

ELECTRONIC REVISION

CONTROLLED

NOTES: (unless otherwise specified)

1. ASSEMBLY WEIGHT: 7.3 LBS. ±5%
2. SOME MINOR PARTS, LABELS, HARNESSES AND INSTRUCTION OMITTED FOR CLARITY
3. MONITOR MUST BE MOUNTED USING 2 MOUNTING HOLES ON EACH SIDE OR ALL MOUNTING HOLES ON TOP OR BOTTOM AS A MINIMUM. MONITOR CAN ALSO BE MOUNTED USING 4 REAR MOUNTING HOLES MINIMUM
4. REMOVE #10-32 FLAT HEAD SCREWS AS NEEDED TO ACCESS MOUNTING HOLES. DO NOT EXCEED 0.375 INSERTION DEPTH
5. DO NOT BLOCK VENT HOLES. ENSURE A MINIMUM OF 0.5 CLEARANCE TO VENT HOLES. ENSURE A MINIMUM OF 1630 CUBIC INCHES OF AIR VOLUME EXISTS AROUND MONITOR IF INSTALLED INSIDE A BULKHEAD OR ACCESS TO FREE AIR. NO EXTERNAL FORCED AIR COOLING IS REQUIRED
6. DO NOT PLUG OR UNPLUG WHILE POWER IS APPLIED
7. CARE MUST BE TAKEN TO KEEP DEBRIS FROM ENTERING ANY MONITOR OPENINGS DURING INSTALLATION AND OPERATION
8. CONNECTOR KITS NOT INCLUDED

2

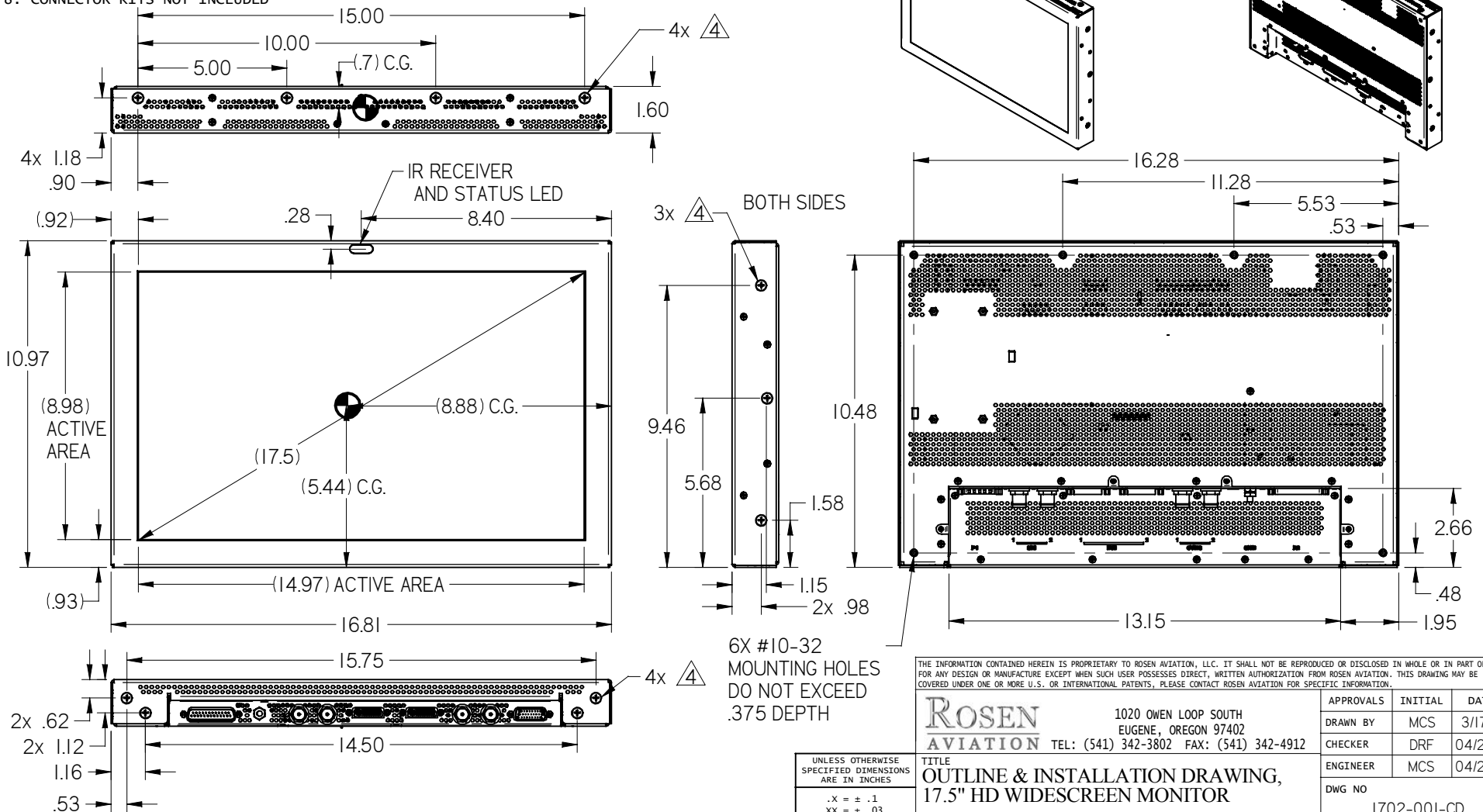
		REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY	CHG NO	APRV
	A	INITIAL PRODUCTION RELEASE	04/21/11	DE	EC11199	
PG2	B	ADD "RC ENABLE" TO PIN 23 OF HD-26	08/10/11	DE	EC11506	MCS
A1	C	ADD IR LOCATION DIMENSIONS	02/14/12	DE	12-0072	MCS
B2	D	UPD & CLARIFY MAIN CONNECTOR INTERFACE	05/02/12	DE	12-0254	MCS

