BOSCH

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42RTC 42-inch High-performance LCD Monitor

▸ **42 in. wide screen (16:9) LCD display**

▸ **1366 x 786 resolution (WXGA)**

▸ **Contrast ratio: 800:1**

▸ **Picture-In-Picture (PIP) and Picture-And-Picture (PAP)**

▸ **Looping BNC output**

▸ **RGB, DVI, and HDMI interface**

▸ **Slim, space-saving design**

▸ **Removable desk stand**

▸ **Built-in speakers**

▸ **Optional wall mount**

The 42RTC is a 42-inch, high-resolution WXGA color monitor that is ideal for use with both digital video recorders (DVR) and PC applications. The monitor features a color liquid crystal display (LCD) flat screen panel with horizontal and vertical viewing angles of 178°, which provides comfortable, clear viewing whether you place it on a desktop or mount it to a wall.

Functions

Excellent image quality

The 42RTC monitor automatically adapts to the input resolution of the incoming video signal (up to 1366 x766 pixels). The monitor's analog RGB input easily accommodates the widespread use of PCs in today's security surveillance systems. Its high contrast ratio (800:1) and high brightness rating (500 cd/m2) offer excellent color accuracy and imaging for easier viewing and interpretation of images. The panel refreshes every eighteen milliseconds, so you get crisp, clear images with less smearing – and less image "ghosting" in fast-motion video.

Key benefits of LCD monitors

Long-life fluorescent backlights help avoid luminance degradation on the LCD monitor – so it easily maintains its brightness level over time. This consistent brightness is an advantage over aging CRT-type monitors that become progressively dimmer; and provides a sharp display image, without the constant flickering that you typically see in CRT monitors. This allows you to use the LCD monitor longer without eyestrain or excessive fatigue.
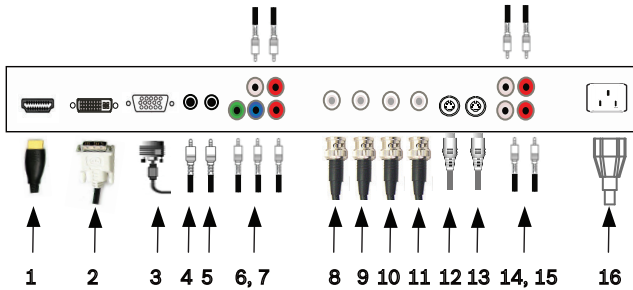
Additional advantages

The 42RTC also features:

- Low power consumption.
- Automatic adaptation to fluctuating electricity loads while protecting your circuitry.
- Standard 130 mm mounting holes to easily accommodate a range of wall mounts.
- User-friendly, on-screen menus and front panel controls for adjusting monitor display parameters to your specific preferences.

Certifications and Approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC standards

Installation/Configuration Notes

	Port/Connector		Port/Connector
1	HDMI in	9	AV 1 out (BNC)
2	DVI in	10	AV 2 in (BNC)
3	RGB in	11	AV 2 out (BNC)
4	PC stereo in	12	S-video in
5	Audio out	13	S-video out
6	Component Y, Pb, Pr in	14	AV 2 audio L/R in
7	Component audio L/R in	15	AV 1, S-video audio L/R in
8	AV 1 in (BNC)	16	AC power in

Technical Specifications

Electrical

Rated Voltage	100 to 230 VAC, 50/60 Hz
Voltage Range	90 to 264 VAC, 50/60Hz
Power at Rated Voltage	260 W operation 10 W standby
LCD Panel	Active Matrix TFT LCD
Screen Size (H x V)	930.3 x 523 mm (36.6 x 20.6 in.)
Viewable Picture Area	42 in. (106.7 cm) measured diagonally
Pixel Pitch (H x V)	0.227 x 0.681 mm (0.01 x 0.03 in.)
Resolution	1366 x 768 pixels
Aspect Ratio	16:9
Display Colors	8-bit interface; 16.7 million colors
Response Time	< 18 ms
Backlight	Twenty (20) cold cathode fluorescent tubes, rated life 50,000 hours

