

**CVM 2037**  
**CVM 2051**

## SPECIFICATIONS

### Introduction on the CVM20XX

The CVM20XX is a high performance monitor, available in 2 sizes : 14 V (37 cm) and 20 V (51 cm). The monitor is fully micro-processor controlled.

The CVM20XX is characterized especially by its outstanding raster size and colour temperature stability. Automatic colour temperature alignment is standard equipped (for use with optional THOMA Colour Analyzer and BARCO Light Probe).

### Special features

#### Affordable intelligence

Easy operation and alignment by help of an on-screen display. The CVM20XX has a build-in character generator.

Faster and more accurate picture matching.

The CVM20XX has both a calibrated and preset control memory for all display parameters and control functions. Fast and easy control of monitor walls is the result.

Full remote control.

All display parameters and functions can be controlled remotely. You have the choice of two options: Single Remote Control for simultaneous control of up to 12 monitors, or Multi-Monitor Remote Controller for up to 48 monitors, both CVS/CVM-A/CVM20XX compatible. Monitors can be addressed individually, per group or in total.

Configuration flexibility.

The CVM20XX has an option slot and is fully software driven. Consequently it accepts optional plug-in modules. There is normally an analog component input module in it but it can also be a digital input module.

#### Excellent colour temperature and raster size stability

The AKB-circuitry (Automatic Kinescope biasing) allows you to maintain colour temperature independent of tube-ageing and ambient temperature fluctuations.

The CVM20XX features excellent raster size stability even under extreme brightness levels.

#### Fully modular design

No active components in the mainframe.

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**SPECIFICATIONS (continued)**

**Standard features**

PAL (NOTCH) or NTSC (COMB) or PAL/SECAM decoder

Input configuration :

- 3 coded inputs or 2 coded inputs and 1 external sync. input (loop through and floating)
- RGB(S)
- Y / R-Y / B-Y or Y/C inputs
- audio input

Loudspeaker output

Fast / slow sync time constant

RGB switches / blue only

Size (underscan / overscan)

16/9 and 4/3 aspect ratios

H/V delay and pulse cross

3 standard colour temperatures 3200 K, 6500 K and 9300 K  
2 user pre-selectable colour temperatures A and B

Aperture control

Monochrome switch : colour / monochrome filtered /  
monochrome full bandwidth

Automatic and manual degaussing

Scan failure protection

2 Tally lights

**Options**

Digital D1/D2 interfaces for serial (270 Mbit) and parallel inputs

THOMA Colour Analyzer for automatic colour temperature alignment

BARCO Light Probe for automatic colour temperature alignment

Single Remote Control (simultaneous control of up to 12 monitors)

Multi-Monitor Remote Controller (individual or simultaneous control of up to 48 monitors)

Rack mount kit with slides (one kit for CVM2037, another for CVM2051)

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## SPECIFICATIONS (continued)

### Technical specifications

<b>Mainspower</b>	Line voltage (nom.)	117/220 Vac +15%/-20% autoranging
	Line frequency	48 Hz to 100 Hz
	Power consumption (typ.)	120 W
<b>Scanning</b>	Systems	625 lines / 50 fields / interlaced 525 lines / 60 fields / interlaced
	Color systems	PAL B (notch filter decoder) or NTSC 3.58 (Comb filter decoder) or PAL/SECAM decoder
<b>Display performance</b>	Normal scan	aspect ratio 4/3 blanked scan +1.5%
	Underscan	aspect ratio 4/3 corners in
	Linearity and geometry	≤ 2% of height
	Colour temperatures	6500 K, 3200 K, 9300 K and two user values A and B

Flatness of video amplifiers, measured from input to the cathodes of the CRT at nom. input voltage and in calibrated position. Valid for RGB amplifiers and for decoders in monochrome mode (notch filter switched off) or comb mode (NTSC only), reference 1 MHz :

