

CVM 3000 series – Color Control Monitor

Description

The CVM 3000 range of monitors is designed to meet the real needs of controlling a complete monitor wall. The flexibility of the configuration and the compatibility between the different monitor models, allows the CVM 3000 user to operate with optimum efficiency.

A complete family

The CVM 3000 range consists of a 20" model CVM 3051 IM and a 14" CVM 3237 ISH, both of which are rack-mountable. In addition, the model CVM 3337 ISH is built as a cubic full-screen unit for applications where space is critical. The open architecture and fully modular concept of the range, permits complete interchangeability of boards between all CVM models.



Features

- Full array of analog inputs
- Optional digital inputs (8 bit and 10 bit)
- AKB color stability circuitry
- Automatic color alignment
- Videotext / teletext display
- Identical light output for all scan formats
- Closed captioning support
- Optional VITC & source ID reader
- Programmable source / system on-screen display
- Detection & display of illegal colors, using 10 bit digital input board
- Input related pre-set conditions
- Safe area display

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Specifications

General Specifications	Units	CVM 3000
Ambient temperature range		
within specs	°C / °F	10 to 40 / 50 to 104
operation	°C / °F	0 to 40 / 32 to 104
storage	°C / °F	20 to 70 / -4 to 158
Power consumption:	W	typ. 95
Line voltage	VAC	100 to 240
Weight		
CVM 3237 ISH:	kg / lbs	19 / 42
CVM 3051 IM:	kg / lbs	32 / 71
Dimensions (W x H x D):		
CVM 3237 ISH	mm inch	448 x 287 x 454 17.63" x 11.29" x 17.87
CVM 3051 IM	mm inch	448 x 421/443 (w.o./w. foot) x 549 " 17.63" x 16.67/17.4" (w.o./w. foot) x 1.57"

Standard input specifications		
Composite inputs		
Number of inputs	3	
Level	Vpp / dB	1 + 3 / -6
Looped through		yes
Type		Floating (switchable to non floating)
Termination (75 ohm)		With switch
External sync.	Vpp / dB	Yes (0.3 ±6)
Connector		BNC
RGB / Component input		
R,G,B format	Vpp / dB	1.0 +3 / -6 (composite)
R-Y, B-Y, Y format:	Vpp / dB	0.3 +3 / -6 (R-Y, B-Y) 1.0 +3 / -6 (Y)
Loop through		Yes
Type		Floating (switchable to non-floating)
Connector		BNC
Y/C (S-VHS)-video input		
Y	Vpp / dB	0.7 +3 / -6
C	Vpp / dB	0.3 +3 / -6
Connector		4 pins

Decoder Specifications		
Color standards		PAL, SECAM, NTSC 3.58 / 4.43
Standard selection		Automatic
ACC		Selectable (on/off)
Frequency response	dB / MHz	1.0 dB till 6 MHz (Y-output without notch filter)
Hue range	°	±15

Display Performance		
Raster and picture		
Linearity error		±1 % of picture height
Geometry error		±2 % of picture height

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Specifications - continued

CRT specifications	Units	CVM 3000
CVM 3037 ISH		
pitch	mm	0.28
TV-lines -20 dB		750
resolution -20dB	MHz	7.7
CVM 3051 IM		
pitch	mm	0.43
TV-lines -20 dB		700
resolution -20dB	MHz	7.2

Optional board specifications		
Adaptive comb decoder		
Color standard		PAL (BG) / NTSC
Enhanced comb mode		Selectable (on/off)
Digital input		
Standard	Mbit/s	270 (CCIR-601)
Number of inputs		1 or 2 (D1SH / D2SH)
Resolution	bit	10
Illegal color detection		Yes
Loop-through		Yes (active)
Connector		BNC (75 Ω)
Audio board		
Audio inputs		
Type		L + R (stereo) related to selected video inputs
Level:	Vrms	0.5 (asymmetric)
Impedance		High
Connectors		Cinch
Audio outputs		
Type		L + R corresponding with the selected input
Level		Adjustable by the volume control
Power amplifier	W	2 x 10
Loudspeaker terminals		L + R

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Specifications - continued

Controls		
Remote 1 / Remote 2:		
Purpose		Operation with MRC
Connector		9 pins - male / female Sub D
RIS / Tally		
RIS		Simple input and/or output switching
Tally		Red and green
Connector		9 pins – female Sub D
Optional		RS 232 and RS 485 remote board

Order information required	Part Number
Monitor type	CVM 3237 ISH CVM 3051 IM EBU
Options, if required	
For slot 1	D1SH, D2SH or AUD
Other	VITC, PAL-M, PAL-N, Comb



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Part Number 8986446 Rev A
 February 2003