Optical Characteristics

Luminance	500 cd/m^2, anti-glare, hard-coating (3H) treatment
Contrast Ratio (CR)	800:1
Viewing Angle	178° horizontal, 178° vertical @ CR ≥ 10

Input Signal

Video	Two (2) inputs: 1.0 Vp-p (0.5–1.5 Vp-p), automatic switching from 75Ω unbalanced termination to Hi-Z with passive loop-through operation
S-Video	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75Ω termination
Component	Y, Pb, Pr, Sound L/R
Digital Inputs	DVI D, HDMI, RGB
Audio Output	Speakers: two (2), 2 W

Controls

Front Panel	Push-buttons
Source	Selects input
Menu	Selects on-screen display (OSD) up cursor, down cursor/auto adjust, left cursor, right cursor
Power	On/Off

On-Screen Display

RGB	Custom, Picture/Sound, PIP, and Setup menus.

Indicators

LED	Power On (green) Standby/Suspend/Active Off (flashing red) Unsupported Mode (green) Power Off (red)

HDMI/DVI/RGB Inputs

Analog RGB	0.7 Vp-p (0.5–1 Vrms)	
Picture-in-Picture	Video 1, Video 2, S-video	
DVI/RGB Timing Modes	**Resolution**	**V-freq (Hz)**
	640 x 480	60, 72, 75
	800 x 600	60, 72, 75
	1024 x 768	60, 70, 75
	1280 x 1024	60, 75
	1366 x 768	60
Component Timing	**Resolution**	**V-freq (Hz)**
	640 x 480 (480i)	60
	720 x 576 (576i)	50
	640 x 480 (480P)	60
	720 x 576 (576P)	50
	1280 x 720 (720P)	50, 60
	1920 x 1080 (1080i)	50, 60
	1920 x 1080 (1080P)	50, 60

HDMI Timing	**Resolution**	**V-freq (Hz)**
	640 x 480 (480P)	60
	720 x 576 (576P)	50
	1280 x 720 (720P)	50, 60
	1920 x 1080 (1080i)	50, 60
	1920 x 1080 (1080P)	50, 60
Audio Input	1.0 V line level, stereo	
Audio Output	Loop-through line level (PC only) Speakers: two (2), 2 W	

Connectors

Video	Four (4) BNC type: (2 in, 2 out)
RGB	One (1) 15-pin D-sub
Y/C (S-Video)	Two (2) (1 in, 1 out)
Component	Y, Pb, Pr
Audio	Four (4) RCA type (2 stereo inputs) One (1) PC stereo input One (1) looping output, 1/8 in. mini phono plug
HDMI	One (1)
Power Cord	Two (2) 3-wire with a grounded plug, 1.8 m (6 ft) long, one (1) with a European/Continental plug type and one (1) with a U.S. plug type

Mechanical

Cabinet	Material: ABS Finish: black Wall mounting compatible with standard bracket, (130 mm x 130 mm) x 634 mm, M8 x 16 mm screws

Dimensions

Monitor with Stand (W x H x D)	1065 x 725 x 305 mm (41.9 x 28.5 x 12 in.)
Monitor Only (W x H x D)	1065 x 657 x 120 mm (41.9 x 25.9 x 4.7 in.)
Weight	Monitor with base: 35 kg (77.2 lbs) Monitor only: 31 kg (68.3 lbs)

Environmental

Operating Temperature	10℃ to 40℃ (50℉ to 104℉)
Storage Temperature	-20℃ to 50℃ (-4℉ to 122℉)
Humidity	Max. 90%, non-condensing

Ordering Information

42RTC 42-inch High-performance LCD Monitor	**42RTC**

Accessories

ST660 Universal Tilt Wall Mount Tilt wall mount for an LCD 32 in. to 60 in., black	**ST660**