A

B

A

B



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		1020 OWEN LOOP SOUTH EUGENE, OREGON 97402 TEL: (541) 342-3802 FAX: (541) 342-4912		APPROVALS	INITIAL	DATE
		DRAWN BY	MCS	3/17/11		
		CHECKER	DRF	04/20/11		
		ENGINEER	MCS	04/20/11		
		DWG NO 1702-001-CD				
		SIZE	REV			
		A	D			
		SCALE	N.T.S.	SHEET	1 OF 2	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

.X = ± .1
.XX = ± .03

\sum = ± 5.0"

RADII = ± .020

INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

1

2

PERFORMANCE SPECIFICATIONS (REF)

LCD Performance

Screen Resolution (pixels)	1280 x 768 (WXGA NATIVE RES.)
Video Formats Supported	480i/576i-1080p
VESA Formats	VGA through WUXGA
Display Viewing Area (mm)	380.2 (H) x 228.1 (V)
Horizontal Viewing Angle	±80°
* Vertical Viewing Angle	+80/-60°
Contrast Ratio	700 : 1
Screen Brightness	600 cd/m ² MAX

Power Requirements

Nominal Voltage / Current	28VDC / .9A
Inrush Current Peak	6A
Inrush Current Duration	4msec
Op Voltage Range	18-32VDC
Maximum Current Draw	1.4A at 18VDC
Power Consumption	25.2 W Max

Environmental Specifications

Operating Temperature	0°C - 55°C
Altitude	15,000ft
Humidity	95%RH
Vibration	1.48 grms
Power Input	DO-160F Cat A/Z
Radio Frequency	DO-160F Cat T
Emission of RF Energy	DO-160F Cat B

* LCD Manufacturer's Specifications.

Main Interface Connector

Connector Type: HD-26 Male	
Mate: HD-26 Female	
Tyco 1658682-1	
Contact: 1658686-3	
Connector Kit: 0300-043	
Pin #	Function
1	IR+5V_OUT
2	SELECT_SW_IN
3	Reserved
4	PWR_Control_In
5	Reserved
6	IR_GND
7	Discrete Relay Output/Error State*
8	GND
9	GND
10	RS-232 CONTROL GND
11	RS-232-TX CONTROL
12	RS-232-RX CONTROL
13	RS-485-P
14	RS-485-N
15	RS-485-P
16	RS-485-N
17	GND
18	EXT_IR-IN
19	Reserved
20	NC
21	Reserved
22	Discrete Relay Input/Error State*
23	RC ENABLE
24	RS-232-TX DEBUG
25	RS-232-RX DEBUG
26	RS-232 DEBUG GND

CVBS Connectors

Connector Type: BNC	
Input Impedance is 75-Ohms	
Connector Kit: 0300-051	
Pin #	Function
Center Pin	CVBS - (Composite)
Outer Ring	CVBS Return

SDI Connectors

Connector Type: BNC	
Input Impedance is 75-Ohms	
Connector Kit: 0300-051	
Pin #	Function
Center Pin	SDI - (HD/SD)
Outer Ring	SDI Return