100 kHz to 5 MHz (0 to 5 MHz)  
Smooth roll off above 5 MHz

### Input specification

Input	Signal/Format	Level	Connector type	
INPUT 1	Composite	1 Vpp +3/-6 dB	2 x BNC + termination switch loop through and floating	
	Non-composite	0.7 Vpp +3/-6 dB		
INPUT 2	Composite	1 Vpp +3/-6 dB	2 x BNC + termination switch loop through and floating	
	Non-composite	0.7 Vpp +3/-6 dB		
INPUT 3 (switchable) or SYNC	Composite	1 Vpp +3/-6 dB	2 x BNC + termination switch loop through and floating	
	Non-composite	0.7 Vpp +3/-6 dB		
	Ext. sync (neg. going)	4 Vpp +6/-20 dB		
R	Red composite	1 Vpp ±6 dB	2 x BNC + termination switch loop through and floating	
	Red non-composite	0.7 Vpp ±6 dB		
R-Y	R-Y non-composite	0.7 Vpp ±6 dB	2 x BNC + termination switch loop through and floating	
C	C	PAL		0.3 Vpp ±6 dB
		NTSC		0.286 Vpp ±6 dB
G	Green composite	1 Vpp ±6 dB	2 x BNC + termination switch loop through and floating	
	Green non-composite	0.7 Vpp ±6 dB		
Y	Y composite	1 Vpp ±6 dB	2 x BNC + termination switch loop through and floating	
	Y non-composite	0.7 Vpp ±6 dB		
B	Blue composite	1 Vpp ±6 dB	2 x BNC + termination switch loop through and floating	
	Blue non-composite	0.7 Vpp ±6 dB		
B-Y	B-Y non-composite	0.7 Vpp ±6 dB	2 x BNC + termination switch loop through and floating	
SYNC	Ext. sync (neg. going)	4 Vpp +6/-15 dB		
AUDIO		1.5 Vpp	XLR 3-pin, asymm., high-imp.	
Return loss on all video connectors		≥40 dB / 5.5 MHz / 75 ohms		

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**SPECIFICATIONS (continued)**

**CRT  
parameters**

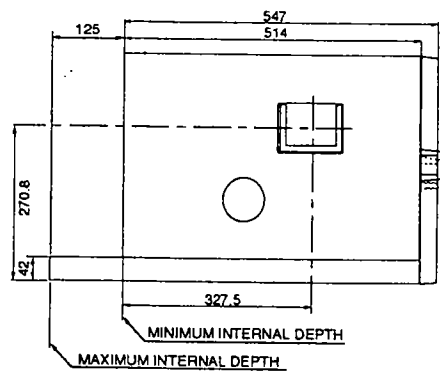
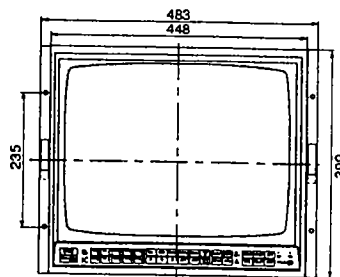
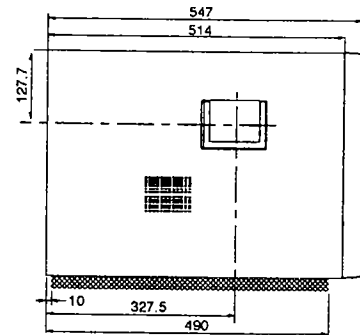
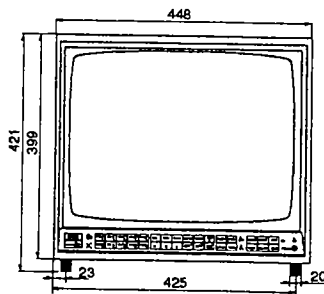
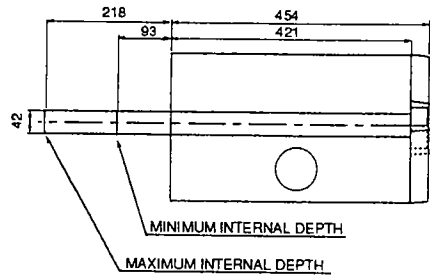
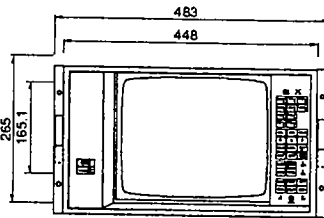
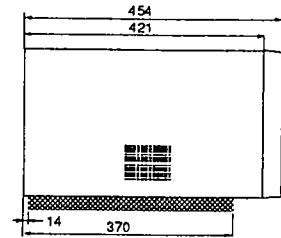
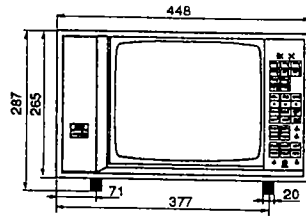
	CVM 2037 IH	CVM 2051IM
CRT SIZE	37 cm / 14"	51 cm / 20"
CRT type	dot in-line	dot in-line
Pitch	0.31	0.43
Phosphors	EBU / ASP	EBU / ASP
Centre resolution (TV lines)	680	700
Max. convergence error		
Centre	0.2 mm	0.2 mm
Zone 1 (typical)	0.3 mm	0.4 mm
Rest	0.6 mm	0.7 mm
Active screen area	mm /inch	mm /inch
Width	266.5 / 10.49	385 / 15.16
Height	200 / 7.78	288.75 / 11.37
Display area	cm <sup>2</sup> / sq.inch	cm <sup>2</sup> / sq.inch
	533 / 82.56	1111.69 / 172.37

