

**Features**

- ⊕ Small and Light Weight
- ⊕ 1/4" Inter-line type Color CCD Sensor
- ⊕ Backlight Compensation
- ⊕ NTSC standard, PAL version available
- ⊕ CCD Iris
- ⊕ Reverse Scan (Mirror) selectable
- ⊕ Environmentally Sealed Housing
- ⊕ Sapphire Window with EMI Protection

**General Description**

The RBC-D2E/X.X camera is a very rugged and compact color CCD video camera (X.X = lens focal length, see below). The camera is well protected inside an environmentally sealed aluminum housing, finished in Lusterless Desert Tan and with a scratch resistant sapphire window. The housing provides complete EMI protection, and can "breathe" through a humidity filter, minimizing maintenance requirements during long term storage.


**Environmental Specifications**

<b>Storage Temperature</b>	46° to +71°
<b>Operating Temperature</b>	-40° to +60°
<b>Altitude (Norm.Operational)*</b>	Sea Level to 50,000 ft.+
<b>Altitude (Non-Operational)*</b>	-15,000 ft. to 60,000 ft.+
<b>Explosive Atmosphere</b>	Sea Level to 50,000 ft. +
<b>Storage Humidity</b>	95% (50°C) to 85% (38°C)
<b>Operating Humidity</b>	5% to 100% relative humidity (condensing)
<b>Vibration (Operational)</b>	MIL-STD 810C, 514.2 (VIII), 70 hrs
<b>Shock (Operational)</b>	MIL-STD 810C, 516.2 (I), 30g, 3 dir
<b>EMI</b>	MIL-STD-461, Radiated RS02, RS03, 50V/m RE02

\*Estimates based on similar products, which have been tested

**Specifications**

<b>Image Sensor</b>	Inter-line Type 1/4" CCD Image Sensor
<b>Effec. Picture Element</b>	752 H x 582 V (PAL) 768 H x 494 V (NTSC)
<b>Signal System</b>	NTSC (PAL version available)
<b>Video Output</b>	1.0Vpp, 75 ohms
<b>Scanning System</b>	2 : 1 Interlace
<b>Synchronization System</b>	Internal
<b>Horizontal Resolution</b>	450 TV Lines
<b>Min. Illumination</b>	1.2 Lux (50 IRE, AGC ON, F1.4)
<b>S/N Ratio</b>	Better than 45dB
<b>Gamma Characteristics</b>	$\gamma = 0.45$
<b>AGC</b>	On/Off (+26 dB max)
<b>Electronic Iris - Off/On</b>	1/60 (1/50) to 1/120,000 sec.
<b>Power Supply Voltage</b>	10.8-13.2VDC
<b>Power Consumption</b>	110ma (@12VDC)
<b>Connector</b>	MIL-38999, Ser III
<b>Weight</b>	398 g (14 oz)
<b>Dimensions</b>	73.91 mm (H) 60.96 mm (W) 69.09 mm (D)
<b>Optional Lenses (X.X)</b>	FL1.9mm Hfov=100.9° (all lenses fixed iris, f=2.8) FL3.0mm Hfov=59.8° FL4.0mm Hfov=45.5° FL6.0mm Hfov=30.4° FL8.0mm Hfov=22.1° FL12.0mm Hfov=15.7°

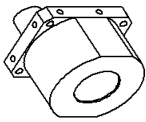
**Versions**

RBC-D2E/X.X	NTSC, X.X =Lens FL
RBC-D2PE/X.X	PAL, X.X=Lens FL

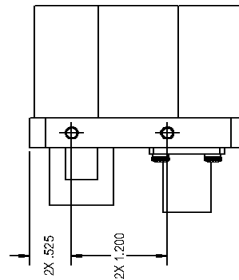
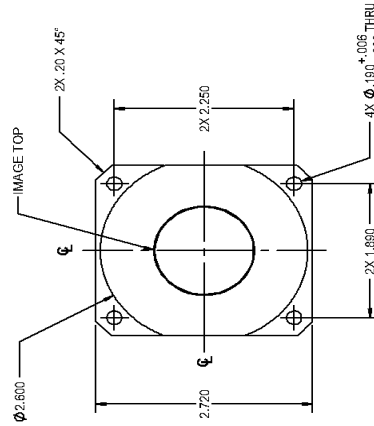
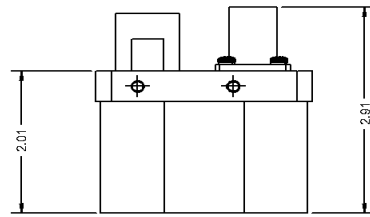
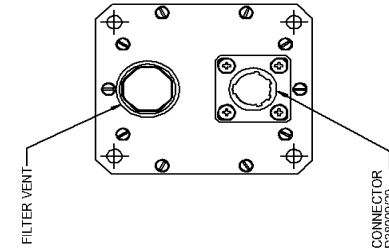
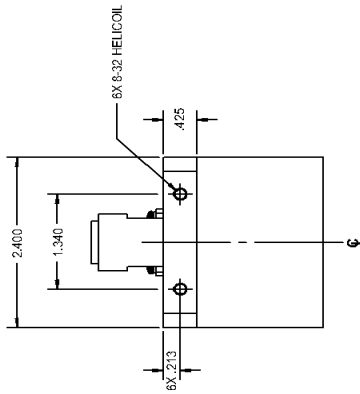
Specifications are subject to change without notice.

21 September, 2011

REV	BY	DESCRIPTION	DATE	APPROVED
A	JC	RELEASED FOR TECHNICAL INFORMATION	11/05/07	FH
B	JC	INCREASED WIDTH TO 2.400		
	JC	ADDED FC ITEM CALLOUT FOR PINS 3 & PARTNER	11/19/07	FH



ISOMETRIC VIEW  
SCALE 1:2



CONNECTOR PINOUT

PIN NO.	SIGNAL TYPE
1	GND (12VDC RETURN)
2	12VDC
3	VIDEO GND (SHIELD)
4	VIDEO
5	REVERSE ON (MIRRORED)
6	N/C

ITEM	QTY	DASH NO.	DESCRIPTION	LIST OF MATERIALS	MATL.	FINISH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DO NOT MANUALLY UPDATE CAD DRAWING.						
TOLERANCES ARE:						
X = ±.030						
XX = ±.015						
XXX = ±.006						
ANGLES = ±1°						
DO NOT SCALE DRAWING						
FINISH						
HEAT TREAT						
REVISION						
DATE						
BY						
CHECKED						
APPROVED						
DRAWN BY: J. CARILLO 11/05/07			SEKAI ELECTRONICS			
TOP ASSEMBLY, RBC-D2E AND RBC-MD2E			DWG. NO. 98RBCD2E-01			
SCALE	1:1					
SHEET	1 OF 1					

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