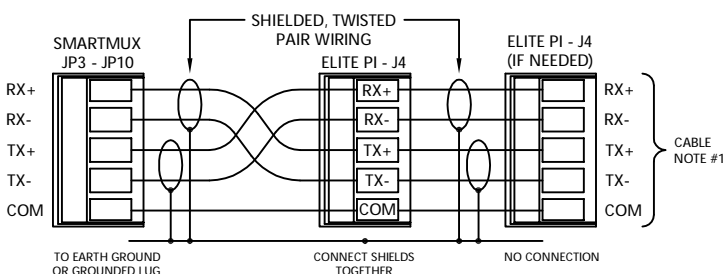
NOTE: This address must match the Transfer program setting.

| S4 | Unit Address | S4 | Unit Address | S4 | Unit Address | S4 | Unit Address |
|----|--------------|----|--------------|----|--------------|----|--------------|
| 0  | 1            | 4  | 5            | 8  | 9            | C  | 13           |
| 1  | 2            | 5  | 6            | 9  | 10           | D  | 14           |
| 2  | 3            | 6  | 7            | A  | 11           | E  | 15           |
| 3  | 4            | 7  | 8            | B  | 12           | F  | 16           |

### MICRO COMM LINK (18-GAUGE WIRE)



### SMARTMUX to ELITE PI and (if needed) to ELITE PI



NOTE: Shields **MUST** be grounded to controller/earth ground lug

## S2 DIP SWITCH SETTINGS

ARRIVAL ARROWS & DESTINATIONS DS1 - DS7 set the unit's floor number.

| DS7<br>(64) | DS6<br>(32) | DS5<br>(16) | DS4<br>(8) | DS3<br>(4) | DS2<br>(2) | DS1<br>(1) | FLOOR<br>NUMBER |
|-------------|-------------|-------------|------------|------------|------------|------------|-----------------|
| OFF         | OFF         | OFF         | OFF        | OFF        | OFF        | OFF        | CAR UNIT        |
| OFF         | OFF         | OFF         | OFF        | OFF        | OFF        | ON         | FLOOR 1         |
| OFF         | OFF         | OFF         | OFF        | OFF        | ON         | OFF        | FLOOR 2         |
| OFF         | OFF         | OFF         | OFF        | OFF        | ON         | ON         | FLOOR 3         |
| :           | :           | :           | :          | :          | :          | :          | :               |
| :           | :           | :           | :          | :          | :          | :          | :               |
| ON          | ON          | ON          | ON         | ON         | OFF        | ON         | FLOOR 125       |
| ON          | ON          | ON          | ON         | ON         | ON         | OFF        | FLOOR 126       |
| ON          | ON          | ON          | ON         | ON         | ON         | ON         | NOT USED        |

Switch 8 sets the unit as front or rear. DS8 OFF - Front Unit DS8 ON - Rear Unit

### VIDEO TEST MODE

Video test mode uses a combination of DIP switch and rotary switch settings. Please write down the initial setting of the S3 and S4 rotary switches before starting this process.

#### Entering Video Test Mode

Set DIP switch 1 to OFF, then set S3 and S4 to position F. Next, set DIP switch 1 to ON. The Live Video Adjustment menu will appear on the screen with Brightness highlighted.

#### Choosing Item to Adjust

The highlighted item is the current selection. To choose a different item to adjust, set S3 as shown below:

| S3 | Adjustment | S3 | Adjustment       |
|----|------------|----|------------------|
| F  | Brightness | B  | Video Standard   |
| E  | Contrast   | A  | Vertical Stretch |
| D  | Color      | 9  | Default          |
| C  | Tint       | 8  | Original         |

### Making Adjustments

Highlight the item to change and turn S4 for the best display quality.

#### Default and Original Settings

Default resets the display to the factory default settings. Original cancels any changes made and restores the values stored before entering Video Test mode. Highlight the item to use, turn S4 in either direction, and wait five seconds. The display will reset to the default or previous settings.

#### Exiting Video Test Mode

To save the new video settings and exit Video Test, set DIP switch 1 to OFF. Reset S3 and S4 to the values recorded before starting the process.

### Video Gain

JP7 and JP6 control the video gain. Use a shunt to short the pins of the jumpers as shown in the table below (OFF = No Shunt, ON = Shunt):


| JP7 | JP6 | VIDEO GAIN        |
|-----|-----|-------------------|
| OFF | OFF | No Gain (Default) |
| OFF | ON  | Lowest Gain       |
| ON  | OFF |                   |
| ON  | ON  | Highest Gain      |

### Adjusting Audio Volume

If you need audio, connect an 8-ohm speaker to J2 on the Elite PI board. Set the volume by adjusting Volume pot R2 (3/4 turn pot). Adjust the pot clockwise to increase the volume.

### CABLE NOTES:

- 1) Use shielded, twisted pair wires. We recommend using 24-gauge or larger wires. NOTE: Connect shields to controller/earth ground.
- 2) Use one wire of a twisted pair or a separate wire for common.
- 3) The audio input cable should be a shielded, twisted pair cable.
- 4) BNC composite video cable - 75 ohm RG6 recommended.
- 5) Twisted pair video cable - Unshielded twisted-pair wire recommended. Baluns required - C.E.# V23501P02

|   |                                |                     |  |
|---|--------------------------------|---------------------|--|
| DATE DRAWN:<br>02/10/16                 | DRAWN BY:<br>DAC               | REQUESTED BY:<br>TE |  C.E. ELECTRONICS, INC.<br>2107 Industrial Drive<br>Bryan, OH 43306<br>(419) 636-6705 |
| BOARD NUMBER:<br>3824                   | LAST DATE REVISED:<br>10/06/17 | APPROVED BY:        |  |
| PRODUCT<br>CE3824 TFT Setup Information |                                |                     | DWG. NO.<br>CE3824_SETUP   |
|   |                                |                     | REV.<br>B  |