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## SPECIFICATIONS (continued)

### Dimensions



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## **INSTALLATION**

### **Visual inspection**

Check for supplied accessories when unpacking the monitor : mains cord and instruction manual.

Before installation of the monitor, inspect for damage that may have occurred in transit. If the monitor was damaged in transit, file a claim with the carrier.

Check if your ac power source voltage corresponds to the appropriate power input voltage for the monitor, noted on the rear side of the monitor.

### **Check input signals**

In order to obtain a correct and well synchronized picture on the screen, first check also if the specifications of your video and sync input signals are in accordance with the specifications or factory settings of the display (colour system and scan frequencies).

### **Positioning the monitor**

The monitor requires a free flow of air around it for cooling purposes. For this reason, covers should never be placed on or around the monitor and the ventilation grilles should never be blocked. The monitor should never be exposed to direct heat sources or excessive dust. To prevent fire or shock hazard, do not expose this appliance to moisture.

Because of its design, the picture tube is sensitive to magnetic fields. Therefore, the monitor should never be placed in the vicinity of magnets or sources of magnetic disturbances, such as loudspeakers, transformers, heavy power lines or electric motors.

The monitor contains a demagnetisation circuit which counteracts the effect of the earth magnetism each time the monitor is switched on. If the monitor is moved, some colour impurities may occur. You can activate the demagnetisation circuit by pressing the DEG switch (the display must be switched on).

Because of the effect of this circuit, it is advisable to keep all items carrying magnetic information away from the monitor, for example music cassettes, magnetic tapes, floppy discs, magnetically coded cards.

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**OUTSIDE TERMINALS & SWITCHES**

**POWER ON / OFF** (on front side)

Push-push button to turn the monitor on (pushed in) and off (released).

**LINE**

Line input.

**CAUTION** : before connection, check for correct line voltage as noted on the rear side of the monitor.

**FUSE**

Fuse holder.

For the 120 Vac range, use a 4A SS fuse (6 x 32 mm, 4A, slow blowing).

For the 220 Vac range, use a 2AT fuse (5 x 20 mm), 2A, slow blowing.

**INPUT 1 INPUT 2 INPUT 3 / SYNC**

Looped through composite video inputs (BNC type).

In case external sync is selected, INPUT 3 is for composite sync input.

Each input is provided with an internal 75 ohms termination resistor. Set the 75 ohms switch in upward position for termination.

**TALLY**

9-pin female receptacle for remote control of the tally lights on the front side of the monitor. The connection is CVS compatible.

