

## CVM 3051 ISH – Color Master Control Monitor

### Description

The CVM 3051 ISH has been designed as a reference monitor for master control applications.

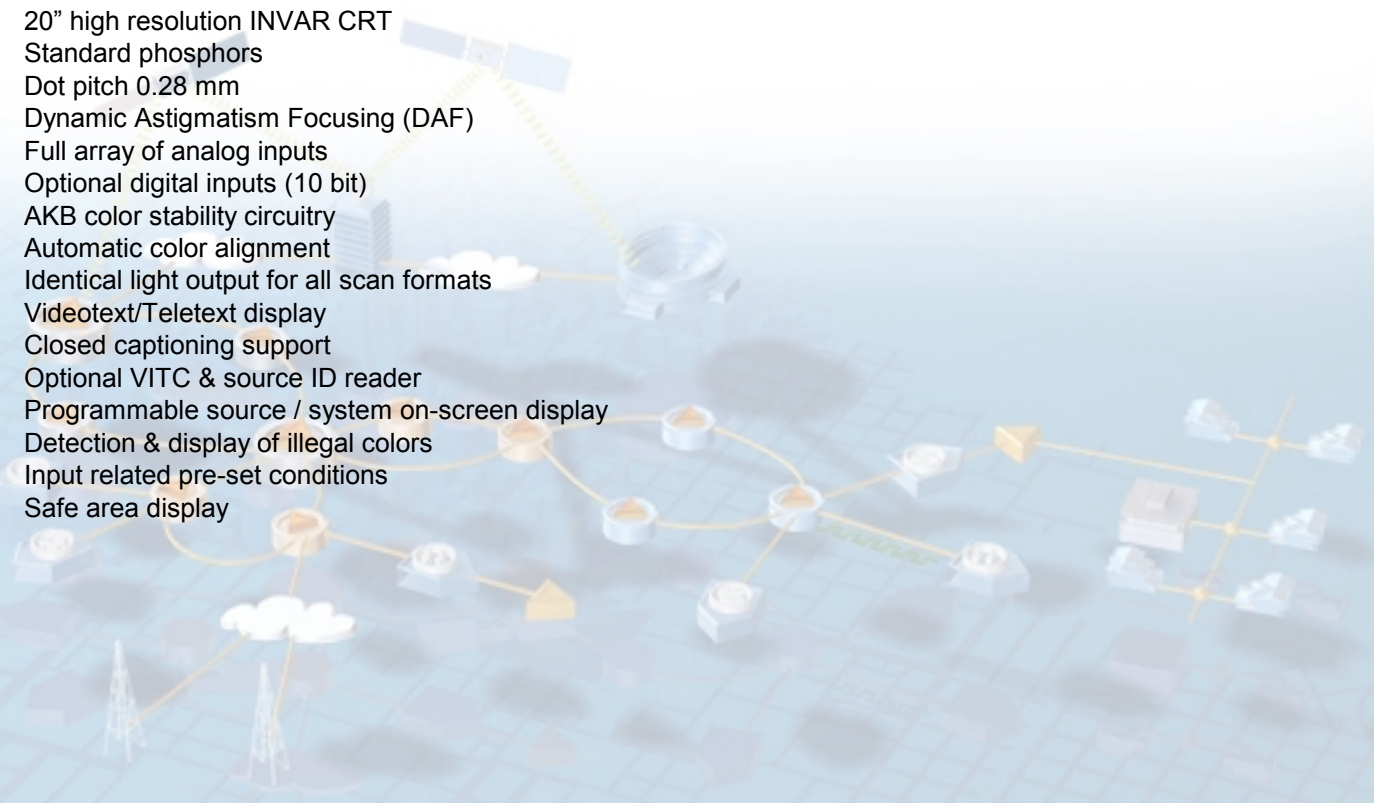
With its 20" super high resolution INVAR CRT, standard phosphors, a dot pitch of 0.28 mm and Dynamic Astigmatism Focusing (DAF), the CVM 3051 ISH guarantees excellent spot performance and gives picture detail from corner to corner, even at high light output levels. The user is thereby provided with the greatest possible clarity for pictorial analysis of the video signal.

As the top of the range monitor within the CVM 3000 series, the CVM 3051 ISH has been designed especially for use as a master control and for high resolution graphic imaging.



### Features

- 20" high resolution INVAR CRT
- Standard phosphors
- Dot pitch 0.28 mm
- Dynamic Astigmatism Focusing (DAF)
- Full array of analog inputs
- Optional digital inputs (10 bit)
- AKB color stability circuitry
- Automatic color alignment
- Identical light output for all scan formats
- Videotext/Teletext display
- Closed captioning support
- Optional VITC & source ID reader
- Programmable source / system on-screen display
- Detection & display of illegal colors
- Input related pre-set conditions
- Safe area display



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## Specifications

General Specifications	Units	CVM 3051 ISH
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	V AC	100 to 240
Weight	kg / lbs	32 / 71
Dimensions (W x H x D):	mm inch	448 x 421 / 443 (without / with foot) x 549 17.63" x 16,67" / 17.4 (without / with foot) x 21.57 "

Standard input specifications		
<b>Composite inputs</b>		
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
<b>RGB / Component input</b>		
R,G,B format	Vpp / dB	1.0 +3 / -6 (composite)
R-Y, B-Y, Y format:	Vpp / dB	0.7 +3 / -6 (R-Y, B-Y) 1.0 +3 / -6 (Y)
Loop through		Yes
Type		Floating (switchable to non-floating)
Connector		BNC
<b>Y/C (S-VHS)-video input</b>		
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 till 6 (Y-output without notch filter)
Hue range	°	±15

Display Performance		
<b>Raster and picture</b>		
Linearity error		±1 % of picture height
Geometry error		±2 % of picture height
<b>RGB specifications</b>		
Frequency response	KHz/MHz/dB	100 to 10 ±1
<b>CRT Specifications</b>		
Pitch:	mm	0.28 (dot mask)
TV-lines -20 dB		950
Resolution -20dB	MHz	12
Convergence errors (mm)		
Center		0.2
Zone 1		0.3
Rest		0.6

(Zone 1= centered circle with diameter equal to picture height)

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## Specifications - continued

Color temperature settings	Units	CVM 3051 ISH
Factory aligned	K	6500, 3200, 9300
User defined		2 (user-selectable as A and B)
Light output		
Factory alignments (for calibrated position)		
100 % white level	cd/m <sup>2</sup>	90 nit = 90
10 % white level	cd/m <sup>2</sup>	0.7 nit = 0.7
Same light output for all size and scan formats		
Peak white level		180 nit

Optional board specifications		
Adaptive comb decoder		
Color standard		PAL (BG) / NTSC
Enhanced comb mode		
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)
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

<b>Controls</b>		
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

<b>Order information required</b>	<b>Part Number</b>
Monitor type	CVM 3051 ISH
Options, if required	
For slot 1:	D1SH, D2SH or AUD
Other:	VITC, PAL-M, PAL-N, Comb



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