

CCTV Colour Monitors

User's Manual

**CMCC1020
CMCC1420
CMCC1725
CMCC2120**

Data and design subject to change
without notice. / Supply subject to
availability.

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1 Important Safeguards

1.2 Product Safety and Electromagnetic Compatibility (EMC)

This product is designed for use in general CCTV applications in living, business or industrial environments. Please contact the supplier of this device before using it in medicinal and/or intrinsically-safe applications or in an industrial EMC environment.

The product must be installed according to the currently valid installation regulations for EMC to guarantee the designed use and to prevent EMC problems.

1.3 Manufacturer's Conformity Declaration



The manufacturer declares that the device supplied with this manual is compliant with the essential protection requirements of the EMC directive 89/336.

Beyond that, it is compliant with the requirements of standards

EN 55022:1998

EN 61000-3-2:2000

EN 61000-3-3:1995

EN 50130-4: 1998 (EN 61000-4-2,3,4,5,6,8,11)

In accordance with the above EU Directive, the EU Declaration of Conformity can be made available to the authorities concerned by:

Siemens Gebäudesicherheit GmbH & Co. oHG,

Security

Siemensallee 84

76187 Karlsruhe

2 FCC Information

This equipment has been tested and found to comply with the limits for a class B digital device , pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with

the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Shielded interface cables and A.C. power cord, if any, must be used in order to comply with emission limits.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

3 Safety Precautions

- 1 Operate this unit only from the type of power source indicated on the label.
- 2 Do not block or cover ventilation openings on the back or bottom of the monitor cabinet.
- 3 Do not place this monitor near a radiator or heating vent.
- 4 Do not push objects of any kind through cabinet openings. This may result in fire or electrical shock.
- 5 Before adding attachments always ask a service technician to perform routine safety tests to determine that equipment is in safe operating condition. Ground potential tests should be part of the routine safety check made by the service technician. Do not place monitor on an unstable cart, stand, or shelf where it may fall and injure personnel or damage equipment.
- 6 Route power cords so that they cannot be walked upon or tripped over. Do not allow anything to rest on the power cord.
- 7 Do not install monitor in wet areas, or where it may be exposed to rain or water. Do not spill liquid of any kind on the unit.
- 8 Unplug the power cord from the unit before cleaning the display. Use only a damp cloth. Do not use alcohol, spirits, or ammonia to clean the display. **DO NOT ATTEMPT TO CLEAN THE INTERIOR OF THIS UNIT - THIS ACTION MUST BE PERFORMED BY THE SERVICE TECHNICIAN AS REQUIRED DURING NORMAL MAINTENANCE.**
- 9 Refer all servicing to qualified service personnel. **REMOVAL OF BACK COVER BY UNAUTHORIZED PERSONNEL MAY EXPOSE THE USER TO DANGEROUS VOLTAGES OR OTHER HAZARDS.**
- 10 Unplug the unit immediately and notify the service technician.
 - a. If liquid has been spilled into the display or the display has been exposed to rain or water.
 - b. If the unit has been dropped or the cabinet damaged.
 - c. If fuses continue to blow.
 - d. If the power cord is damaged or frayed.
 - e. If a distinct change from normal operation is apparent.
- 11 When replacement parts are required, be sure that the service technician uses components specified by the manufacturer, which have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electrical shock or other hazards.
- 12 Upon completion of any service or repairs, ask the technician to perform safety check to determine that the equipment is in safe operating condition.



Warning: Serious shock hazards exist within the covers of this monitor. Do not open the covers under any circumstances, there are no user serviceable components inside.

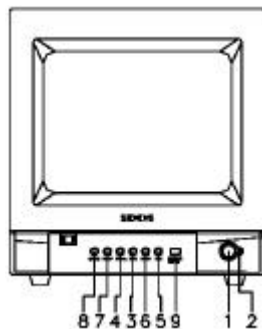
4 General Features

- Compatible with: PAL / NTSC System
- Scanning System: NTSC 15750 / 60 Hz or PAL 15625 / 625 Lines, 50 Hz
- Video Input Signal: CVBS
- Input Power: 100 to 240 V AC