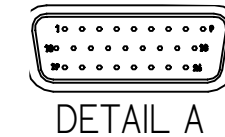
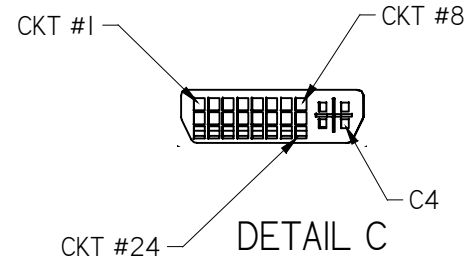
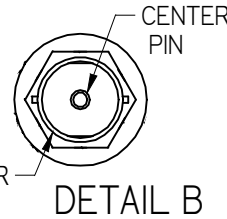
Component/Digital Connector

Connector Type: DVH Receptacle			
Analog RGB/H/V and Analog Component Video			
Digital DVI/HDMI Audio & Video			
Connector Kit: 0300-029			
Pin #	Function	Pin #	Function
1	TMDS Data2-	16	Hot Plug Detect
2	TMDS Data2+	17	TMDS Data0-
3	TMDS Data2 Shield	18	TMDSData0+
4	Reserved	19	TMDS Data0 Shield
5	Reserved	20	Reserved
6	DDC Clock [SCL]	21	Reserved
7	DDC Data [SDA]	22	TMDS Clock Shield
8	Analog Vertical Sync	23	TMDS Clock +
9	TMDS Data1-	24	TMDS Clock -
10	TMDS Data1+	C1	Analog Red (or Component Pr)
11	TMDS Data1 Shield	C2	Analog Green (or Component Y)
12	Reserved	C3	Analog Blue (or Component Pb)
13	Reserved	C4	Analog Horizontal Sync
14	+5 V Power	C5	Analog GND Return: (RGB or YPbPr)
15	Ground (for +5 V)		

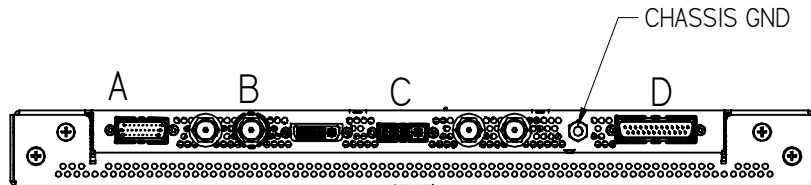
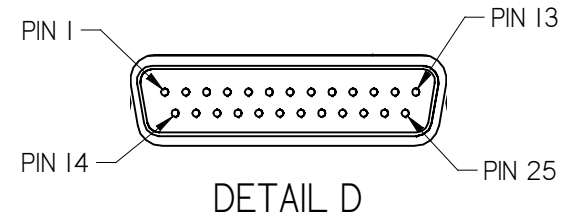
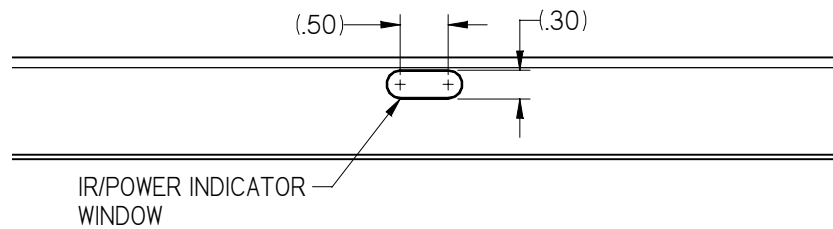
DB25 CONNECTOR PINOUT

Connector: 25 Pin Male D-Subminiature TYCO 5747842-3
Mate: 25 Pin Female D-Subminiature TYCO 207463-1 Contact: 166051-1 Connector Kit: 0300-052

Pin #	Monitor signal
1	+28 VDC
2	28 VDC RETURN
3	Reserved
4	Reserved
5	Reserved
6	Reserved
7	Reserved
8	Reserved
9	Reserved
10	Reserved
11	Reserved
12	Reserved
13	Reserved
14	Reserved
15	Reserved
16	Reserved
17	Reserved
18	Reserved
19	Reserved
20	Reserved
21	Reserved
22	Reserved
23	Reserved
24	Reserved
25	Reserved



*WHEN IN ERROR STATE THE TWO PINS CLOSE (EXAMPLE: OVER TEMP)



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	SCALE NONE	SHEET 2 OF 2	