4.1 CMCC1020 FRONT AND REAR VIEW

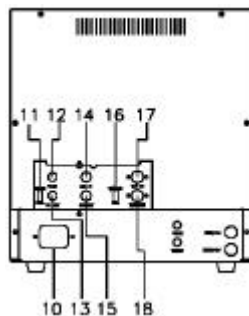
Front View

- 1 Power On/Off Switch
- 2 Power-On Indicator
- 3 Contrast Adjustment
- 4 Brightness Adjustment
- 5 Tint (NTSC only)
- 6 Colour Adjustment
- 7 Sharpness Adjustment
- 8 Volume adjustment
- 9 CVBS or Y/C Selector Switch



Rear View

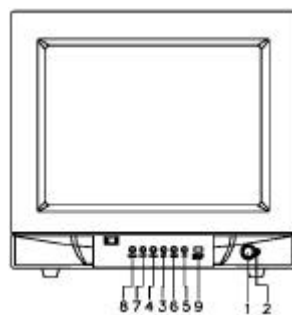
- 10 Power Inlet
- 11 Video Load Impedance Switch
- 12 Video Input : BNC Connector
- 13 Video Output : BNC Connector
- 14 Audio 1 Input : RCA Jack
- 15 Audio 1 Output : RCA Jack
- 16 Y/C Load Impedance Switch
- 17 Y/C Input 4 Pin DIN Connector
- 18 Y/C Output 4 Pin DIN Connector



4.2 CMCC1420 FRONT AND REAR VIEW

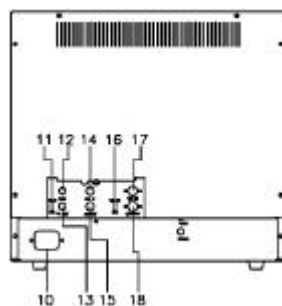
Front View

- 1 Power On/Off Switch
- 2 Power-On Indicator
- 3 Contrast Adjustment
- 4 Brightness Adjustment
- 5 Tint (NTSC only)
- 6 Colour Adjustment
- 7 Sharpness Adjustment
- 8 Volume adjustment
- 9 CVBS or Y/C Selector Switch



Rear View

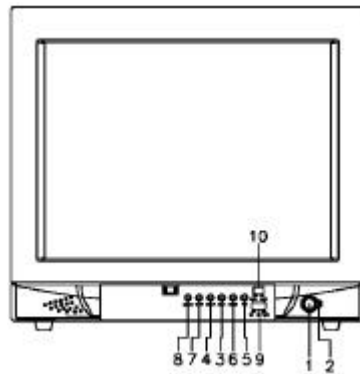
- 10 Power Inlet
- 11 Video Load Impedance Switch
- 12 Video Input : BNC Connector
- 13 Video Output : BNC Connector
- 14 Audio 1 Input : RCA Jack
- 15 Audio 1 Output : RCA Jack
- 16 Y/C Load Impedance Switch
- 17 Y/C Input 4 Pin DIN Connector
- 18 Y/C Output 4 Pin DIN Connector



4.3 CMCC1725 FRONT AND REAR VIEW

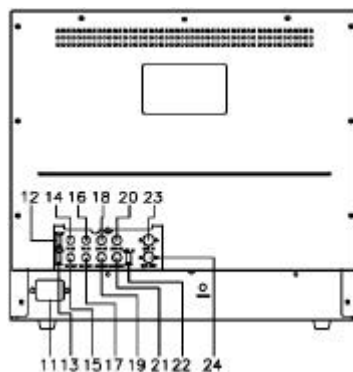
Front View

- 1 Power On/Off Switch
- 2 Power-On Indicator
- 3 Contrast Adjustment
- 4 Brightness Adjustment
- 5 Tint (NTSC only)
- 6 Colour Adjustment
- 7 Sharpness Adjustment
- 8 Volume adjustment
- 9 V1 CVBS or V2 CVBS or Y/C Selector Switch
- 10 Audio 1 / Audio 2 Select Switch



Rear View

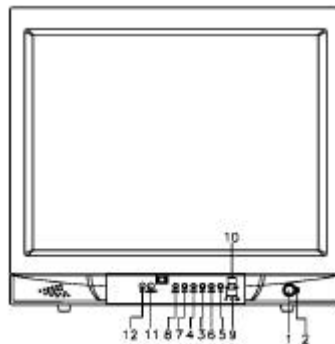
- 11 Power Inlet
- 12 Video 1 Load Impedance Switch
- 13 Video 2 Load Impedance Switch
- 14 Video 1 Input : BNC Connector
- 15 Video 1 Output : BNC Connector
- 16 Video 2 Input : BNC Connector
- 17 Video 2 Output : BNC Connector
- 18 Audio 1 Input : RCA Jack
- 19 Audio 1 Output : RCA Jack
- 20 Audio 2 Input : RCA Jack
- 21 Audio 2 Output : RCA Jack
- 22 Y/C Load Impedance Switch
- 23 Y/C Input 4 Pin DIN Connector
- 24 Y/C Output 4 Pin DIN Connector



4.4 CMCC2120 FRONT AND REAR VIEW

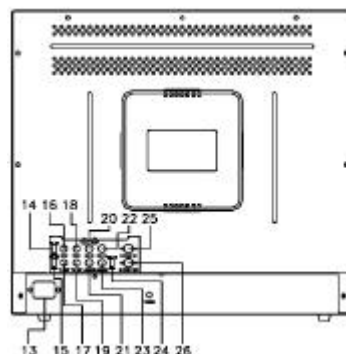
Front View

- 1 Power On/Off Switch
- 2 Power-On Indicator
- 3 Contrast Adjustment
- 4 Brightness Adjustment
- 5 Tint (NTSC only)
- 6 Colour Adjustment
- 7 Sharpness Adjustment
- 8 Volume adjustment
- 9 V1 CVBS or V2 CVBS or Y/C Selector Switch
- 10 Audio 1 / Audio 2 Select Switch
- 11 Underscan Select Switch
- 12 16-9 Screen Select Switch



Rear View

- 13 Power Inlet
- 14 Video 1 Load Impedance Switch
- 15 Video 2 Load Impedance Switch
- 16 Video 1 Input : BNC Connector
- 17 Video 1 Output : BNC Connector
- 18 Video 2 Input : BNC Connector
- 19 Video 2 Output : BNC Connector
- 20 Audio 1 Input : RCA Jack
- 21 Audio 1 Output : RCA Jack
- 22 Audio 2 Input : RCA Jack
- 23 Audio 2 Output : RCA Jack
- 24 Y/C Load Impedance Switch
- 25 Y/C Input 4 Pin DIN Connector
- 26 Y/C Output 4 Pin DIN Connector



4.5 Connections and Controls

4.5.1 Connections

Power Input

Connect the supplied AC power cord to the AC input connector. ENSURE THAT THE SYSTEM IS EARTHED! Ensure all connections are completed before applying power to the monitor.

Video Input and Loop-through Terminals

Input terminals and loop-through terminals are for the input and loop through of one composite video signal. The monitor IMPEDANCE SWITCH must be switched to Hi-Z when a 75 Ω terminated device is connected to the output.

4.5.2 Controls

Power Switch

Press to turn the monitor ON; press again to turn the monitor OFF.

Power Indication

The green LED indicates when the power is turned ON.

Contrast Control

Turn the control in the appropriate direction to adjust the picture contrast.

Brightness Control

Turn the control in the appropriate direction to adjust the picture brightness.

Tint Control

Turn the control in the appropriate direction to adjust the picture tint on NTSC systems only.

Colour Control

Turn the control in the appropriate direction to adjust the picture color.

Sharpness Control

Turn the control in the appropriate direction to adjust the sharpness of the picture.

Audio Volume Control

Manual adjustment of the audio volume.

Video / S-Y/C Selector Switch

Manual selection of the input between composite video or S-Y/C.

Audio 1 / Audio 2 Selector Switch (CMCC1725 & CMCC2120)

Manual selection of the audio inputs.

Under scan Selector Switch (CMCC2120)

For the selection of the complete video picture.

16:9 Aspect Selector Switch (CMCC2120)

For the selection of 16:9 aspect ratio when required.

5 Operating Instructions

- 1 Place the monitor on a flat and firm surface (see Safety Precautions on page 20).
- 2 This monitor can be operated between 100 to 240 V AC.
- 3 Plug the power cord into AC outlet on the wall.
- 4 Link the A/V terminal from your devices into the audio/video in RC A/BNC connectors of the monitor.
- 5 Turn your device system power switch ON. then turn the monitor power switch ON. The power indicator will be ON at this moment.
- 6 Allow about 30 seconds for the display tube to warm up, then the image should appear on the screen.
- 7 The monitor will detect the frequency of the input signal automatically, and the image may be adjusted through the function VR on front control panel.
- 8 Adjust the user controls to optimise picture quality.

6 Package Contents

Item	Qty
Monitor	1
User's Manual	1
Mains cable	1

